

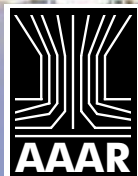


10th International Aerosol conference (IAC)

September 2-7, 2018

America's Center | St. Louis, Missouri

FINAL PROGRAM



Hosted by the
American Association for Aerosol Research

THE LATEST IN BLACK CARBON AND BIOAEROSOL INSTRUMENTATION



SP²XR

SINGLE PARTICLE SOOT PHOTOMETER
EXTENDED RANGE

ACCURATE, REAL TIME, SIZE RESOLVED SINGLE PARTICLE MEASUREMENTS OF BLACK CARBON

The SP2-XR is one of two (SP2-D, Droplet Measurement Technologies) instruments in the world that directly measure black carbon in individual aerosol particles. The SP2-XR's unique design is compact and portable making it an ideal monitoring device. Its high sensitivity, fast response and specificity to absorbing aerosols along with its straightforward data analysis make it the premier instrument for researchers interested in black carbon.

APPLICATIONS:

- » Atmosphere and climate research
- » Monitoring networks
- » Air quality
- » Biomass burning
- » Combustion emissions

WIBS-NEO

WIDEBAND INTEGRATED BIOAEROSOL SENSOR

NEW ELECTRONICS OPTION PROVIDES DETAILED INFORMATION ON ATMOSPHERIC, AIRBORNE BACTERIA, MOLDS, AND POLLEN.

The Wideband Integrated Bioaerosol Sensor New Electronics Option provides highly sensitive measurements of mold and other bioaerosols. The instrument uses a UV xenon source to excite fluorescence in individual particles. Unlike UV lasers, the UV xenon source allows for the precise selection of particular excitation bands. These wavebands have been selected to optimize detection of common bioaerosols (tryptophan and NADH.)

APPLICATIONS:

- » Bioaerosol research (mold, pollen, fungi)
- » Air quality studies
- » Health effects research
- » Suitable for airborne or ground-based sampling

TO LEARN MORE ABOUT THE WIBS-NEO OR SP2-XR,
STOP BY BOOTH 22 OR CONTACT



10th International Aerosol Conference (IAC)

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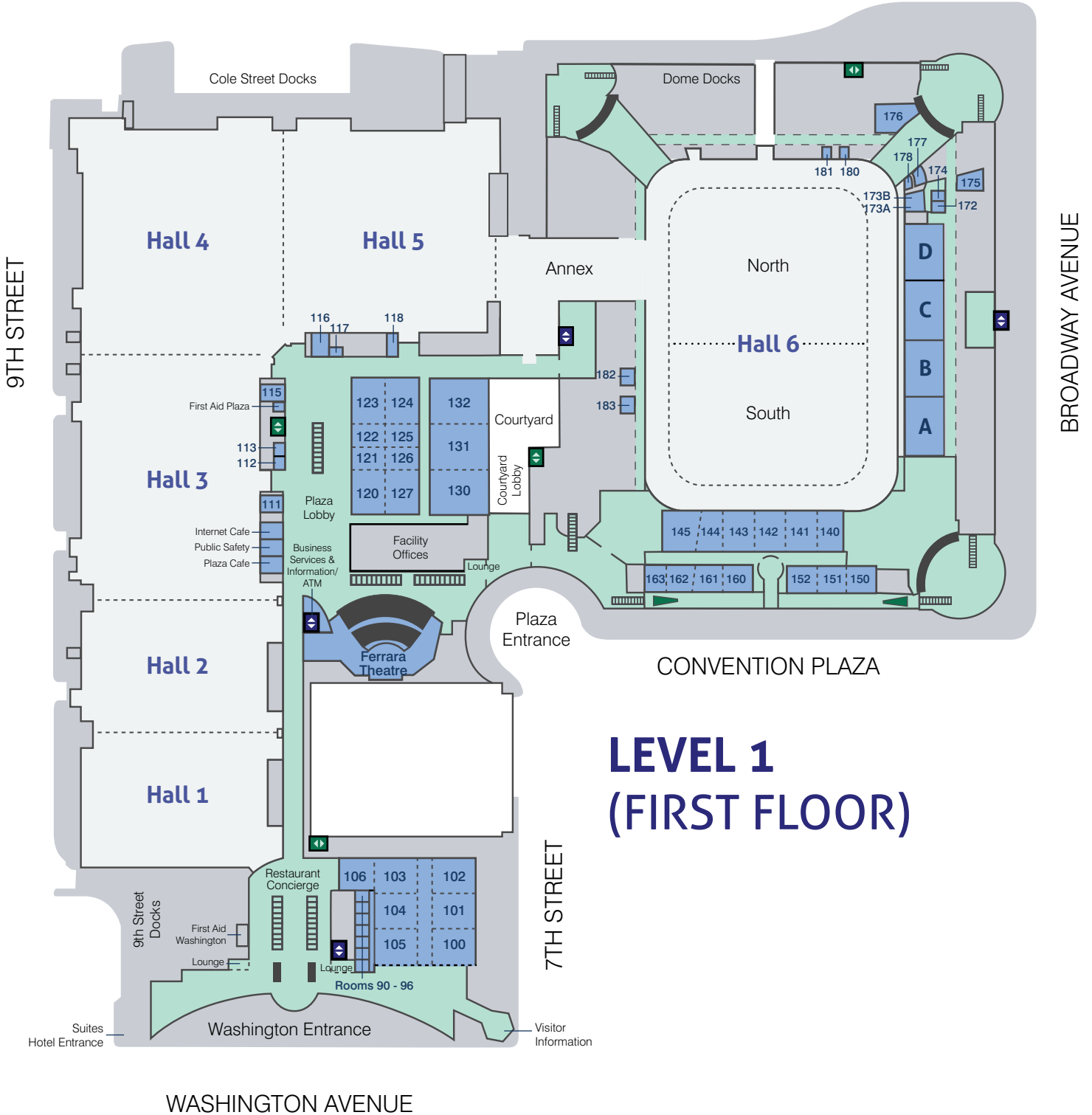
America's Center | St. Louis, Missouri

TABLE OF CONTENTS

Floorplan	2
Future Meetings	4
Sponsors	6
Conference Committees	7
International Aerosol Research Assembly	8
American Association for Aerosol Research	9
Important Conference Information	10
AAAR Committee Meetings	13
2018 Travel Grant Awardees	14
2018 Student Assistants	15
IAC Schedule-At-A-Glance	17
Exhibitors	24
Conference Program	29
Author Index	137

FLOOR PLANS

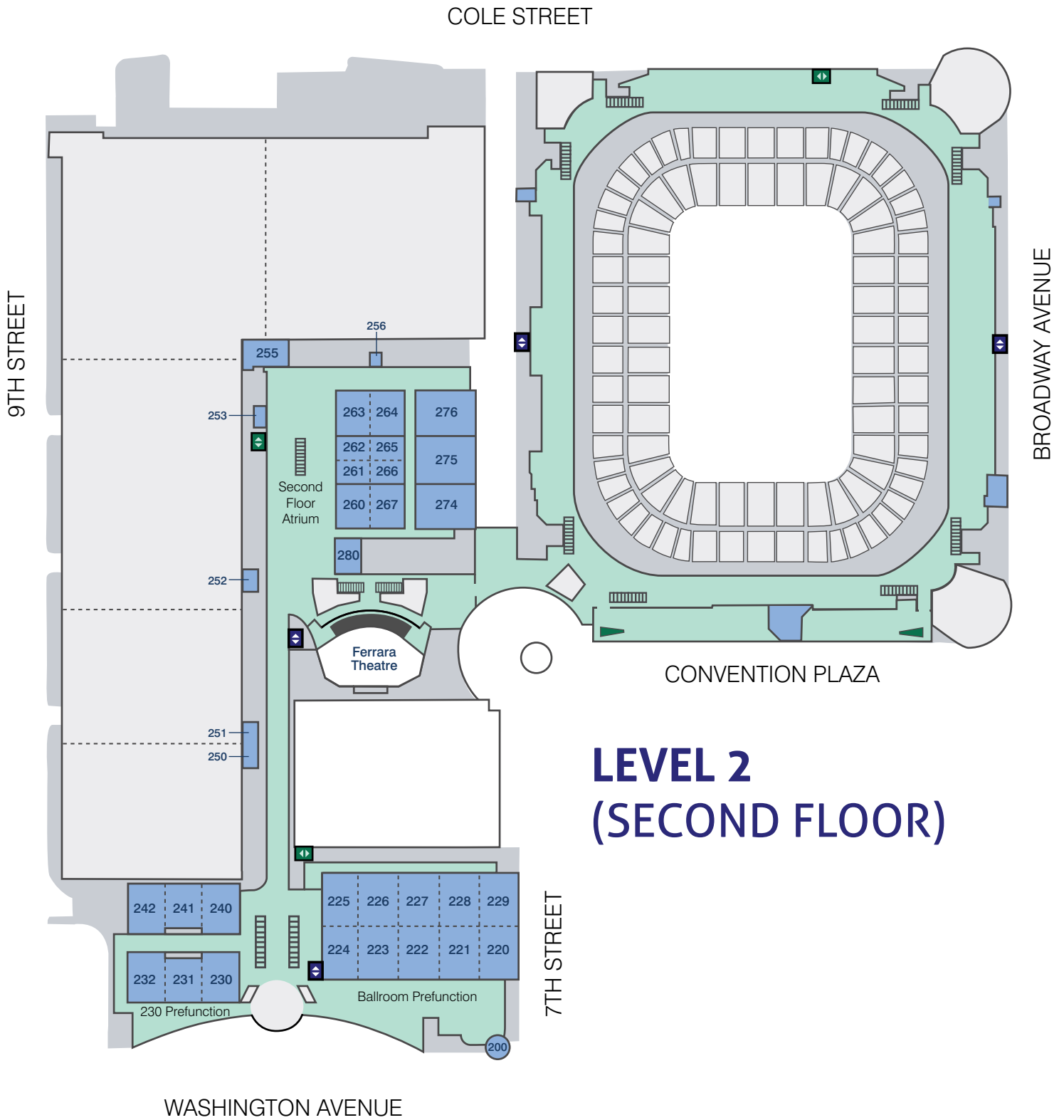
COLE STREET



LEVEL 1 (FIRST FLOOR)

WASHINGTON AVENUE

FLOOR PLANS (cont)

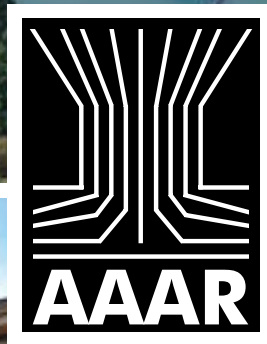


FUTURE MEETINGS



AAAR 37TH ANNUAL CONFERENCE

October 14-18, 2019
Oregon Convention Center
Portland, Oregon



AAAR 38TH ANNUAL CONFERENCE

October 5-9, 2020
Raleigh Convention Center
Raleigh, North Carolina

FUTURE MEETINGS (cont)

EUROPEAN AEROSOL CONFERENCE 2019

August 25-30, 2019
Gothenburg, Sweden



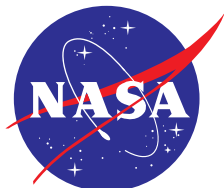
EUROPEAN AEROSOL CONFERENCE 2020

August 30-September 4
Aachen, Germany



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The Ultimate Measurements

Gold Sponsor



Bronze Sponsor



Supporting Sponsors



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Association
for Aerosol
Research

Contributing Sponsors

2B Tech



MDPI



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Conference Chair

Mansoo Choi
President, IARA

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China

Jose L. Castillo
Spain

Ian Colbeck
UK

Richard Flagan
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France

Jiming Hao
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Gerhard Kasper
Germany

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Markku Kulmala
Finland

Kikuo Okuyama
Japan

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David Pui
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S. N. Tripathi
India

C. J. Tsai
Taiwan

Roberta Vecchi
Italy

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Technical Program Co-Chair

Brent Williams
Washington University
in St. Louis
Technical Program Co-Chair

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Tropospheric Research
Germany

Yifang Zhu
UCLA

Hiromu Sakurai
National Institute of
Advanced Industrial Science
and Technology, Japan

Maria Cristina Facchini
Institute of Atmospheric
Sciences and Climate, Italy

Abstracts Management

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Tutorial Chair

Rajan Chakrabarty

Local Arrangements Committee

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Richard Axelbaum

Rudy Husar

Exhibits

Julie Stone, *Chair*

Tyler Beck

Development Committee

Murray Johnston, *Chair*

Richard Axelbaum

Tyler Beck

Pratim Biswas

Sheryl Ehrman

Sonia Kreidenweis

Allen Robinson

Anthony Wexler

Meet Aerosol Pioneer

Jun Wang, *Chair*

AST Grand Challenge Committee

Chris Sorenson, *Chair*

Richard Flagan

David Pui

INTERNATIONAL AEROSOL RESEARCH ASSEMBLY

(www.iara.org)



The International Aerosol Research Assembly (IARA) is an organization consisting of national, regional and special interest aerosol research associations. IARA is to promote scientific knowledge and cooperation in the field of aerosol research internationally, to select a host organization for the international aerosol conference held every four years, to recognize prominent aerosol scientists with the Fuchs memorial award every four years and the International Aerosol Fellow award every two years. IARA is guided by a Board consisting of representatives from each member association and a leadership team elected by the Board.

The International Aerosol Research Assembly (IARA) was first discussed at the First International Aerosol Conference in Minneapolis, MN, USA in 1984 and the Assembly was formally organized at the Second International Aerosol Conference in West Berlin, Germany, in 1986. The founding members were American Association for Aerosol Research (AAAR), Gesellschaft fuer Aerosol Forschung (GAeF) and the Japan Association for Aerosol Science and Technology (JAASST).

The Following are Member Associations of IARA:

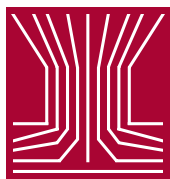
- Aerosol Society (UK and Ireland) (AS)**
- American Association for Aerosol Research (AAAR)**
- Association Française d'Etudes et de Recherches sur les Aérosols (ASFERA)**
- Chinese Association of Aerosol Science & Technology (CAAST)**
- Finnish Association for Aerosol Research (FAAR)**
- Gesellschaft für Aerosolforschung (GAeF)**
- Hellenic Association for Aerosol Research (HAAR)**
- Hungarian Aerosol Society (HAS)**
- Indian Aerosol Science and Technology Association (IASTA)**
- Israeli Association for Aerosol Research (IAAR)**
- Italian Aerosol Society (IAS)**
- Japan Association of Aerosol Science and Technology (JAASST)**
- Korean Association for Particle and Aerosol Research (KAPAR)**
- Nordic Society for Aerosol Research (NOSA)**
- Spanish Association for Research on Aerosol Science and Technology (AECyTA)**
- Taiwan Association for Aerosol Research (TAAR)**

The Following is the Current Leadership Team for the IARA:

- President* | **Professor Mansoo Choi** | KAPAR
- Vice President* | **Professor Pratim Biswas** | AAAR
- Secretary* | **Professor Nikolaos Michalopoulos** | HAAR

AMERICAN ASSOCIATION FOR AEROSOL RESEARCH

(www.aaar.org)



ORGANIZATIONAL MEMBERS

Aerodyne Research Inc.
www.aerodyne.com

Dekati Ltd.
www.dekati.com

Magee Scientific Co.
www.mageescientific.com

Particle Instruments LLC
www.ParticleInstruments.com

TSI Incorporated
www.tsi.com

URG Corp.
www.urgcorp.com

Kanomax
www.Kanomax-usa.com

2017– 2018 AAAR BOARD OF DIRECTORS

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Murray Johnston | *Vice President*

Andrea Ferro | *Vice President Elect*

Leah Williams | *Treasurer*

Faye McNeill | *Secretary*

Amy Sullivan | *Treasurer Elect*

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Cari Dutcher

Allen Goldstein

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Alexander Laskin

Christine Loza

Jordan Peccia

Timothy Raymond

Jason Surratt

IMPORTANT CONFERENCE INFORMATION

REGISTRATION HOURS

Exhibit Hall 5 Lobby — Level 1	
Saturday, September 1	6:00 PM – 7:30 PM
Sunday, September 2	7:00 AM – 6:00 PM
Monday, September 3	7:00 AM – 7:00 PM
Tuesday, September 4	7:00 AM – 6:00 PM
Wednesday, September 5	7:00 AM – 1:00 PM
Thursday, September 6	7:00 AM – 6:00 PM
Friday, September 7	7:00 AM – 1:00 PM

EXHIBIT HOURS

Exhibit Hall 5	
Sunday, September 2	
Set-Up	12:00 Noon – 6:00 PM
Monday, September 3	
Exhibits Open	9:15 AM – 4:00 PM
Welcome Reception	6:00 PM – 8:00 PM
Tuesday, September 4	
Exhibits Open	9:15 AM – 4:00 PM
Reception	6:00 PM – 8:00 PM
Wednesday, September 5	
Exhibits Open	9:15 AM – 12:00 Noon
Thursday, September 6	
Exhibits Open	9:15 AM – 3:45 PM
Move Out	3:45 PM – 8:00 PM

PLATFORM SESSIONS

A platform session is based on a submitted and approved abstract. Each oral presentation is limited to **15 minutes**, including time for questions and should be accompanied by PowerPoint visuals. No other visual equipment will be provided. There will be a presentation preview/speaker ready room, which is **Room 280** of the America's Center. **All speakers must** visit the speaker ready room the day prior to their presentation to load their PowerPoint file onto the conference computer system.

POSTER SESSIONS & VIEWING TIMES

Exhibit Hall 5	
Sunday, September 2	
Posters Set-Up	2:00 PM – 6:00 PM
Monday, September 3	
Posters Open	9:15 AM – 4:00 PM
Technical Session 4 (First Poster Session)	6:15 PM – 8:30 PM (During the Welcome Reception)
Tuesday, September 4	
Posters Open	9:15 AM – 4:00 PM
Technical Session 7 (Second Poster Session)	6:15 PM – 8:30 PM (With Reception)
Wednesday, September 5	
Posters Open	9:15 AM – 12:00 Noon
Thursday, September 6	
Posters Open	9:15 AM – 3:45 PM
Technical Session 10 (Third Poster Session)	11:45 AM – 1:15 PM (During Box Lunch for All)
Dismantle Posters	3:45 PM – 5:00 PM

A poster in the poster session is based on a submitted and approved abstract. The size of a poster **cannot** exceed **44" wide by 45" tall**. Posters will be located in **Exhibit Hall 5** of the America's Center. There are three poster sessions during which authors will present their posters according to the scheduled sessions and will be available for discussions. *Posters are available for viewing throughout the conference at the times indicated above.*

INSTRUCTIONS TO POSTER PRESENTERS

Posters should be placed on the assigned display boards between the hours of **2:00 PM – 6:00 PM** on **Sunday, September 2**. They should be removed at 3:45 PM and no later than **5:00 PM** on **Thursday, September 6**. All posters not removed by 5:00 PM on Thursday will be discarded.

WELCOME RECEPTION

Monday, September 3	6:15 PM – 8:30 PM
----------------------------	-------------------

This is your opportunity to meet and greet the exhibitors. Representatives from well-known and respected corporations are happy to discuss their products and talk with you about the latest in aerosol technology and advances in the field. The reception will be held in **Exhibit Hall 5** of the America's Center.

AAAR ANNUAL BUSINESS MEETING

Thursday, September 6	5:30 PM – 6:30 PM
------------------------------	-------------------

This year the AAAR Annual Business Meeting takes place on Thursday evening, **September 6**. This important session provides an overview of the of AAAR today and tomorrow. During this meeting, the ceremonial passing of the gavel will mark the transfer of leadership responsibility from **Tyler Beck** to **Murray Johnston**.

AAAR WORKING GROUP MEETINGS

Monday, September 3	
----------------------------	--

Working Group Meetings 1	5:15 PM – 6:15 PM
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Tuesday, September 4	
-----------------------------	--

Working Group Meetings 2	5:15 PM – 6:15 PM
--------------------------	-------------------

Working Groups play key roles in planning the technical content of future AAAR conferences. Working Group Meetings will take place on **Monday, September 3** and **Tuesday, September 4**. All AAAR members and students are encouraged to attend Working Group Meeting(s) corresponding to their research interests. **Please refer** to the **Schedule-at-a-Glance** for topics and specific meeting times.

AMERICANS WITH DISABILITIES ACT (ADA) ACCOMMODATIONS

AAAR will use its best efforts to provide reasonable accommodations for IAC attendees with disabilities. **Please contact** the registration manager at the **IAC Registration Desk** if you need assistance.

CM POINTS

American Board of Industrial Hygiene

The CM point approval process for **Category 4** education events has been discontinued. Diplomates determine their own CM credit. All affected CM documents were updated. (*Dec. 2011-Feb. 2012*).

For more information on the American Board of Industrial Hygiene and CM points, please visit **www.abih.org**.

AWARD PRESENTATIONS

Join us in honoring the recipients of the following awards, which will be presented immediately after various plenary sessions:

- ▶ International Aerosol Fellows
- ▶ AAAR Fellows
- ▶ Sheldon K. Friedlander Award
- ▶ Nikolai Albertovich Fuchs Memorial Award
- with Reception
- ▶ Smoluchowski Award
- ▶ Schmauss Award
- ▶ GAeF PhD Award
- ▶ Kenneth T. Whitby Award
- ▶ David Sinclair Award
- ▶ Thomas T. Mercer Joint Prize
- ▶ AS&T Outstanding Paper Award
- ▶ AS&T Outstanding Reviewer Award
- ▶ Fissan-Pui-TSI Award
- ▶ Student Poster Competition Awards
- ▶ Fine Particle Art Prizes
- ▶ Student and Scholar Best Poster Prizes

Please refer to the **Schedule-at-a-Glance** for the specific award presentation times.

SPEAKER READY ROOM

There will be a presentation preview/speaker ready room, which is **Room 280** of the America's Center. **All speakers must visit** the speaker ready room the day prior to their presentation. There will be a technician in the room to assist with presentations. **Please note:** LCD projectors are the only form of visual equipment that will be provided. *Use of your personal computer will not be permitted.*

SPEAKER READY ROOM HOURS

Saturday, September 1	6:00 PM – 7:30 PM
Sunday, September 2	7:00 AM – 6:00 PM
Monday, September 3	7:00 AM – 7:00 PM
Tuesday, September 4	7:00 AM – 6:00 PM
Wednesday, September 5	7:00 AM – 1:00 PM
Thursday, September 6	7:00 AM – 6:00 PM
Friday, September 7	7:00 AM – 1:00 PM

CONFERENCE VENUE & HOTEL INFORMATION

All scientific sessions, food and beverage events, exhibits, and registration will be located in the:

America's Center

701 Convention Plaza
St. Louis, Missouri 63101 USA
800-916-8938

HOTELS

Hilton St. Louis at the Ballpark

1 S. Broadway
St. Louis, Missouri 63102 USA
314-421-1776

Holiday Inn Downtown Convention Center

811 N. Ninth Street
St. Louis, Missouri 63101 USA
314-421-4000

TECHNICAL AND SOCIAL TOURS

Wednesday, September 5

For details, please visit:

<http://www.2018iac.org/tours-banquet/>

ON-SITE MEALS

AAAR will provide a box lunch for all attendees on **Thursday, September 6**, in the exhibit hall during the Poster Session (**Technical Session 10**). The America's Center will have a few concessions and small food venues open during the IAC. There are many good dining options for every budget within just a block or two of the convention center.



AAAR COMMITTEE MEETINGS

Awards Committee		
Tuesday, September 4	12:00 PM – 1:00 PM	Room 261

Conference Committee		
Wednesday, September 5	7:00 AM – 8:00 AM	Room 123

Development Committee		
Wednesday, September 5	7:00 AM – 8:00 AM	Room 261

Education Committee		
Tuesday, September 4	12:00 PM – 1:00 PM	Room 262

Endowment Committee		
Tuesday, September 4	7:00 AM – 8:00 AM	Room 261

Finance Committee		
Monday, September 3	7:00 AM – 8:00 AM	Room 261

Internet Communications Committee		
Wednesday, September 5	7:00 AM – 8:00 AM	Room 262

Long Range Planning Committee		
Thursday, September 6	7:00 AM – 8:00 AM	Room 261

Membership Committee		
Tuesday, September 4	7:00 AM – 8:00 AM	Room 262

Newsletter Committee		
Wednesday, September 5	7:00 AM – 8:00 AM	Room 124

2019 Program Committee <i>(Working Group Chairs 2019)</i>		
Thursday, September 6	4:30 PM – 5:30 PM	Room 123

Publications Committee		
Thursday, September 6	7:00 AM – 8:00 AM	Room 262

Early Career Committee		
Thursday, September 6	7:00 AM – 8:00 AM	Room 123

2018 TRAVEL GRANT AWARDEES

US GRANTS

Isaac Afreh
Sima Asadi
Julia Bakker-Arkema
Matthew Brege
Yi Chen
Yunle Chen
Bradley Conrad
Kevin Dillon
Torkan Fazli
Alexander Frie
Shahzad Gani
Hao Guo
Elias Hasenecz
Jiayang He
Yuanlong Huang
Leif Jahn
Karoline Johnson
Hanyang Li
Sydonia Manibusan
Joseph Marto
Dana McGuffin
Marina Nieto-Caballero
Regan Patterson
David Pfothenauer
Yu Qian
Nicholas Rothfuss
Meredith Schervish
Deep Sengupta
Madhu Singh
Manpreet Takhar
Xinjiao Tian
Elvis Torres-Delgado
Paul Van Rooy
Benjamin Werden
Martin Wolf
Justin Wright
Bo Yang
Haoran Yu
Zechen Yu
Lipeng Su

PROFESSIONAL

Ana Maria Vidales
Nic Surawski
Bernadette Rosati
Simone Pieber
Ahmad Kamruzzaman Majumder
Md Masud Rana
Dongping Chen
Rui Du
Xiaole Chen
Maria Huertas
Martin Andreas Bodker Enghoff
Sebastian Schmitt
Ranjit Kumar
Jayant Nirmalkar
Jai Prakash
Yelia Shankaranarayana Mayya
Shubha Verma
Suresh Tiwari
Atinderpal Singh
Shamsh Pervez
Mukunda Gogoi
Aditya Vaishya
Martha Arbayani Zaidan
Muhayatun Santoso
David Cappalletti
Jurgita Ovadnevaite
Luis Modesto-Lopez
Emmanuel Olumayede
Zulqifar Ali
Celia Alves
Axel Eriksson
Achariya Suriyawong
Kalynovskiy Oleksander
Christopher Abram
Patricia Krecl

INTERNATIONAL

Raja Boragapu
Carmen Dameto de Espana
Erick Frederico Kill Agug
Thi-Cuc Le
Siyang Li
Keren Liao
Marek Maasikmets
Jeevan Lal Matawle
Robert Nishida
Anilbhai Patel
Neha Rani
Naama Reicher
Rui Rong
Mohit Singh
Nandita Singh
Kanika Taneja
Navaneeth Thamban
Robert Wagner
Shelly Saima Yaqub
Roheela Yasmeen



2018 STUDENT ASSISTANTS

C M Sabbir Ahmed
University of California, Riverside

Chethani Athukorala
Clarkson University

Sahil Bhandari
UT Austin

Alyssa Burke
University of North Carolina at Chapel Hill

Xi Chen
*Indiana University Purdue University
Indianapolis*

Yuzhi Chen
University of North Carolina at Chapel Hill

Jin Chen
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Megan Christiansen
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David Dhanraj
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Research*

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University of Michigan

Kaisen Lin
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Joseph Marto
University at Albany, SUNY

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Stamford University Bangladesh

Matthew Ninneman
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Nicole Olson
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Steven Tran
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Joshua Udvardy
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Necip B. Uner
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Shuping Zhang
Chinese Academy of Sciences

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Trevor Tilly
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Vikas Goel
CSIR-NPL





WELCOME



10th International Aerosol Conference
(IAC 2018)

September 2 - 7, 2018

.....

America's Center
St. Louis, MO USA

Center for Aerosol Science and Engineering (CASE)
Washington University in St. Louis

aerosols.wustl.edu

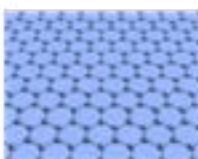
Globally-leading program in aerosol science and engineering that addresses grand challenges related to the environment, energy, advanced materials and human health



Climate &
Environment



Health



Advanced
Materials



Medicine



Energy



Agriculture



Commodity
Powders

CORE FACULTY

Richard Axelbaum, Pratim Biswas, Rajan Chakrabarty,
Rudy Husar, Benjamin Kumfer, Elijah Thimsen, Jay Turner,
Brent Williams, Jian Wang



IAC SCHEDULE AT-A-GLANCE

NOTE THAT ALL CONFERENCE SESSIONS WILL BE HELD AT
THE AMERICA'S CENTER IN ST. LOUIS, MISSOURI, USA

SATURDAY, SEPTEMBER 1

6:00 PM – 7:30 PM

IAC Registration | *Exhibit Hall 5 Lobby, Level 1*

6:00 PM – 7:30 PM

Speaker Ready Room | *Room 280*

7:30 PM – 8:30 PM

Student Assistant Orientation | *Room 123*

SUNDAY, SEPTEMBER 2

7:00 AM – 6:00 PM

IAC Registration | *Exhibit Hall 5 Lobby, Level 1*

7:00 AM – 6:00 PM

Speaker Ready Room | *Room 280*

8:30 AM – 10:10 AM

First Tutorial Session

1. **Introduction to Aerosols** | *Room 264*
Richard C. Flagan
2. **Aerosol Optics: Fundamentals and Instrumentation** | *Room 276*
Hans Moosmuller and Chris Sorensen
3. **Low Cost Sensors: The “How” of Performance Evaluation, Network Design and Data Handling** | *Room 275*
Vasileios Papapostolou and Brandon Feenstra
4. **Estimating the Air Pollution Inhaled Dose Based on Heart Rate, Breathing Rate and Other Easily-measured Physiological Parameters** | *Room 274*
Roby Greenwald

10:30 AM – 12:10 PM

Second Tutorial Session

5. **Emerging and Future Aerosol Routes to Materials: An Industry Perspective** | *Room 264*
Toivo Kodas

6. **Method Advances from CLOUD – Aerosol Measurement in Very Low Nanometer Regime** | *Room 276*

Urs Baltensperger and Paul Winkler

7. **Techniques and Instrumentation for Bioaerosol Investigation: Molecular Biology and Real-Time Fluorescence-Based Analyses** | *Room 275*

Jordan Peccia and Alex Huffman

8. **Oxidation Flow Reactors: Principles and Best Practices for Applications in Aerosol Research** | *Room 274*

Jose Jimenez

12:10 PM – 1:30 PM

Lunch (on your own)

1:30 PM – 5:10 PM

Grand Challenges Workshop | *Room 264*

1:30 PM – 3:10 PM

Third Tutorial Session

9. **Hands-On Aerosol Instrumentation Design and Measurement – Group A** (Magee Scientific, TSI Inc., Brechtel Inc., Cambustion, VS Particle, Droplet Measurement) | *Exhibit Hall 5*
Moderated by Rajan Chakrabarty
10. **Models for Simulating Atmospheric Aerosols** | *Room 276*
Nicole Riemer
11. **Online Aerosol Mass Spectrometry** | *Room 275*
James Allan
12. **Designing and Conducting Field Campaigns that Include Indoor Environments** | *Room 274*
Shelly Miller and Jeffrey Siegel

12:00 PM – 6:00 PM

Exhibitor Set-Up | *Exhibit Hall 5*

2:00 PM – 6:00 PM

Poster Set-Up | *Exhibit Hall 5*

3:30 PM – 5:10 PM

Fourth Tutorial Session

13. **Hands-On Aerosol Instrumentation Design and Measurement – Group B** (Dekati, Palas GmbH, Aethlabs, Kanomax, Grimm Aerosol, Airmodus)
Exhibit Hall 5
Moderated by Rajan Chakrabarty
14. **Microphysics and Chemistry of Droplet and Ice Nucleation** | *Room 276*
Daniel J. Cziczo
15. **Aerosols Over China: Properties, Composition and Health Impacts** | *Room 275*
Min Hu and Maosheng Yao
16. **Quality Assurance of Atmospheric Aerosol Measurements: Recommendations on Aerosol Sampling and Conditioning & Calibration Procedures for Mobility Particle Size Spectrometers** | *Room 274*
Alfred Weidensohler

5:00 PM – 7:00 PM

AAAR Executive Committee Meeting | *Room 123*

7:00 PM – 9:00 PM

Aerosol Scholars Celebrating Diversity

Location TBD

Sponsored by: Elsevier Ltd.

MONDAY, SEPTEMBER 3

7:00 AM – 7:00 PM

IAC Registration | *Exhibit Hall 5 Lobby, Level 1*

7:00 AM – 7:00 PM

Speaker Ready Room | *Room 280*

7:00 AM – 8:00 AM

Finance Committee Meeting | *Room 261*

8:00 AM – 8:15 AM

Opening Ceremony | *Ferrara Theater*

8:15 AM – 9:15 AM

Plenary 1: From Particle Counting to Aerosol Collection: Just Add Water | *Ferrara Theater*

Susanne Hering

9:15 AM – 4:00 PM

Exhibits/Posters Open | *Exhibit Hall 5*

9:15 AM – 9:45 AM

Coffee Break | *Exhibit Hall 5*

Sponsored by: MDPI

9:45 AM – 11:45 AM

Technical Session 1: Platform

- 1AC. **Aerosol Chemistry I** | *Room 275*
- 1AM. **Aerosol Modeling I** | *Room 274*
- 1MD. **Aerosols in Medicine I** | *Room 260*
- 1DU. **Combustion-Generated Aerosols: the Desirable and Undesirable I** | *Room 263*
- 1CM. **Control and Mitigation I** | *Room 264*
- 1IA. **Indoor Aerosols I** | *Room 265/266*
- 1OF. **Oxidation Flow Reactor: Development, Characterization, and Application to Aerosols I** | *Room 276*
- 1RA. **Remote/Regional Atmospheric Aerosol I** | *Room 267*
- 1IN. **Unraveling the Many Facets of Ice Nucleating Particles and Their Interactions with Clouds I** | *Ferrara Theater*

11:45 AM – 1:15 PM

Lunch (on your own)

12:00 PM – 1:00 PM

Meet Aerosol Pioneers | *Exhibit Hall 5*

11:45 AM – 1:15 PM

AAAR Board of Directors Luncheon | *Room 262*

11:45 AM – 1:15 PM

GAeF Board Meeting and Luncheon | *Room 124*

11:45 AM – 1:15 PM

AARA Board Meeting | *Room 123*

12:00 PM – 1:00 PM

AAAR Working Group Chairs 2018 Strategy Meeting | *Room 261*

1:15 PM – 3:15 PM

Technical Session 2: Platform

- 2AC. **Aerosol Chemistry II** | *Room 275*
- 2AP. **Aerosol Physics II** | *Room 274*
- 2CA. **Carbonaceous Aerosol I** | *Room 260*
- 2CM. **Control and Mitigation II** | *Room 264*
- 2IA. **Indoor Aerosols II** | *Room 265/266*
- 2IM. **Instrumentation I** | *Room 276*
- 2MS. **Materials Synthesis I** | *Room 263*
- 2RA. **Remote/Regional Atmospheric Aerosol II** | *Room 267*
- 2IN. **Unraveling the Many Facets of Ice Nucleating Particles and Their Interactions with Clouds II** | *Ferrara Theater*

3:15 PM – 3:45 PM

Coffee Break | *Exhibit Hall 5*

3:45 PM – 5:15 PM

Technical Session 3: Platform

- 3AC. Aerosol Chemistry III | *Room 275*
- 3ED. Aerosol Education I | *Room 267*
- 3MD. Aerosols in Medicine II | *Room 260*
- 3CM. Control and Mitigation III | *Room 264*
- 3IA. Indoor Aerosols III | *Room 265/266*
- 3MS. Materials Synthesis II | *Room 263*
- 3OF. Oxidation Flow Reactor: Development, Characterization, and Application to Aerosols II | *Room 276*
- 3RA. Remote/Regional Atmospheric Aerosol III | *Room 274*
- 3IN. Unraveling the Many Facets of Ice Nucleating Particles and Their Interactions with Clouds III | *Ferrara Theater*

5:15 PM – 6:15 PM

AAAR Working Group Meetings 1

- Atmospheric Aerosols | *Room 260*
- History of Aerosol Science | *Room 263*
- Control and Mitigation Technology | *Room 264*
- Indoor Aerosols and Aerosol Exposure | *Room 265/266*
- Instrumentation | *Room 267*

5:15 PM – 6:15 PM

GAeF General Assembly | *Room 124*

6:15 PM – 8:30 PM

Welcome Reception | *Exhibit Hall 5*

6:15 PM – 8:30 PM

Technical Session 4: Poster | *Exhibit Hall 5*

- 4AC. Aerosol Chemistry IV
- 4AP. Aerosol Physics II
- 4AM. Aerosol Modeling II
- 4IA. Indoor Aerosols IV
- 4AE. Aerosol Exposure
- 4IM. Instrumentation II
- 4RA. Remote/Regional Atmospheric Aerosol IV
- 4CA. Carbonaceous Aerosol II
- 4CM. Control and Mitigation IV
- 4MS. Materials Synthesis III

4ED. Aerosol Education II

4MD. Aerosols in Medicine III

4DU. Combustion-Generated Aerosols: the Desirable and Undesirable II

4OF. Oxidation Flow Reactor: Development, Characterization, and Application to Aerosols III

4IN. Unraveling the Many Facets of Ice Nucleating Particles and Their Interactions with Clouds IV

TUESDAY, SEPTEMBER 4

7:00 AM – 6:00 PM

IAC Registration | *Exhibit Hall 5 Lobby, Level 1*

7:00 AM – 6:00 PM

Speaker Ready Room | *Room 280*

7:00 AM – 8:00 AM

Endowment Committee Meeting | *Room 261*

7:00 AM – 8:00 AM

Membership Committee Meeting | *Room 262*

8:00 AM – 9:15 AM

Plenary 2: Materials Synthesis | *Ferrara Theater*
| Yakov Kutsovsky

Announcement of International Aerosol Fellows

Announcement of AAAR 2018 Fellows

Sinclair Award Presentation

AS&T Outstanding Paper and Outstanding Reviewer Awards

9:15 AM – 4:00 PM

Exhibits/Posters Open | *Exhibit Hall 5*

9:15 AM – 9:45 AM

Coffee Break | *Exhibit Hall 5*

9:45 AM – 11:45 AM

Technical Session 5: Platform

- 5AC. Aerosol Chemistry V | *Room 275*
- 5AM. Aerosol Modeling III | *Room 260*
- 5AP. Aerosol Physics III | *Room 274*
- 5CD. Aerosols and Health – Connecting the Dots I | *Room 276*
- 5CA. Carbonaceous Aerosol III | *Room 265/266*

- 5CM. Control and Mitigation V | Room 264
5IM. Instrumentation III | Ferrara Theater
5MS. Materials Synthesis IV | Room 263
5RA. Remote/Regional Atmospheric Aerosol V
Room 267

11:45 AM – 1:15 PM

Lunch (on your own)

12:00 PM – 1:00 PM

Industry-Academia Partnership Forum | Exhibit Hall 5

11:45 AM – 1:15 PM

IARA Board Meeting and Luncheon | Room 123

11:45 AM – 1:15 PM

AS&T Editors Luncheon | Room 124

12:00 PM – 1:00 PM

Awards Committee Meeting | Room 261

12:00 PM – 1:00 PM

Education Committee Meeting | Room 262

1:15 PM – 3:00 PM

Fuchs Award, Lecture and Reception | Ferrara Theater With Reception to follow in Exhibit Hall 5

3:00 PM – 5:15 PM

Technical Session 6: Platform

- 6AC. Aerosol Chemistry VI | Room 275
6AE. Aerosol Exposure II | Room 265/266
6AM. Aerosol Modeling IV | Room 260
6TT. Aerosol Transport and Transformation I
| Room 267
6CD. Aerosols and Health – Connecting the
Dots II | Room 276
6CC. Clouds and Climate I | Room 264
6IB. Infectious Bioaerosol I | Room 274
6IM. Instrumentation IV | Ferrara Theater
6MS. Materials Synthesis V | Room 263

5:15 PM – 6:15 PM

Working Group Meetings 2

- Aerosol Chemistry | Room 260
Aerosol Physics | Room 263
Bioaerosols | Room 264
Health Related Aerosols | Room 265/266
Combustion and Materials | Room 267

6:15 PM – 8:30 PM

Technical Session 7: Poster and Reception

Exhibit Hall 5

- 7AC. Aerosol Chemistry VII
7AE. Aerosol Exposure III
7AM. Aerosol Modeling V
7AP. Aerosol Physics IV
7TT. Aerosol Transport and Transformation II
7CD. Aerosols and Health – Connecting the Dots III
7ES. Aerosols in Earth System I
7MG. Air Quality in Megacities: from Sources to
Control I
7BA. Bioaerosols I
7CC. Clouds and Climate II
7CB. Combustion I
7CM. Control and Mitigation VI
7IA. Indoor Aerosols V
7IB. Infectious Bioaerosols II
7IM. Instrumentation V
7LC. Low-Cost and Portable Sensors I
7MS. Materials Synthesis VI

WEDNESDAY, SEPTEMBER 5

6:30 AM

Fun Run | Location TBD

7:00 AM – 1:00 PM

IAC Registration | Exhibit Hall 5 Lobby, Level 1

7:00 AM – 1:00 PM

Speaker Ready Room | Room 280

7:00 AM – 8:00 AM

Conference Committee Meeting | Room 123

7:00 AM – 8:00 AM

Development Committee Meeting | Room 261

7:00 AM – 8:00 AM

Internet Communications Committee Meeting
| Room 262

7:00 AM – 8:00 AM

Newsletter Committee Meeting | Room 124

8:00 AM – 9:15 AM

Plenary 3: High Sectorially Resolved Inventories to Evaluate Air Quality Trends in China | *Ferrara Theater* | Shu Tao

Smoluchowski Award Presentation

Schmauss Award Presentation

Kenneth T. Whitby Award Presentation

9:15 AM – 12:00 PM

Exhibits/Posters Open | *Exhibit Hall 5*

9:15 AM – 9:45 AM

Coffee Break | *Exhibit Hall 5*

9:45 AM – 12:00 PM

Technical Session 8: Platform

8AC. Aerosol Chemistry VIII | *Room 275*

8AE. Aerosol Exposure I | *Room 265/266*

8AM. Aerosol Modeling VI | *Room 260*

8ES. Aerosols in Earth System II | *Room 267*

8MG. Air Quality in Megacities: from Sources to Control II | *Room 274*

8CB. Combustion II | *Room 263*

8IB. Infectious Bioaerosols III | *Room 264*

8IM. Instrumentation VI | *Room 276*

8LC. Low-Cost and Portable Sensors II
Ferrara Theater

12:00 PM – 1:00 PM

Lunch (on your own)

12:00 PM – 1:00 PM

Early Career Event | *Ferrara Theater*

12:00 PM – 4:00 PM

AAAR Board Meeting 1 | *Room 123*

12:00 PM – 1:00 PM

AS&T Editorial Advisory Board Luncheon | *Room 261*

12:00 PM – 1:00 PM

European Aerosol Assembly Board Meeting | *Room 124*

12:00 PM – 1:00 PM

AAQR Editorial Board Luncheon | *Room 262*

1:00 PM – 4:30 PM

Optional Technical Tours

5:00 PM – 9:00 PM

Optional Social Tours

6:00 PM – 8:00 PM

Optional Evening with Industry

MAGEE SCIENTIFIC: PRESENTATION OF NEW INSTRUMENTS FOR THE ANALYSIS OF CARBONACEOUS AEROSOLS | *Room 123*

Magee Scientific is the originator and developer of the Aethalometer, the instrument most-used in the world for the real-time measurement of aerosol BC. The Model AE33 Aethalometer provides speciation and source apportionment of "Black" (diesel) versus "Brown" (biomass) carbon with a time resolution as rapid as 1 second.

Our new instrument is the Total Carbon Analyzer, model TCA08. This provides a continuous analysis of the TC content of aerosols with a time resolution as rapid as 15 minutes. It links to the AE33 to provide real-time EC/OC data. A significant advantage for field or monitoring applications is that the TCA contains NO FRAGILE GLASS, and requires NO SPECIALIZED GAS SUPPLIES.

We shall demonstrate these instruments in a hands-on session conducted by the instrument developers themselves, together with our support staff.

KANOMAX PRESENTATION AND RECEPTION | *Room 124*

6:00 PM – 9:00 PM

Optional University Reunions

6:00 PM – 9:00 PM

Potential Aerosol Mass Oxidation Flow Reactor (Independent Meeting) | *Room 275*

THURSDAY, SEPTEMBER 6

7:00 AM – 6:00 PM

IAC Registration | *Exhibit Hall 5 Lobby, Level 1*

7:00 AM – 6:00 PM

Speaker Ready Room | *Room 280*

7:00 AM – 8:00 AM

Long Range Planning Committee Meeting | *Room 261*

7:00 AM – 8:00 AM

Publications Committee Meeting | *Room 262*

7:00 AM – 8:00 AM

Early Career Committee Meeting | Room 123

8:00 AM – 9:15 AM

Plenary Session 4: Improvement of Inhalation Toxicity Testing for Nanomaterials and Compliance Monitoring for Ambient PM | Ferrara Theater | Jun Kanno and Chuen-Jinn Tsai

Mercer Award Presentation

Friedlander Dissertation Award Presentation

GAeF PhD Award Presentation

9:15 AM – 3:45 PM

Exhibits/Posters Open | Exhibit Hall 5

9:15 AM – 9:45 AM

Coffee Break | Exhibit Hall 5

9:45 AM – 11:45 AM

Technical Session 9: Platform

9AC. Aerosol Chemistry IX | Room 275

9AM. Aerosol Modeling VII | Room 260

9AP. Aerosol Physics V | Room 263

9MG. Air Quality in Megacities: from Sources to Control III: Characterization of Primary and Secondary Aerosols I | Room 274

9BA. Bioaerosols II | Room 264

9CA. Carbonaceous Aerosol IV | Room 267

9IM. Instrumentation VII | Room 276

9LC. Low-Cost and Portable Sensors III
| Ferrara Theater

9WA. Workplace Aerosol | Room 265/266

11:45 AM – 1:15 PM

Technical Session 10: Poster with Box Lunch for All | Exhibit Hall 5

10AC. Aerosol Chemistry X

10AP. Aerosols Physics VI

10TO. Aerosol Toxicology I

10MG. Air Quality in Megacities: From Sources to Control IV

10BA. Bioaerosols III

10CA. Carbonaceous Aerosol V

10CB. Combustion III

10DU. Combustion-Generated Aerosols: the Desirable and Undesirable III

10HA. Health Related Aerosols I

10IM. Instrumentation VIII

10LC. Low-Cost and Portable Sensors IV

10RA. Remote/Regional Atmospheric Aerosol VI

10SA. Source Apportionment I

10WA. Workplace Aerosol II

1:15 PM – 3:15 PM

Technical Session 11: Platform

11AC. Aerosol Chemistry XI | Room 275

11AP. Aerosol Physics VII | Room 265/266

11MG. Air Quality in Megacities: from Sources to Control V: Characterization of Primary and Secondary Aerosols II | Room 274

11BA. Bioaerosols IV | Room 264

11CA. Carbonaceous Aerosols VI | Room 267

11CB. Combustion IV | Room 263

11HA. Health Related Aerosols II | Room 260

11IM. Instrumentation IX | Room 276

11LC. Low-Cost and Portable Sensors V
| Ferrara Theater

3:15 PM – 3:45 PM

Coffee Break

3:45 PM

Exhibit Hall Closes

3:45 PM – 4:30 PM

Grand Challenges Workshop Summary
| Ferrara Theater

4:30 PM – 5:30 PM

Meet Aerosol Pioneers | Room 124

4:30 PM – 5:30 PM

AAAR Working Group Chairs 2019 Technical Program Meeting | Room 123

5:30 PM – 6:30 PM

AAAR Business Meeting | Room 276

6:30 PM – 10:00 PM

IAC Banquet at the Gateway Arch

Announcing Top Poster Prizes & Fine Particle Art Prizes

Sponsored by:



KANOMAX
The Ultimate Measurements

FRIDAY, SEPTEMBER 7

7:00 AM – 1:00 PM

IAC Registration | *Exhibit Hall 5 Lobby, Level 1*

7:00 AM – 1:00 PM

Speaker Ready Room | *Room 280*

8:00 AM – 9:15 AM

Plenary 5: Aerosol Nucleation Dynamics and Thermodynamics | *Ferrara Theater* | Ilona Riipinen

Fissan-Piu-TSI Award Presentation

Student and Scholar Poster Competition Awards

Fine Particle Art Prizes

9:15 AM – 9:45 AM

Coffee Break

9:45 AM – 11:45 AM

Technical Session 12: Platform

12AC. Aerosol Chemistry XII | *Room 275*

12AP. Aerosol Physics VIII | *Room 265/266*

12MG. Air Quality in Megacities: from Sources to Control VI: Impacts | *Room 274*

12BA. Bioaerosols V | *Room 264*

12CB. Combustion V | *Room 263*

12IM. Instrumentation X | *Room 276*

12LC. Low-Cost and Portable Sensors VI | *Ferrara Theater*

12RA. Remote and Regional Atmospheric Aerosol VII | *Room 260*

12SA. Source Apportionment II | *Room 267*

11:45 AM – 1:15 PM

Lunch (on your own) | *Room 124*

12:00 PM – 1:00 PM

Meet Aerosol Pioneers | *Room 124*

11:45 AM – 1:15 PM

AAAR Board Meeting 2 | *Room 123*

11:45 AM – 1:15 PM

Bioaerosol Working Group Lunch | *Room 261*

1:15 PM – 3:15 PM

Technical Session 13: Platform

13AC. Aerosol Chemistry XIII | *Room 275*

13AP. Aerosol Physics IX | *Room 265/266*

13TO. Aerosol Toxicology II | *Room 260*

13MG. Air Quality in Megacities: From Sources to Control VII: Controls | *Room 274*

13BA. Bioaerosols VI | *Room 264*

13CA. Carbonaceous Aerosol VII | *Room 276*

13CB. Combustion VI | *Room 263*

13IM. Instrumentation XI | *Ferrara Theater*

13SA. Source Apportionment III | *Room 267*

3:15 PM – 3:30 PM

Coffee Break

3:30 PM – 5:00 PM

Technical Session 14: Platform

14AC. Aerosol Chemistry XIV | *Room 275*

14AP. Aerosol Physics X | *Room 265/266*

14BA. Bioaerosols VII | *Room 264*

14CA. Carbonaceous Aerosol VIII | *Room 276*

14DU. Combustion-Generated Aerosols: the Desirable and Undesirable IV | *Room 263*

14HA. Health Related Aerosols III | *Room 260*

14LC. Low-Cost and Portable Sensors VII | *Ferrara Theater*

14 RA. Remote/Regional Atmospheric Aerosol VIII | *Room 274*

14SA. Source Apportionment IV | *Room 267*

5:00 PM

2018 IAC Adjourns

2018 IAC EXHIBITORS

We gratefully acknowledge the following companies for their participation at the 10th International Aerosol Conference. Please visit each company in Exhibit Hall 5.

Aerodyne Research | Booth 19

Aerosol Devices | Booth 13

Aerosol and Air Quality Research | Booth 23

Aethlabs | Booth 43

Airmodus | Booth 46

Biaera Technologies | Booth 20

Biral-Bristol Industrial | Booth 8

Brechtel Manufacturing | Booth 44

Cambustion | Booths 14,15

Catalytic Instruments | Booth 39

Dekati | Booths 25, 26

Droplet Measurement Technologies | Booth 22

Elsevier Ltd. | Booth 7

Grimm Aerosol | Booths 41, 42

In-Tox Products | Booth 40

Ionicon | Booth 9

Kanomax | Booths 29, 30

Korea Institute of Machinery & Materials. | Booth 38

Livermore Instruments | Booth 47

Magee Scientific | Booth 31

Metrohm USA | Booth 45

Micro Pulse LiDar, a Division of Lica Geosystems
| Booth 21

Palas GmbH | Booth 24

Particle Instruments | Booth 27

PerkinElmer | Booth 36

Sunset Laboratory | Booth 48

Taylor & Francis | Booth 35

Topas GmbH | Booth 28

TSI, Inc. | Booths 16, 17, 18

URG Corporation | Booths 32, 33

U.S. EPA Air and Energy National Research Program
| Booth 37

VS Particle | Booth 34

AERODYNE RESEARCH

Booth 19

Our state of the art scientific instruments measure gases and/or aerosol particles in real time and with great sensitivity. Our particle instruments include Aerosol Mass Spectrometer systems, the Aerosol Chemical Speciation Monitors, the CAPS PMex, SSA Monitors, and Aerosol Absorption Monitors. Additional instruments are ARISense AQ sensors and PAM chamber.

AEROSOL AND AIR QUALITY RESEARCH

Booth 23

The international journal of Aerosol and Air Quality Research (AAQR) covers all aspects of aerosol science and technology, atmospheric science and air quality related issues.

AEROSOL DEVICES

Booth 13

DO YOU BELIEVE IN MAGIC? Come play with the world's first tippable, self-sustaining, compact, water-based condensation particle counter – a **MAGIC CPC™**.

SPOT SAMPLER™ – now accepting orders - new Series 110A Spot Sampler with an easy, menu-driven user interface and other enhancements for particle collection for physical, chemical and biological analysis.

AETHLABS

Booth 43

AethLabs is the manufacturer of the microAeth® family of Black Carbon (BC) monitors. The new microAeth MA Series are battery powered, self-contained, multi-wavelength instruments with automatic filter tape advance for long duration BC measurements. The instruments feature DualSpot® technology and have many additional sensors, such as GPS, temperature, humidity and pressure, as well as wireless communications. The microAeth® family is based on proven Aethalometer® measurement technology that has been used world-wide for nearly 40 years.

AIRMODUS

Booth 46

Airmodus offers Particle Size Magnifier systems that are able to detect both neutral and charged particles down to 1 nm in diameter, filling the gap between traditional aerosol particle size distribution measurements and gas phase monitoring; and easy-to-use Condensation Particle Counters with a cut-off size fit for your measurement needs.

BIAERA TECHNOLOGIES

Booth 20

Biaera is your comprehensive resource for building and sustaining a laboratory-based aerobiology program. Biaera's patented AeroMP/Aero3G technology manages automation, control, and recording in infectious disease aerosol systems. Through creative partnerships with other industry leaders, Biaera's custom solutions integrate the best-available technologies in high-containment inhalation studies.

BIRAL

Booth 8

Biral develop instrumentation for the analysis of aerosol particles. In particular, we produce the AOT-100 which allows individual aerosol droplets to be isolated and analysed with exceptional precision. Although the AOT-100 utilises cutting edge techniques, the easy-to-use control software make it an extremely powerful tool that can be used by anyone.

BRECHTEL

Booth 44

Portable instruments?
Super-sensitive BC measurements?
Fast water uptake and size distributions?
Our products are easy to use and supported by the great service you deserve. With free lifetime product application support, our solutions are backed by over 26 years of sampling experience. Visit us at www.brechtel.com.

CAMBUSTION

Booths 14, 15

With Cambustion you can:
Generate truly monodisperse aerosol (25nm–5µm) without charging artefacts, ideal for instrument calibration.
Generate mass monodisperse aerosol (0.2ag-1,050fg / particle), for aerosol characterization / instrument calibration (e.g. SP2)
Measure size-distributions 5nm-2.5 µm at 10Hz from ambient & combustion sources.
Reproduce standard & realworld smoking profiles for e-cig, tobacco, cannabis.

CATALYTIC INSTRUMENTS

Booth 39

Catalytic Instruments is a German company specializing in the production of innovative aerosol instruments based on "catalytic stripper" technology. A catalytic stripper is a heated catalytic element used to remove the particle and gas phase semi-volatile fraction of an aerosol. Applications include measurement of diesel, locomotive, and gas turbine exhaust.

DEKATI LTD.

Booths 25 and 26

Dekati Ltd. has over 25 years of experience in providing high quality instrumentation for fine particle measurements. Our measurement solutions include complete measurement setups including both sample conditioning and particle detection for <10 µm particles. Come and visit us at the exhibition to learn more about Dekati® Measurement Solutions!

DROPLET MEASUREMENT TECHNOLOGIES

Booth 22

Droplet Measurement Technologies creates, manufactures, and services leading cloud and aerosol instruments that propel breakthroughs in environmental science and engineering. With a legacy of fostering invention and a renewed commitment to science and innovation, we help champion discovery in support of people and planet.

ELSEVIER LTD.

Booth 7

Elsevier provides web-based, digital solutions – among them ScienceDirect, Scopus, Elsevier Research Intelligence and ClinicalKey – and publishes over 3,800 journals, including JACC Journals and The Lancet, and more than 35,000 book titles, including a number of iconic reference works. Elsevier is part of RELX Group, a world-leading provider of information and analytics for professional and business customers across industries.

GRIMM AEROSOL

Booth 42

GRIMM Aerosol, Member of the DURAG Group, is one of the world's leading companies in the field of high-tech aerosol measurement instrumentation due to its innovations and quality manufacturing. Instruments determine particle number and particle size, as well as particle mass distribution.

The product portfolio of GRIMM includes:

- Dust Monitors for PM10, PM2.5 and PM1
- Nanoparticle Counting and Sizing
- Indoor Air Quality Monitors
- Workplace Monitors
- Filter Efficiency Test Systems
- Aerosol Generators

Applications include: IAQ, Atmospheric Aerosol Research, Epidemiological Studies, Materials Processing, Mobile Emissions, Environmental PM Monitoring & More. Grimm offers worldwide service and training through our subsidiaries, offices and a large network of international representatives.

IN-TOX PRODUCTS

Booth 40

In-Tox Products designs and manufactures state-of-the-art laboratory equipment for in vivo and in vitro inhalation toxicology and biological, pharmaceutical, and environmental aerosol research. They have been pioneers in aerosol and exposure technology for over 50 years. All of their instruments and equipment are original designs and made in the USA.

IONICON

Booth 9

IONICON is the world's leading producer of real-time trace VOC analyzers based on Proton Transfer Reaction – Mass Spectrometry (PTR-MS). The new CHARON aerosol inlet makes PTR-TOFMS the most versatile instrument for organic gas-and particle phase monitoring. We also manufacture modular time-of-flight mass spectrometers for academic research & OEM.

KANOMAX

Booths 29, 30

KANOMAX, headquartered in Japan and founded in 1934, strives to deliver the best possible solutions for detecting particles and measuring air flow. One of the group company, Kanomax FMT, Inc. develops groundbreaking instrumentation and specializes in supplying devices for detecting sub 20nm sized particles in ultrapure water systems and CMP slurries.

KOREAN INSTITUTE OF MACHINERY AND MATERIALS

Booth 38

KIMM, Korean government-funded research institute to bring a better future based on innovation in mechanical technology with reliability test, machine components/materials evaluation, commercialization of developed products or machineries through technology transfer and support.

LIVERMORE INSTRUMENTS

Booth 47

Livermore Instruments' Single Particle Aerosol Mass Spectrometer (SPAMS) is a revolutionary improvement in aerosol analysis, measuring the aerodynamic diameters (0.1 - 10 microns) and compositions of hundreds of individual particles per second even under extraordinary particle loads. Contracted analytical and research services using SPAMS are available.

MAGEE SCIENTIFIC

Booth 31

Magee Scientific originated the Aethalometer®, the instrument most widely used in the world for the real-time measurement and speciation of Black Carbon aerosols. The Optical Transmissometer measures the BC content of previously-collected filter samples. The Total Carbon Analyzer measures the TC content, from which EC and OC may be derived.

METROHM USA

Booth 45

From routine moisture analysis to sophisticated anion and cation quantification, Metrohm offers a complete line of analytical laboratory and process systems for titration, ion chromatography, electrochemistry and spectroscopy.

MICRO PULSE LIDAR, A DIVISION OF LEICA-GEOSYSTEMS

Booth 21

Micro Pulse LiDAR (MPL) instruments, help scientists, meteorologists and air quality professionals monitor clouds and aerosols to better understand our atmospheric structure. Using eye safe lasers, and originally designed for NASA, MPL's long-range capabilities and high quality signal deliver a rich source of atmospheric feature information.

PALAS GMBH

Booth 24

Palas® has set the standard in aerosol technology for 35 years. Through continuous innovation, Palas® achieves extraordinary quality and durability in their products, resulting in unique technical and economic advantages for their customers. Palas® is global market leader in the fields of aerosol generation, aerosol dilution and aerosol measurement technology.

2018 IAC EXHIBITORS (cont)

PARTICLE INSTRUMENTS LLC

Booth 27

Particle Instruments LLC is the North American distributor for Aerosol Dynamics Inc., Dekati Ltd., Kanomax Inc., Pegasor OY and Topas GmbH. Please stop by our booth to see our full line of aerosol instrumentation - everything from aerosol generators and conditioners to instruments measuring particle size, mass and charge.

PERKIN ELMER, INC.

Booth 36

PerkinElmer, Inc. is a global leader focused on improving the health and safety of people and their environment. With our analytical instrumentation, and leading laboratory services, we focus on improving the integrity and safety of the world we live in.

SUNSET LABORATORY INC.

Booth 48

Sunset Laboratory Inc. is a pioneer in the field of organic carbon and elemental carbon (OC-EC) aerosol analysis. Sunset Laboratory instruments provide results for elemental carbon, black carbon, organic carbon, and total carbon aerosol. Our instruments are used by federal and state government, academic researchers, and private sector industries including: aviation, mining, marine, astronomy, construction, and weather research.

TAYLOR & FRANCIS

Booth 35

Taylor & Francis partners with world-class authors, from leading scientists and researchers, to scholars and professionals operating at the top of their fields. We publish in all areas of the Humanities, Social Sciences, Behavioural Sciences, Science, Technology and Medicine Sectors. We are one of the world's leading publishers.

TOPAS GMBH

Booth 28

For over 25 years the name Topas GmbH has stood for a worldwide specialist in the field of aerosol & particle technology with more than 50 different standard devices, over 20 various filter test benches and separator test stands and complex tailor-made installations.

Web: www.topas-gmbh.de

Visit Topas at booth 28.

URG CORP.

Booths 32, 33

URG's active development of advanced sampling systems helps ensure better air for better lives. The Ambient Ion Monitor provides speciated real-time measurements of gas and particulate matter air pollutants. We specialize in a wide range of cyclones for ambient sampling and diesel emissions testing, annular denuders and personal sampling systems.

U.S. EPA AIR AND ENERGY NATIONAL RESEARCH PROGRAM

Booth 37

The U.S. Environmental Protection Agency's Air and Energy National Research Program provides critical science to advance innovative technologies to monitor air quality; assess impacts of wildland fires; determine health impacts of air pollutants; and develop methods to support air quality management.

Learn more at www.epa.gov/air-research

VS PARTICLE

Booth 34

VSPARTICLE is a spin-off of Delft University of Technology, specialized in aerosol generation and deposition. With their commercially available product the VSP-G1 making 0-20 nanometer primary particles and larger agglomerates becomes as easy as pushing a button. Currently VSPARTICLE is developing complete generation and deposition systems for advanced nanofabrication.





WHAT'S YOUR AEROSOL APPLICATION?

Some of our instruments are used to:

- + Detect fuel quality used in ships passing by
- + Quantify brake wear emissions
- + Determine the influence of airports on air quality in surrounding neighborhoods
- + Measure e-cigarette aerosols



Tell us more about your innovative research and learn how TSI can help!

A wide-angle, fisheye photograph of the St. Louis skyline at night. The Gateway Arch is the dominant feature, arching over the city. The skyline includes the Old Courthouse and several modern skyscrapers, all illuminated. The foreground shows a grassy area and a dark, reflective surface.

2018 IAC CONFERENCE PROGRAM

SUNDAY

SUNDAY | 8:30 AM - 10:10 AM

Tutorial Session 1

8:30	Introduction to Aerosols Richard C. Flagan , California Institute of Technology
8:30	Aerosol Optics: Fundamentals and Instrumentation Hans Moosmüller , Desert Research Institute Christopher Sorensen , Kansas State University
8:30	Low cost sensors: The How of Performance Evaluation, Network Design, and Data Handling Vasileios Papapostolou , South Coast Air Quality Management District; Brandon Feenstra , South Coast Air Quality Management District
8:30	Estimating the Air Pollution Inhaled Dose Based on Heart Rate, Breathing Rate and Other Easily-measured Physiologic Parameters Roby Greenwald , Georgia State University

SUNDAY | 10:30 AM - 12:10 PM

Tutorial Session 2

10:30	Emerging and Future Aerosol Routes to Materials: An Industry Perspective Toivo Kodas , Cabot Corporation
10:30	Method Advances from CLOUD - Aerosol Measurement in Very Low Nanometer Regime Urs Baltensperger , Paul Scherrer Institut; Paul M. Winkler , University of Vienna
10:30	Techniques and Instrumentation for Bioaerosol Investigation: Molecular Biology and Real-Time Fluorescence-based Analyses Jordan Peccia , Yale University; Alex Huffman , University of Denver
10:30	Oxidation Flow Reactors: Principles and Best Practices for Applications in Aerosol Research Jose-Luis Jimenez , University of Colorado-Boulder

SUNDAY | 1:30 PM - 5:10 PM

Grand Challenge Workshop

1:30	Workshop gathering talented brains in the aerosol community to identify the grand challenges in aerosol science and technology and to create a vision and provide directions for the global aerosol community Christopher Sorensen , Kansas State University; Richard Flagan , California Institute of Technology; David Pui , University of Minnesota; Junji Cao , Chinese Academy of Sciences; Yoshio Otani , Kanazawa University; Urs Baltensperger , Paul Scherrer Institute; Y.S. Mayya , Indian Institute of Technology-Bombay
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SUNDAY | 1:30 PM - 3:10 PM

Tutorial Session 3

1:30	Hands-On Aerosol Instrumentation Design and Measurement - Group A Total Carbon Analyzer , Magee Scientific; 1 nm SMPS , TSI Inc.; mSEMS Model 9404 , Brechtel Inc.; Aerodynamic Aerosol Classifier , Cambustion Inc.; VSP-G1 Nanoparticle Generator , VS Particle Inc.; WIBS NEO Instrument , Droplet Measurement Technologies
1:30	Models for Simulating Atmospheric Aerosols Nicole Riemer , University of Illinois at Urbana-Champaign
1:30	Online Aerosol Mass Spectrometry James Allan , University of Manchester
1:30	Designing and Conducting Field Campaigns That Include Indoor Environments Shelly L. Miller , University of Colorado-Boulder; Jeffrey A. Siegel , University of Toronto

SUNDAY | 3:30 PM - 5:10 PM

Tutorial Session 4

3:30	Hands-On Aerosol Instrumentation Design and Measurement - Group B ELPI+ , Dekati; Nanoparticle System U-SMPS , Palas GmbH; Micro-Aethalometer , Aethlabs; NanoAerosol Generator Model 3250 , Kanomax; Advanced Spectrometer 11-D and Hybrid Technology 1371 , Grimm Technologies; A11 nano Condensation Nucleus Counter , Airmodus
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3:30	Microphysics and Chemistry of Droplet and Ice Nucleation Daniel J. Cziczo, Massachusetts Institute of Technology
3:30	Aerosols Over China: Properties, Composition, and Health Impacts Min Hu, Peking University; Maosheng Yao, Peking University
3:30	Quality Assurance of Atmospheric Aerosol Measurements: Recommendations on Aerosol Sampling and Conditioning & Calibration Procedures for Mobility Particle Size Spectrometers Alfred Wiedensohler, University of Leipzig

MONDAY

MONDAY | 8:00 AM - 9:15 AM

Plenary I: AEESP Lecture

8:00	Welcoming Remarks Tyler Beck, Particle Instruments LLC
8:15	From Particle Counting to Aerosol Collection: Just Add Water Susanne Hering, Aerosol Dynamics Inc. Moderator: Tyler Beck, Particle Instruments LLC

MONDAY | 9:15 AM - 3:45 PM

Exhibits Open

MONDAY | 9:15 AM - 9:45 AM

Coffee Break

MONDAY | 9:45 AM - 11:45 AM

Session 1: Platform

1AC	AEROSOL CHEMISTRY I - ORGANO-SULFATE/NITRATES ROOM 275 Rebecca Schwantez and ManNin Chan, chairs
1AC.1 9:45	Understanding Missing Sources of Fine Particulate Organosulfur Compounds in the Atmosphere: Implications from Ambient Measurements and Laboratory Experiments. MATTHIEU RIVA, Yuzhi Chen, Lindsay Yee, Hilary Green, Tianqu Cui, Nicole Olson, Nancy Ziyang,

	Karsten Baumann, Mike Fort, Eric Edgerton, Eladio Knipping, Stephanie L. Shaw, Sri Hapsari Budisulistiorini, Caitlin Rose, Zhenfa Zhang, Avram Gold, Barbara Turpin, William Vizuete, Igor O. Ribeiro, Santos e Oliveira, Cristine Machado, Sérgio Duvoisin Junior, Rodrigo A. F. de Souza, Eliane Gomes, et al., University of North Carolina at Chapel Hill
1AC.2 10:00	Importance of Sulfate Radical Anion Formation and Chemistry in Heterogeneous OH Oxidation of Organosulfates. Kai Chung Kwong, Man Mei Chim, James F. Davies, Kevin Wilson, MAN NIN CHAN, The Chinese University of Hong Kong
1AC.3 10:15	α-Hydroxy Organosulfates and Nitroxy Organosulfates Derived from Monoterpenes: Stability and Ambient Presence. Yuchen Wang, Rongbiao Tong, JIAN ZHEN YU, Hong Kong University of Science & Technology
1AC.4 10:30	Experimental Study of Condensed-Phase Reaction Kinetics of Secondary Organic Aerosols from Isoprene Epoxydiols. YUZHONG CHEN, Matthieu Riva, Theran P. Riedel, Havala Pye, Nicole Olson, Ziyang Lei, Zhenfa Zhang, Avram Gold, William Vizuete, Barbara Turpin, Andrew Ault, Jason Surratt, University of North Carolina at Chapel Hill
1AC.5 10:45	Photochemical Multiphase Organonitrate Formation in Wet Particles Under Humid NO_x Conditions. YONG LIM, Jihoon Seo, Jin Young Kim, Bong Kim, Barbara Turpin, KIST
1AC.6 11:00	Quantifying the Hydrolysis Rate of Daytime and Nighttime Organic Nitrates in Aerosol Water. MASAYUKI TAKEUCHI, Thomas Berkemeier, Gamze Eris, Nga Lee Ng, Georgia Institute of Technology
1AC.7 11:15	Impact of NO_x on Secondary Organic Aerosol (SOA) Formation from α-pinene and β-pinene Photo-Oxidation: The Role of Organic Nitrates. Iida Pullinen, SEBASTIAN H. SCHMITT, Mehrnaz Sarrafzadeh, Sungah Kang, Patrick Schlag, Stefanie Andres, Einhard Kleist, Thomas F. Mentel, Franz Rohrer, Monika Springer, Ralf Tillmann, Jürgen Wildt, Cheng Wu, Defeng Zhao, Andreas Wahner, Astrid Kiendler-Scharr, Forschungszentrum Jülich
1AC.8 11:30	The Impact of Aerosol Uptake of Organic Nitrates on Simulated Surface Ozone in CAM-Chem. REBECCA SCHWANTES, Louisa Emmons, Simone Tilmes, John Orlando, Geoffrey Tyndall, National Center for Atmospheric Research

1AM		AEROSOL MODELING I ROOM 274 Mike Kleeman and Laura Fierce, chairs
1AM.1 9:45	Insights into Isoprene-Epoxydiol SOA Chemistry in Cloud Droplets using WRF-Chem and HI-SCALE Field Observations. MANISHKUMAR SHRIVASTAVA, Alla Zelenyuk, David Bell, Jerome Fast, Joel A. Thornton, Dan Imre, Kaitlyn J. Suski, Larry Berg, John Shilling, Jiumeng Liu, Fan Mei, Jason Tomlinson, Jian Wang, Pacific Northwest National Laboratory	
1AM.2 10:00	Long-term Trends in Simulated Ultrafine Particle Concentrations in California. Xin Yu, Anikender Kumar, Melissa Venecek, Abhishek Dhiman, MICHAEL KLEEMAN, University of California, Davis	
1AM.3 10:15	Physical and Model-based Characterization of NPF Events and Sensitivity of CN and CCN to Changes in Anthropogenic Emissions in the Midwestern United States. Can Dong, Robert Bullard, Ashish Singh, Scott N. Spak, Hitoshi Matsui, CHARLES STANIER, University of Iowa	
1AM.4 10:30	Mutual Information Method for Understanding Key Variables in Atmospheric New-Particle Formation. MARTHA ARBAYANI ZAIDAN, Ville Haapasilta, Rishi Relan, Pauli Paasonen, Veli-Matti Kerminen, Heikki Junninen, Markku Kulmala, Adam S. Foster, Helsinki University	
1AM.5 10:45	Efficient Wet Removal of Soluble Species through Deep Convection Simulated in Chemistry-Climate Models. PENGFEI YU, Karl D. Froyd, Owen Toon, Charles Bardeen, Shang Liu, Ru-Shan Gao, Christina Williamson, Agnieszka Kupc, Charles Brock, Joshua P. Schwarz, Michael Mills, Simone Tilmes, Karen Rosenlof, Daniel Murphy, NOAA ESRL and CIRES	
1AM.6 11:00	New Method to Modeling Heterogeneous Reaction of SO₂ during Haze in China. SHUPING ZHANG, Jia Xing, Biwu Chu, Hong He, Golam Sarwar, Kebin He, Yan Zhao, RCEES, CAS, China	
1AM.7 11:15	Sparse-particle Methods for Simulation of Atmospheric Aerosol. LAURA FIERCE, Robert McGraw, Brookhaven National Laboratory	
1AM.8 11:30	Constraining Aerosol Processes with a Stability-Based Inverse Model. DANA MCGUFFIN, Peter Adams, Erik B. Ydstie, Carnegie Mellon University	

1CM		CONTROL AND MITIGATION I ROOM 264 Christine McCool and Lupita Montoya, chairs
1CM.1 9:45	Comparison of Different Neutralizing Methods by IPA on Electret Filter Media. MIN TANG, Sheng-Chieh Chen, Drew Thompson, David Y. H. Pui, University of Minnesota	
1CM.2 10:00	Filtration of Liquid Aerosol on Fibrous Filters Modified with Silica Aerogel - Experimental and Modeling Study. JAKUB GAC, Bartosz Nowak, Marta Bojarska, Warsaw University of Technology	
1CM.3 10:15	Adsorption Characteristics of Sub-10nm Nanoparticles on Porous Materials. ZIYI LI, Yingshu Liu, Chuen-Jinn Tsai, Yi Xing, Pei Lu, Likun Yin, Ralph Yang, University of Science and Technology Beijing	
1CM.4 10:30	Filtration Performance of a Melt Electrospun Filter Material. DAINIUS MARTUZEVICIUS, Dalia Buivydiene, Edvinas Krugly, Darius Ciuzas, Tadas Prasauskas, Linas Kliucininkas, Kaunas University of Technology, Lithuania	
1CM.5 10:45	Filtration Performances Study of Porous Media Composing Protective Clothing Against Solid Aerosols. LOIĆ WINGERT, Ludovic Tuduri, Yves Cloutier, Stéphane Hallé, Ali Bahloul, Dominique Tessier, Jean-Luc Giraudel, Patricia Dolez, Pearl Yip, IRSST/ETS	
1CM.6 11:00	Control of Cooking Oil Fume Emission by the Combination of an Ionic Air Purifier and Bed Filter Packed with Recycled Wastes. Kuo-Pin Yu, Xuan-En Yang, Yen-Chi Chen, CHUN-HSUAN BAI, National Yang-Ming University	
1CM.7 11:15	Combined Effect of Aerosol Concentration and Humidity on Laboratory Filter Loading Experiments. QISHENG OU, David Y. H. Pui, University of Minnesota	
1CM.8 11:30	Effect of Pore Structures on Filtration Performance of Diesel Particulate Filters Based on 3-D Simulation. CHENG CHANG, Qisheng Ou, Yun Liang, David Y. H. Pui, University of Minnesota	

1DU	COMBUSTION-GENERATED AEROSOLS: THE DESIRABLE AND UNDESIRABLE I - SYNTHESIS ROOM 263 Jochen Dreyer and Ben Kumfer, chairs
1DU.1 9:45	Optical and Electronic Properties of Flame-Synthesized Carbon Nanoparticles. CHIARA SAGGESE, Ajay V. Singh, Lucy Kaye, Hai Wang, Stanford University
1DU.2 10:00	Graphene Nanosheets Produced via Controlled Detonation. Functionalities with Oxygen/Precursor Ratio. ARJUN NEPAL, Justin Wright, Stefan Bossmann, Christopher Sorensen, Kansas State University
1DU.3 10:15	Particle Formation in Combustion Environments: Importance of Charge Distributions on Evolution of Aerosol Size Distributions. YANG WANG, Girish Sharma, Michel Attoui, Pratim Biswas, Washington University in St Louis
1DU.4 10:30	Crystal Structure and Surface Composition of Coalescing Ag-Au Nano-Alloys by Molecular Dynamics Simulations. EIRINI GOUDELI, Sotiris E. Pratsinis, University of Minnesota
1DU.5 10:45	Synthesis of $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ via Low Temperature Flame Spray Pyrolysis. JOSE MADERO, Kuan-Yu Shen, Jeremy Wojtak, Tianxiang Li, Richard Axelbaum, Washington University in St. Louis
1DU.6 11:00	Effects of Droplet Diameter and Flame Temperature on Nanoparticle Formation Mechanisms in Liquid Aerosol-Fed Non-Premixed Gas Flames. CHRISTOPHER ABRAM, Maksim Mezhericher, Howard A Stone, Yiguang Ju, Princeton University
1DU.7 11:15	Pursuing Complex Materials Synthesis by Flame Spray Pyrolysis with Advanced Diagnostics. JOSEPH LIBERA, Stephen Cotty, Theodore Krause, Robert Tranter, Jan Ilavsky, Karena Chapman, Gregory Krumdick, Argonne National Laboratory
1DU.8 11:30	Two-dimensional Diagnostic of Nanoparticle Formation and Transport in Complex Flames Using Phase-selective Laser-induced Breakdown Spectroscopy. YIYANG ZHANG, Yihua Ren, Shuiqing Li, Stephen Tse, Tsinghua University

1IA	INDOOR AEROSOLS I: CHEMISTRY & COMPOSITION ANALYSIS ROOM 265/266 Donghyun Rim and Shelly Miller, chairs
1IA.1 9:45	Seasonal Variation in the Composition of Submicron Indoor Aerosols of Outdoor Origin. Anita Avery, Michael Waring, PETER DECARLO, Drexel University
1IA.2 10:00	Chemically-Resolved Particle Mass Composition in a Swedish Residence Assessed by a Time-Of-Flight Aerosol Mass Spectrometer. YULIYA OMELEKHINA, Axel C. Eriksson, Patrik Nilsson, Joakim Pagels, Aneta Wierzbicka, Lund University, Sweden
1IA.3 10:15	Evaluation of the Molecular Composition of Particle- and Gas-Phase Material in an Indoor Residential Environment using Positive Matrix Factorization. CLAIRE FORTENBERRY, Michael Walker, Audrey Dang, Arun Loka, Gauri Date, Karolina Cysneiros de Carvalho, Glenn Morrison, Brent Williams, Washington University in St. Louis
1IA.4 10:30	Study of Particulate and Gas-phase Pollutants Emitted from Household and Personal Care Products Under Various Heating and Combustion Scenarios. DONNA AUGUSTE, Shelly Miller, University of Colorado at Boulder
1IA.5 10:45	Characterization of Aerosols in the International Space Station. MARIT MEYER, NASA Glenn Research Center
1IA.6 10:45	Indoor Fine and Ultrafine Aerosol Particles Exposure and Its Relationship to the Outdoor Concentrations in Private Homes. Jiangyue Zhao, Birgit Wehner, Thomas Tuch, Kay Weinhold, Maik Merkel, Ulrich Franck, Wolfram Birmili, Anja Lüdecke, Tareq Hussein, Lina Wang, ALFRED WIEDENSOHLER, TROPOS
1IA.7 11:15	Heterogeneous Ozonolysis of Squalene Particles: Gas Phase Products Depend on Water Vapor Concentration. CALEB ARATA, Nadja Heine, Pawel Misztal, Kevin Wilson, Allen H. Goldstein, University of California, Berkeley
1IA.8 11:30	Emission and Particle Size Distribution of Polycyclic Aromatic Hydrocarbons in Oil Fumes from Domestic Cooking. YU-CHENG CHEN, Kai-Wei Ke, Chin-Yu Hsu, National Health Research Institutes, Taiwan

1IN	UNRAVELING THE MANY FACETS OF ICE NUCLEATING PARTICLES AND THEIR INTERACTIONS WITH CLOUDS I FERRARA THEATER Ryan Sullivan and Heike Wex, chairs
1IN.1 9:45	Ice Nuclei and Their Impact on Clouds in Alaska. GIJS DE BOER, Matthew Norgren, Jessie Creamean, Amy Solomon, Maximilian Maahn, Fan Mei, Hagen Telg, Allison McComiskey, CIRES/NOAA. INVITED.
1IN.2 10:00	Traces of Ice Nucleation Modes in Arctic Mixed-phase Clouds Simulated by a Habit Prediction Scheme. TEMPEI HASHINO, Gijs de Boer, Hajime Okamoto, Greg Tripoli, Kyushu University. INVITED.
1IN.3 10:15	Uncertainty of Ice Nucleating Particle Parameterizations Due to the Size Distribution of Emitted Dust Minerals in a Global Model. JAN PERLWITZ, Daniel Knopf, Ann Fridlind, Ron Miller, Climate, Aerosol, and Pollution Research, LLC
1IN.4 10:30	The Concentrations, Spatial Distribution, and Compositions of Ice Nucleating Particles in and around Stratiform Clouds over the Southern Ocean. PAUL DEMOTT, Christina McCluskey, Kathryn Moore, Thomas Hill, Ezra Levin, Cynthia Twohy, Lynn Russell, Darin Toohey, Bryan Rainwater, Greg McFarquhar, Alain Protat, Ruhi Humphries, Gerald Mace, Melita Keywood, Roger Marchand, Cory Wolff, Jeffrey Stith, Sonia Kreidenweis, Colorado State University
1IN.5 10:45	Laboratory Studies on Mechanisms Behind Bacterial Ice-Nucleation Activity. Meilee Ling, Heike Wex, Sarah Grawe, Jonas Jakobsson, Susan Hartmann, Jakob Löndahl, Kai Finster, Thomas Boesen, TINA SANTL-TEMKIV, Aarhus University, Denmark. INVITED.
1IN.6 11:00	Field Collected and Synthesized Proteinaceous Material as Ice Nucleating Particles in Immersion Freezing. NADINE BORDUAS-DEDEKIND, Robert O. David, Kristopher McNeill, Zamin Abdulali Kanji, ETH Zürich
1IN.7 11:15	The Importance of Biogenic Material to the Ice Nucleating Particle Concentration in a Coastal Tropical Site. LUIS ANTONIO LADINO, Graciela Raga, Harry Alvarez-Ospina, Manuel Andino, Irma Rosas, Leticia Martinez, Eva Salinas, Javier Miranda, Zyanya Ramirez, Bernardo Figueroa, Erika Quintana, Luis Maldonado, Agustin Garcia, Cédric Chou, Victoria Irish, Allan Bertram, Universidad Nacional Autónoma de México, Mexico City, Mexico

1IN.8 11:30	Biogenic Macromolecules from Terrestrial and Marine Biospheres Acting as Ice Nucleating Particles. DANIEL KNOFF, Joseph Charnawskas, Peter Aaron Alpert, Josephine Aller, Swarup China, Daniel Veghte, Daniel Bonanno, Alexander Laskin, Ryan Moffet, Mary Gilles, Jian Wang, Stony Brook University
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1MD	AEROSOLS IN MEDICINE I ROOM 260 Philip Kuehl and Otmar Schmid, chairs
1MD.1 9:45	Verifying the Hygroscopic Particle Growth Model during the Time Relevant to Lung Inspiration. PATRICK O'SHAUGHNESSY, Ralph Altmaier, Ross Walenga, Ching-Long Lin, University of Iowa
1MD.2 10:00	Regional Lung Deposition of Nebulized Hypertonic Saline for Trans-Nasal vs. Oral Inhalation in Healthy, Non-Smoking Adults. WILLIAM BENNETT, Kirby Zeman, Landon Holbrook, Katie Howe, Jihong Wu, David Busick, Richard Boucher, Scott Donaldson, University of North Carolina at Chapel Hill
1MD.3 10:15	Improved Prediction Of Intersubject Variability In Extrathoracic Aerosol Deposition. Conor A. Ruzycski, Michael Yang, Scott Tavernini, C. Paul Moore, Michelle L. Noga, Andrew R. Martin, Hak-Kim Chan, WARREN H. FINLAY, University of Alberta
1MD.4 10:30	Phenotyping of Chronic Obstructive Disease, COPD, from Deposition Fractions of Inhaled Nanoparticles. JAKOB LÖNDAHL, Jonas Jakobsson, H Laura Aaltonen, Eeva Piitulainen, Per Wollmer, Lund University, Sweden
1MD.5 10:45	Validating CFD Predictions of Small Particle Aerosol Deposition in a Infant Nasal Airway Model. KARL BASS, Susan Boc, Michael Hindle, Worth Longest, Virginia Commonwealth University
1MD.6 11:00	Intranasal and Tracheal Deposition of Dry Particles in 3D Physical Models of Rhesus Macaques. JANA KESAVAN, Valerie J. Alstadt, Jerold Bottiger, Beth Laube, US ARMY ECBC
1MD.7 11:15	In Vitro Determination of Combivent and Spiriva Respimat Dose Delivery in Simulated Spontaneously Breathing Tracheostomy Patients. RYM MEHRI, Abubakar Alatrash, Edgar A. Matida, Fiorenza Frank, Carleton University, Ottawa, ON, Canada

1MD.8 11:30	Human Nasal Olfactory Deposition of Inhaled Nanoparticles. LIN TIAN, Yidan Shang, Jingliang Dong, Kiao Inthavong, Jiyuan Tu, RMIT University
10F	OXIDATION FLOW REACTOR: DEVELOPMENT, CHARACTERIZATION, AND APPLICATION TO AEROSOLS I ROOM 276 Qi Chen and Olli Sippula, chairs
10F.1 9:45	Chlorine and Nitrate Radical Generation in Oxidation Flow Reactors. ANDREW LAMBE, Jordan Krechmer, Ezra Wood, William Brune, Douglas Worsnop, Aerodyne Research, Inc.
10F.2 10:00	Organic Peroxy Chemistry in Oxidation Flow Reactors and Chambers and Their Atmospheric Relevance. ZHE PENG, Julia Lee-Taylor, John Orlando, Geoffrey Tyndall, Jose-Luis Jimenez, University of Colorado-Boulder
10F.3 10:15	Modeling the Formation and Composition of Secondary Organic Aerosol in Oxidation Flow Reactors Using Simple and Detailed Chemistry and Thermodynamic Models. Sailaja Eluri, Christopher Cappa, Beth Friedman, Delphine Farmer, SHANTANU JATHAR, Colorado State University
10F.4 10:30	Aging of Selected Particulate Organic Markers in Oxidation Flow Reactors. LIN WANG, Mingyi Wang, Lei Yao, Hangfei Chen, Bowen Zhang, Xiaoyu Hu, Fudan University
10F.5 10:45	A Perspective on Developing "Wall-less" Oxidation Flow Reactors. WILLIAM BRUNE, Andrew Lambe, Pennsylvania State University
10F.6 11:00	Characterizing Photochemical Environment in the Caltech PhotoOxidation Flow Tube Reactor (CPOT). YUANLONG HUANG, Ran Zhao, John Seinfeld, California Institute of Technology
10F.7 11:15	Secondary Aerosol from Gas Emissions of Sage (SAGES): Characterizing SOA Production from Coastal Sage Scrub Plant Emissions under High and Low NO_x Conditions. CELIA FAIOLA, Chinmoy Sarkar, Jordan Krechmer, Archit Mehra, Leah Williams, Fatemeh Khalaj, Manjula Canagaratna, Alex Guenther, Dasa Gu, Arin Boghoz, Angelo Calinga, John Jayne, Douglas Worsnop, Andrew Lambe, University of California Irvine

10F.8 11:30	Real-time and Off-line Applications of Oxidative Flow Reactor (OFR) for Chemical and Physical Characterization of Secondary Organic Aerosols (SOA). YONG JIE LI, Pengfei Liu, Qi Chen, Yan Zheng, Xi Cheng, Keren Liao, Scot T. Martin, University of Macau
1RA	REMOTE/REGIONAL ATMOSPHERIC AEROSOL I: MARINE ENVIRONMENT ROOM 267 Rachel Chang and Joseph Woo, chairs
1RA.1 9:45	Measured Contributions to Cloud Condensation Nuclei from DMS and Sea Spray in the Marine Atmosphere. Kevin Sanchez, Chia-Li Chen, LYNN RUSSELL, Raghu Betha, Jun Liu, Derek Price, Paola Massoli, Luke Ziemba, Ewan Crosbie, Richard Moore, Markus Müller, Sven A. Schiller, Armin Wisthaler, Alex Lee, Patricia Quinn, Timothy Bates, Jack Porter, Thomas Bell, Eric Saltzmann, Robert D. Vaillancourt, Michael Behrenfeld, Scripps Institution of Oceanography
1RA.2 10:00	South African Biomass Burning Season Aerosols Observed over the Remote Southeast Atlantic Ocean on Ascension Island. ALLISON AIKEN, Paquita Zuidema, Arthur J. Sedlacek, Thomas Watson, Stephen Springston, Connor Flynn, Chongai Kuang, Janek Uin, Manvendra Dubey, Los Alamos National Lab
1RA.3 10:15	Marine Boundary Layer Aerosol in Eastern North Atlantic: Seasonal Variations and the Key Controlling Processes. GUANGJIE ZHENG, Tamara Pinterich, Allison Aiken, Robert Bullard, Edward Luke, Pavlos Kollias, Chongai Kuang, Stephen Springston, Janek Uin, Thomas Watson, Rob Wood, Jian Wang, Brookhaven National Laboratory
1RA.4 10:30	Free Tropospheric Aerosol characteristics over the North Eastern Atlantic Ocean and Its Relationship to the Marine Boundary Layer. BIRGIT WEHNER, Karine Chevalier, Silvia Henning, Kay Weinhold, Oliver Welz, Claudio Mazzoleni, Paulo Fialho, Simeon Schum, Stefano Viviani, Greg Roberts, Leibniz-Institute for Tropospheric Research
1RA.5 10:45	Molecular and Physical Characteristics of Aerosol at a Remote Marine Free Troposphere Site: Implications for Atmospheric Aging. SIMEON SCHUM, Bo Zhang, Katja Dzepina, Swarup China, Paulo Fialho, Claudio Mazzoleni, Lynn Mazzoleni, Michigan Technological University

1RA.6 11:00	Aerosol Particle Size Distributions and Compositions over the Southern Ocean in the Austral Summer of 2017. TAKUMA MIYAKAWA, Fumikazu Taketani, Masayuki Takigawa, Chunmao Zhu, Kazuhiko Matsumoto, Yutaka Tobo, Momoka Yoshizue, Yugo Kanaya, Japan Agency for Marine-Earth Science and Technology
1RA.7 11:15	Seasonal Variability of Aerosol Optical and Physical Properties from the Eastern North Atlantic (ENA) Aerosol Observing System (AOS) during 2016 and 2017. FRANCESCA GALLO, Allison Aiken, Connor Flynn, Annette Koontz, Jian Wang, Guangjie Zheng, Stephen Springston, Chongai Kuang, Janek Uin, Eduardo Azevedo, Kim Nitschke, Los Alamos National Lab
1RA.8 11:30	Variations in Composition of Particles Sampled at Different Altitudes in the North Atlantic. DANIEL VEGHTE, Swarup China, Joseph Charnawskas, Daniel Bonanno, Johannes Weis, Ryan Moffet, Mary Gilles, Daniel Knopf, Jian Wang, Alexander Laskin, Pacific Northwest National Laboratory

MONDAY | 11:45 AM - 1:15 PM

Lunch on Your Own

MONDAY | 12:00 PM - 1:00 PM

Meet Aerosol Pioneers 1

MONDAY | 12:00 PM - 1:00 PM

GAeF Board Meeting

MONDAY | 1:15 PM - 3:15 PM

Session 2: Platform

2AC	AEROSOL CHEMISTRY II: HIGHLY OXIDIZED MULTIFUNCTIONAL ORGANIC COMPOUNDS ROOM 275 Lea Hildebrandt Ruiz and Mattieu Riva, chairs
2AC.1 1:15	Organic Aerosol from Chlorine-Initiated Oxidation of Hydrocarbons. LEA HILDEBRANDT RUIZ, Dongyu S. Wang, Surya Venkatesh Dhulipala, Sahil Bhandari, Catherine Masoud, Kanan Patel, University of Texas at Austin
2AC.2 1:30	Formation of Highly Oxidized Multifunctional Organic Compounds from Chlorine Atom Initiated Oxidation of α-pinene. YONGHONG WANG, Matthieu Riva, Xie Hongbin, Liine Heikkinen, Simon Schallhart, Otso Peräkylä, Chao Yan, Markku Kulmala, Mikael Ehn, University of Helsinki
2AC.3 1:45	Probing the Role of Water in Criegee Chemistry Leading to High Molecular Weight Compounds on Aqueous Organic Surfaces. LIJIE LI, Michael Hoffmann, Agustin Colussi, California Institute of Technology
2AC.4 2:00	There's No Place Like HOM: Modeling Peroxy Radical Chemistry to Understand HOM Yields. MEREDITH SCHERVISH, Wayne Chuang, Neil Donahue, Carnegie Mellon University
2AC.5 2:15	Understanding the Fate of Highly Oxygenated Molecules in the Particle Phase Using an Extractive Electrospray Ionization Time-of-Flight Mass Spectrometer (EESI-TOF). VERONIKA POSPISILOVA, Felipe Lopez-Hilfiker, Claudia Mohr, Wei Huang, David Bell, Liine Heikkinen, Josef Dommen, Urs Baltensperger, Andre S.H. Prévôt, Jay G. Slowik, Paul Scherrer Institute
2AC.6 2:30	The Role of Highly Oxygenated Molecules in Determining the Composition of Ambient Ions in the Boreal Forest. FEDERICO BIANCHI, Olga Garmash, Xucheng He, Chao Yan, Siddharth Iyer, Matti Rissanen, Matthieu Riva, Nina Sarnela, Tuukka Petäjä, Douglas Worsnop, Markku Kulmala, Mikael Ehn, Heikki Junninen, Ida Rosendhal, Risto Taipale, Zhengning Xu, University of Helsinki
2AC.7 2:45	The Fate of Highly Oxygenated Organic Molecules in Wet Acidic Aerosols. LIINE HEIKKINEN, Matthieu Riva, Otso Peräkylä, Qiaozhi Zha, Simon Schallhart, Matti Rissanen, Tuukka Petäjä, Mikael Ehn, University of Helsinki
2AC.8 3:00	Constraining the Abundance of Oligomers in Monoterpene Secondary Organic Aerosol. CHRISTOPHER KENSETH, Yuanlong Huang, Ran Zhao, Nathan Dalleska, Caleb Hethcox, Brian Stoltz, John Seinfeld, California Institute of Technology

2AP	AEROSOL PHYSICS I ROOM 274 Timothy Raymond and Florian Ditas, chairs
2AP.1 1:15	Observation of Nucleation Size Particles in the Amazon. FLORIAN DITAS, Christopher Pöhlker, Henrique Barbosa, Joel Brito, Samara Carbone, Xuguang Chi, Bruna A. Holanda, Isabella Hrabec de Angelis, Tobias Könemann, Jing Ming, Mira L. Pöhlker, Maria Prass, Daniel Moran-Zuloaga, Marta Sá, Jorge Saturno, Hang Su, Jian Wang, David Walter, Stefan Wolff, Alessandro Araujo, Paulo Artaxo, Ulrich Pöschl, Meinrat O. Andreae, Max Planck Institute for Chemistry, Mainz, Germany
2AP.2 1:30	Investigation of Dependencies of the Condensation Behaviour on Automotive Exhaust Soot in Condensation Nuclei Counters. MARTIN KUPPER, Martin Kraft, Alexander Bergmann, CTR Carinthian Tech Research, Villach, 9524, Austria
2AP.3 1:45	Quantifying Initial Nanoparticle Growth of Organic and Inorganic Systems with the CLOUD Experiment. DOMINIK STOLZENBURG, Lukas Fischer, Martin Heinritzi, Mario Simon, Katrianne Lehtipalo, Chao Yan, Lubna Dada, Paul M. Winkler, University of Vienna
2AP.4 2:00	Laboratory Study on the Impact of Organic Vapours on Water Uptake of Aerosols. DAWEI HU, David Topping, Gordon McFiggans, University of Manchester
2AP.5 2:15	How Increased Ionization can Boost Aerosol Growth to Cloud Condensation Nuclei. MARTIN BØDKER ENGHOFF, Henrik Svensmark, Nir Joseph Shaviv, Jacob Svensmark, Technical University of Denmark
2AP.6 2:30	Ageing of Sea Spray Aerosols: Effects on Hygroscopicity and Cloud Droplet Activation. BERNADETTE ROSATI, Sigurd Christiansen, Robert Lange, Andreas Massling, Merete Bilde, Aarhus University
2AP.7 2:45	A Unifying Identity for the Work of Cluster Formation in Heterogeneous and Homogeneous Nucleation Theory. ROBERT MCGRAW, Paul M. Winkler, Paul E. Wagner, Brookhaven National Laboratory
2AP.8 3:00	Controlling and Explaining the Formation of Bimodal Aerosol Distributions in Laboratory Studies. Phoebe Belser, Hemanta Timsina, Dabrina Dutcher, TIM RAYMOND, Bucknell University

2CA	CARBONACEOUS AEROSOL I: BLACK CARBON ROOM 260 James Allan and Josh Apte, chairs
2CA.1 1:15	Understanding the Physical and Optical Properties of Black Carbon Aerosols at Delhi and Kanpur in Indo-Gangetic Plain. NAVANEETH M. THAMBAN, S.N. Tripathi, Shamjad P.M., IIT Kanpur
2CA.2 1:30	Influences of Primary Emission and Secondary Coating Formation on the Mixing State of Black Carbon-containing Particles. ALEX LEE, Chia-Li Chen, Jun Liu, Derek Price, Raghu Betha, Lynn Russell, Xiaolu Zhang, Christopher Cappa, National University of Singapore
2CA.3 1:45	Black Carbon Aerosol in a Clean Marine Environment. WALT WILLIAMS, Armin Sorooshian, Hafliði Jonsson, Richard Flagan, John Seinfeld, Andrew Metcalf, Clemson University
2CA.4 2:00	Quantifying Black Carbon Light Absorption Enhancement with a Novel Statistical Approach. CHENG WU, Dui Wu, Jian Zhen Yu, Jinan University
2CA.5 2:15	Impact of Diesel Container Truck Emissions on Carbonaceous Aerosols in a Unique Roadside Environment in Hong Kong. YEE KA WONG, Jian Zhen Yu, Hong Kong University of Science and Technology
2CA.6 2:30	Development of Size-resolved Black Carbon Particle Number Emission Inventory for Global Civil Aviation. XIAOLE ZHANG, Xi Chen, Jing Wang, ETH Zuerich
2CA.7 2:45	Physico-chemical Characterization of Small-scale Gas Flaring. Alberto Baldelli, Ramin Dastanpour, Una Trivanovic, Melina Jefferson, Jason S. Olfert, Alireza Moallemi, Kevin Thomson, Matthew Johnson, Olga Popovicheva, STEVEN ROGAK, University of British Columbia
2CA.8 3:00	Inter-Comparison of Techniques for the Measurement of Black Carbon from Biomass Burning: Influence of Optical and Chemical Properties. HANYANG LI, Kara D. Lamb, Joshua P. Schwarz, Vanessa Selimovic, Robert J. Yokelson, Gavin McMeeking, Andrew May, The Ohio State University

2CM	CONTROL AND MITIGATION II ROOM 264 Marit Meyer and Min Tang, chairs
2CM.1 1:15	An Integrated Modeling and Optimized Operating Method for Electrostatic Precipitation Process of Particulate Matters. YISHAN GUO, Yueqi Huang, Chenghang Zheng, Weiguo Weng, Yi Wang, Xiang Gao, Zhejiang University, China
2CM.2 1:30	Pollutant Emissions from Steelworks Equipped with Various Flue Gas Desulfurization Systems. QING LI, Di Wu, Xiang Ding, Xianmang Xu, JianMin Chen, Fudan University
2CM.3 1:45	Sampling Efficiency of PM10 Inlets with Different Impaction Substrates. THI-CUC LE, Krishna Kumar Shukla, Jung-Che Sung, Jia Feng, Ziyi Li, Chuen-Jinn Tsai, National Chiao Tung University
2CM.4 2:00	Performance of Compact Cyclones with Taper-Shaped Bodies. PENG WANG, Di Liu, Da-Ren Chen, Virginia Commonwealth University
2CM.5 2:15	Application of Wet Phase Transition Agglomerator for Synergistic Removal of Fine Particles and Sulfur Trioxide from Stationary Source Flue Gas. Houzhong Tan, Ruijie Cao, Renhui Ruan, Shengjie Bai, XUEBIN WANG, Yongle Du, Hexin Liu, Xi'an Jiaotong University, China
2CM.6 2:30	Evaluation of Particle Loading Performance of Two-stage Filtration System. XINJIAO TIAN, Qisheng Ou, David Y. H. Pui, University of Minnesota
2CM.7 2:45	Experimental Single Effect Analysis of the Particle Retention Efficiency of a Gas Scrubber. MICHAEL KLAUCK, Kathrin Trollmann, Jeffrey Kobalz, Robin de Winter, Hans-Josef Allelein, Forschungszentrum Jülich GmbH
2CM.8 3:00	Effects of Natural and Modified Attapulgate on the Emission of Ultrafine PM and Heavy Metals during Coal Combustion Process. YISHU XU, Xiaowei Liu, Hao Wang, Yufeng Zhang, Minghou Xu, Huazhong University of Science & Technology

2IA	INDOOR AEROSOLS II: SOURCE EMISSIONS & SENSING ROOM 265/266 Maria Venice and Lupita Montoya, chairs
2IA.1 1:15	Particle Emission and Spread by Households Activities in Danish Dwellings. LI LIU, Rasmus Lund Jensen, Adrian Ionut Cuth, Povilas Mikuta, Simule Calin Vasile, Jes Vollertsen, Aalborg University
2IA.2 1:30	Indoor PM2.5 in an Urban Zone with Heavy Wood Smoke Pollution: The Case of Temuco, Chile. HECTOR JORQUERA, Lupita Montoya, Francisco Barraza, Pontificia Universidad Catolica de Chile
2IA.3 1:45	Indoor Aerosols from Home Heating in the Navajo Nation: Sources, Health Effects, and Control. LUPITA MONTOYA, Wyatt Champion, Paul A. Solomon, Kathleen Stewart, Perry Charley, University of Colorado Boulder
2IA.4 2:00	Accuracy of Sensors in Assessing Exposure to Traffic-Related Aerosols. JENNIE COX, Seung-Hyun Cho, Sergey A. Grinshpun, James Ross, Steven Chillrud, Zheng Zhu, Roman Jandarov, Tiina Reponen, University of Cincinnati
2IA.5 2:15	Nanoparticle Resuspension from Surfaces and Resulting Exposures Due to the Use of Consumer Nanosprays in Homes. RUIKANG HE, Jie Zhang, Gediminas Mainelis, Rutgers, The State University of New Jersey
2IA.6 2:30	Health Detrimental SVOC Uptake by Infiltrating Ambient Particles Measured with Soot Particle Aerosol Mass Spectrometry. AXEL C. ERIKSSON, Christina Andersen, Anette Kraus, Jacob Kløn Nøjgaard, Per Axel Clausen, Aneta Wierzbicka, Joakim Pagels, Ergonomics and Aerosol Technology, Lund University, Sweden
2IA.7 2:45	Indoor Air Quality in an Elderly Care Center: Case-Study between 2012 and 2018. Marina Almeida-Silva, Susana Marta Almeida, Carla Viegas, VÂNIA MARTINS, Nuno Canha, Joana Lage, Sandra Cabo Verde, Carolina Correia, Inês Cunha-Lopes, C2TN, IST, Universidade de Lisboa; ESTeSL, IPL, Portugal
2IA.8 3:00	MakerSpaces: An Emerging Indoor Aerosol Exposure Source. Anthony Ramos, Justin Keller, Tim Raymond, DABRINA DUTCHER, Bucknell University

2IM	INSTRUMENTATION I: AEROSOL CHARGE & DETECTION ROOM 276 Rick Flagan and Donggeun Lee, chairs
2IM.1 1:15	Inversion of Scanning Electrical Mobility Spectrometer and SMPS Measurements. RICHARD FLAGAN, Yuanlong Huang, Amanda Grantz, California Institute of Technology
2IM.2 1:30	Improving the Accuracy and Precision Of Sub-10 nm Atmospheric Nanoparticle Measurements with a New High Flow DMPS. JUHA KANGASLUOMA, Lauri R. Ahonen, Tiia M. Laurila, Runlong Cai, Joonas Enroth, Stephany Mazon, Frans Korhonen, Pasi Aalto, Markku Kulmala, Michel Attoui, Tuukka Petäjä, University of Helsinki
2IM.3 1:45	Characterization of the Boosted 3776 Butanol TSI CPC in the Sub 2 nm Range. Activation of Sub 2nm Particles with Butanol. MICHEL ATTOUI, LISA Paris Est Creteil University France
2IM.4 2:00	Penetration Efficiency of Sub-3 nm Particles in the Sampling Line of an Electrical Mobility Size Spectrometer. YUEYUN FU, Mo Xue, Runlong Cai, Juha Kangasluoma, Jingkun Jiang, Tsinghua University
2IM.5 2:15	A Modified Real-Time Method to Measure Particle Geometric Surface Area with a Time Resolution of 1s. LIPENG SU, Qisheng Ou, Leo N.Y. Cao, David Y. H. Pui, University of Minnesota
2IM.6 2:30	Aitken's Condensation Counter: Bringing History to Life. DYLAN LEIGH-MANUELL, Suresh Dhaniyala, Clarkson University
2IM.7 2:45	Application of Size-Independent Charging of Nanoparticles for Improving DMA-Classification Performance. Yoohyun Ock, Jeonggeon Kim, Mansoo Choi, DONGGEUN LEE, Pusan National University
2IM.8 3:00	A Versatile Portable Exhaust Particle Sampling System to Extend Particle Number Measurements below 23 Nanometers. MARKUS BAINSCHEB, Alexander Bergmann, Panu Karjalainen, Jorma Keskinen, Jonathan Andersson, Athanasios Mamakos, Tero Lähde, Christoph Haisch, Oriana Piacenza, Ananias Tomboulides, Zisimos Toumasatos, Leonidas Ntziachristos, Zissis Samaras, Graz University of Technology

2IN	UNRAVELING THE MANY FACETS OF ICE NUCLEATING PARTICLES AND THEIR INTERACTIONS WITH CLOUDS II FERRARA THEATER Heike Wex and Yutaka Tobo, chairs
2IN.1 1:15	Ice Nucleating Particle Properties Relevant to Aerosol Cloud Interactions in the Himalaya Region. Shweta Yadav, Rebecca Venezia, Ryan Paerl, MARKUS PETTERS, North Carolina State University. INVITED.
2IN.2 1:30	Influence of Heterogeneous Ice Nucleation of Sea Spray Aerosol on Southern Ocean Clouds. CHRISTINA MCCLUSKEY, Paul DeMott, Thomas Hill, Kathryn Moore, Sonia Kreidenweis, Ruhi Humphries, Alain Protat, Greg McFarquhar, Susannah Burrows, Andrew Gettelman, National Center for Atmospheric Research. INVITED.
2IN.3 1:45	Surface Chemistry of Ice Nucleating Mineral Dust Particles. ALEXEI KISELEV, Alice Keinert, Alexei Nefedov, Weijia Wang, Christof Woell, Thomas Leisner, Karlsruhe Institute of Technology. INVITED.
2IN.4 2:00	Mineral Dust Aerosol Measurements throughout the Global Free Troposphere and Implications for Cirrus Formation. KARL D. FROYD, Daniel Murphy, Gregory Schill, Agnieszka Kupc, Christina Williamson, Charles Brock, Pengfei Yu, Karen Rosenlof, Huisheng Bian, Mian Chin, Peter Colarco, NOAA ESRL and CIRES, University of Colorado Boulder
2IN.5 2:15	Immersion Freezing Efficiency of Airborne Mineral Dust at Various Particle Size-classes. NAAMA REICHER, Shira Raveh-Rubin, Yinon Rudich, The Weizmann Institute of Science
2IN.6 2:30	Effect of Mineralogy, Particle Size, and Composition on the Immersion Freezing Properties of Three Central American Volcanic Ashes. LEIF JAHN, Daniel Williams, Michael Polen, William Fahy, Ryan Sullivan, Carnegie Mellon University
2IN.7 2:45	Ice-Nucleating Properties of Coal Fly Ash Particles in Cirrus Cloud Conditions. NSIKANABASI UMO, Robert Wagner, Romy Ullrich, Kristina Höhler, Naruki Hiranuma, Amanda Lea-Langton, Harald Saathoff, Alexei Kiselev, Peter G. Weidler, Heike Wex, Sarah Grawe, Jenny M. Jones, Alan Williams, Benjamin Murray, Thomas Leisner, Ottmar Möhler, Karlsruhe Institute of Technology
2IN.8 3:00	Characteristics of Ice Nuclei in the North China based on Mountain Measurements. KAI BI, Xincheng Ma, Fei Wang, Yunbo Chen, Ping Tian, Quan Liu, Delong Zhao, Gavin McMeeking, Ezra Levin, Beijing Weather Modification Office

2MS	MATERIALS SYNTHESIS I ROOM 263 Lutz Mädler and Igor Rahinov, chairs
2MS.1 1:15	A Facile Aerosol-based Synthesis of Cu-Ce-O Hybrid Nanoparticles for Synergistic Catalysis of Methane Combustion. DE-HAO TSAI, National Tsing Hua University
2MS.2 1:30	Measurements and Simulations of Nanomaterial Formation and Gas Phase Intermediates' Behavior in Buoyancy Opposed Flame Synthesis Reactor. IGOR RAHINOV, Johannes Sellmann, Sebastian Kluge, Hans Juenger, Alexey Fomin, Matthieu Raphael Lalanne, Sergey Cheskis, Christof Schulz, Hartmut Wiggers, Andreas Kempf, Irenaeus Wlokas, The Open University of Israel
2MS.3 1:45	Synthesis of Crumpled Graphene Nanostructures Decorated with Multicomponent Metal Nanoparticles in a Flame-driven High Temperature Reducing Jet Reactor. MOHAMMAD MOEIN MOHAMMADI, Santosh Srivatsa Gunturi, Shikuan Shao, Raymond Buchner, Mark Swihart, University at Buffalo - SUNY
2MS.4 2:00	Tailored Synthesis of Macroporous Pt/WO₃ Nanoaggregates via Flame Spray Pyrolysis and Their Photocatalytic Properties. OGI TAKASHI, Ghana Rinaldi Febrigia, Tomoyuki Hirano, Kikuo Okuyama, Department of Chemical Engineering, Hiroshima University
2MS.5 2:15	Flame Aerosol Integrated Role-To-Role Lamination Technique for High Performance Battery Fabrication Procedure. LUTZ MÄDLER, Michael Gockeln, Robert Kun, Suman Pokhrel, University of Bremen, Faculty of Production Engineering
2MS.6 2:30	High Throughput Screening of Precursor-Solvent Combinations for Flame Aerosol Chemistry to Design Phase Pure Li₄Ti₅O₁₂ Energy Storage Materials. SUMAN POKHREL, Florian Meirhofer, Haipeng Li, Johannes Birkenstock, Michael Gockeln, Robert Kun, Lutz Mädler, University of Bremen, Faculty of Production Engineering
2MS.7 2:45	Electrospray Atomization and Deposition of Nanoparticle Suspensions Leading to Nanostructured Porous Coatings. JOSE L CASTILLO, Santiago Martin, Daniel Rodriguez-Perez, Francisco J Higuera, Pedro L Garcia-Ybarra, Universidad Nacional de Educacion a Distancia - UNED
2MS.8 3:00	Highly Interfacial Active Janus-like Fe₂O₃ SiO₂ Nanohybrids via Flame Spray Pyrolysis Process. YANJIE HU, Yunfeng Li, Li Lu, Meifang Luo, Caixia Hao, East China University of Science & Technology

2RA	REMOTE/REGIONAL ATMOSPHERIC AEROSOL II: REMOTE ENVIRONMENT ROOM 267 Leiming Zhang and Shunsuke Nakao, chairs
2RA.1 1:15	Aerosol Enhancement in the Tropical Tropopause Layer Controlled by Deep Convection, In Situ Production, and Mixing. SHANG LIU, Pengfei Yu, Troy Thornberry, Andrew Rollins, Yuyan Cui, Karen Rosenlof, Ru-Shan Gao, University of Colorado, Boulder
2RA.2 1:30	Physico-chemical Properties of Free Tropospheric Particles at the Remote Pico Mountain Observatory, in the Azores. CLAUDIO MAZZOLENI, Lynn Mazzoleni, Paulo Fialho, Swarup China, Bo Zhang, Andrea Baccarini, Kaelan Anderson, Simeon Schum, Michigan Technological University
2RA.3 1:45	The Birthplace of Cloud Nuclei - A Global Perspective from the Atmospheric Tomography Mission. CHRISTINA WILLIAMSON, Agnieszka Kupc, Anna Hodshire, Jack Kodros, Jeffrey R. Pierce, Pengfei Yu, Karl D. Froyd, Eric Ray, Frank Erdesz, Mathews Richardson, Thaopaul Bui, Charles Brock, NOAA ESRL and CIRES, University of Colorado Boulder
2RA.4 2:00	Measurements of Black Carbon Concentration and Aerosol Light Absorption during the Finokalia Aerosol Measurement Experiment (FAME-16). ANTONIOS TASOGLU, Kalliopi Florou, Evangelos Louvaris, Aikaterini Liangou, Georges Saliba, Spyros Pandis, Carnegie Mellon University
2RA.5 2:15	Blowing Snow Influences on Aerosol Composition: Insights from Bulk and Single Particle Measurements in Coastal Antarctica. MICHAEL GIORDANO, Anita Avery, J. Doug Goetz, Lars Kalnajs, Kerri Pratt, Nathaniel May, Alex Lee, Peter DeCarlo, Drexel University
2RA.6 2:30	Arctic Aerosol Sources: Results of PMF on PM₁₀ Collected at Ny Ålesund. GIULIA CALZOLAI, Silvia Nava, Massimo Chiari, Franco Lucarelli, Fabio Giardi, Silvia Becagli, Rita Traversi, Mirko Severi, Laura Caiazza, David Cappelletti, Stefano Crocchianti, University of Florence and INFN Florence, Italy
2RA.7 2:45	Enhanced Aerosol Layer in Upper Troposphere and Lower Stratosphere over the Indian Summer Monsoon Region: A Potential Connection with Boundary Layer Pollution. ATUL K. SRIVASTAVA, Amit Misra, Vijay Kanawade, Deewan S. Bisht, Suresh Tiwari, P.C.S. Devara, Indian Institute of Tropical Meteorology

2RA.8 3:00	<p>Adsorption of Trace Atmospheric Gases in Atmospheric Boundary Layer by Dust Aerosol Particles Emitted from Arid Source Areas.</p> <p>BORIS KRASOVITOV, Tov Elperin, Itzhak Katra, Andrew Fominykh, Ben-Gurion University of the Negev, Israel</p>
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MONDAY 3:15 PM - 3:45 PM
Coffee Break

MONDAY 3:45 PM - 5:15 PM
Session 3: Platform

3AC	<p>AEROSOL CHEMISTRY III: BROWN CARBON AND ABSORBING SPECIES ROOM 275</p> <p>Lelia Hawkins and Masao Gen, chairs</p>
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3AC.1 3:45	<p>Not Fade Away: Photolytic Brown Carbon Formation in Aqueous Aerosol.</p> <p>DAVID DE HAAN, Devoun Stewart, Tobin Gramyk, Alexia De Loera, Duncan Ugland, Christian Carmona, Antonio Rojas, University of San Diego</p>
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3AC.2 4:00	<p>Enhanced Formation of Brown Carbon Particles at Low Relative Humidity.</p> <p>Masao Gen, Dandan Huang, CHAK K. CHAN, City University of Hong Kong</p>
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3AC.3 4:15	<p>Effect of Relative Humidity on Light Absorbing Secondary Organic Aerosol Formation.</p> <p>NETHMI KASTHURIARACHCHI, Alex Lee, National University of Singapore</p>
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3AC.4 4:30	<p>Marine Organics Alters Sea Spray Physicochemical and Radiative Properties.</p> <p>Aditya Vaishia, JURGITA OVADNEVAITE, Darius Ceburnis, Colin O'Dowd, Vikram Sarabhai Space Centre</p>
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3AC.5 4:45	<p>Impact of Springtime Southeast Asia Biomass Burning on a High-mountain Background Station in East Asia: Aerosol Composition and Light Extinction.</p> <p>SHANTANU KUMAR PANI, Neng-Huei Lin, Chung-Te Lee, Ta-Chih Hsiao, Sheng-Hsiang Wang, National Central University, Taiwan</p>
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3AC.6 5:00	<p>Evidence for Pyrazine-Based Chromophores in Cloudwater Mimics Containing Methylglyoxal and Ammonium Sulfate.</p> <p>LELIA HAWKINS, Hannah G. Welsh, Matthew V. Alexander, Harvey Mudd College</p>
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3CM	<p>CONTROL AND MITIGATION III ROOM 264</p> <p>Herek Clack and Wei-Chung Su, chairs</p>
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3CM.1 3:45	<p>Co-benefit of Carbon Dioxide and Air Pollutants Emission Reductions by the Air Pollution Prevention and Control Action Plan in the Beijing-Tianjin-Hebei Region of China.</p> <p>ZHENYU LU, Jun Liu, Mindong Chen, Jianlin Hu, Nanjing University of Information Science & Technology</p>
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3CM.2 4:00	<p>Aeolian Dust Deposition and Removal on Surrogate Surfaces with Implications in Solar Energy.</p> <p>Benjamin Figgis, BING GUO, Wasim Javed, Said Ahzi, Yves Rémond, Texas A&M University at Qatar</p>
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3CM.3 4:15	<p>Efficacy Assessment of Vegetative Environmental Buffer in Reducing Particulate Matter Emitted from Poultry Houses.</p> <p>QI YAO, Zijiang Yang, Hong Li, Michael Buser, John Wanjura, Peter Downey, Chen Zhang, Collin Craige, Alba Torrents, Laura McConnell, Gregory Holt, Cathleen Hapeman, University of Maryland, College Park</p>
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3CM.4 4:30	<p>Development of Hybrid Dust Collector Installed at the In-use Trains for Removing Aerosols in Underground Subway Tunnels.</p> <p>Sang-Hee Woo, SEUNG-BOK LEE, Jong Bum Kim, Jae-In Lee, Gwi-Nam Bae, Moon Se Hwang, Hwa Hyun Yoon, Hong Ryang Jang, Eunserb An, Korea Institute of Science and Technology</p>
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3CM.5 4:45	<p>The Effectiveness of Roadside Vegetation Barriers as a Near-Road Air Pollution Mitigation Strategy: A Comprehensive Evaluation of the Sensitivity to Leaf Area Density.</p> <p>KHALED HASHAD, K. Max Zhang, Pradeep S. Prathibha, Jay R. Turner, Daniel Fleischer, Cornell University</p>
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3CM.6 5:00	<p>Large Scale PM2.5 Cleaning System for Targeted Area with Several Square Kilometers.</p> <p>SHENG-CHIEH CHEN, Min Tang, Qingfeng Cao, David Y. H. Pui, University of Minnesota</p>
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3ED	<p>AEROSOL EDUCATION I ROOM 267</p> <p>Antti Lauri and Timothy Raymond, chairs</p>
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3ED.1 3:45	<p>Teaching Practical Aerosol Science in the UK.</p> <p>PAUL WILLIAMS, James Allan, Torsten Tritscher, University of Manchester and NCAS</p>
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3ED.2 4:00	<p>Hands-On Aerosol Science and Technology Workshops in the Colorado Front Range.</p> <p>SHANTANU JATHAR, John Volckens, Christian L'Orange, Nicholas Good, David Leith, Sherrie Elzey, Aaron Avenido, Tim Johnson, Andrea Tiwari, Colorado State University</p>
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3ED.3 4:15	The Earth's Climate and Human Health Taught through the Lens of Clean Cookstoves. DEBORAH GROSS, Tsegaye Nega, Carleton College
3ED.4 4:30	Introduction to Aerosols Tutorials. RICHARD FLAGAN, California Institute of Technology
3ED.5 4:45	Air Quality Board Game: A Cooperative Board Game to Play in Class. SAMARA CARBONE, Guilherme Santa Cecilia, Lucas Chiari Couver, Frederico Coelho, Jayder Pereira, Amanda Souza, Felipe Roberto Rodrigues, Felipe Jose Carbone, Federal University of Uberlândia
3ED.6 5:00	McDonnell Academy Energy and Environment Partnership (MAGEEP) Education Network: MAGENet. BEDIA KARAKOÇAK, Tandeep Chadha, Jeff Yang, Orhan Yenigun, Prasad Modak, Pratim Biswas, Washington University in St Louis

3IA	INDOOR AEROSOLS III: AIR PURIFICATION & CASE STUDIES ROOM 265/266 Jeff Sigel and Vânia Martins, chairs
3IA.1 3:45	Evaluation of Mobile Air Purifiers under Realistic Conditions. STEFAN SCHUMACHER, Daniel Spiegelhoff, Miriam Küpper, Ute Schneiderwind, Hartmut Finger, Christof Asbach, Institut für Energie- und Umwelttechnik e.V. (IUTA)
3IA.2 4:00	Measurement of the Fractional Deposition Efficiency of Full Scale HVAC and HEPA Filters for Nanoparticles ≥ 4 nm. CHRISTOF ASBACH, Tobias Schuldt, Frank Schmidt, Wolfgang Mölter-Siemens, Ana Maria Todea, IUTA, Duisburg, Germany
3IA.3 4:15	Quantitative Filter Forensics to Assess Indoor Exposures. Raheleh Givvehchi, Juan Pedro Maestre, Chenyang Bi, Kerry Kinney, Ying Xu, Dennis Wylie, Sharon Horner, JEFFREY SIEGEL, University of Toronto
3IA.4 4:30	Application of the Time-of-Wetness Model to Fungal Growth in Carpet Dust. SARAH HAINES, Karen C. Dannemiller, Ohio State University
3IA.5 4:45	Managing Indoor Air Quality in ClimACT Schools. Susana Marta Almeida, Patrice Blondeau, Vitor Manteigas, Joana Lage, Ana D'Espiney, MARINA ALMEIDA-SILVA, Nuno Canha, Vânia Martins, Tiago Faria, Karla Gonçalves, José Luís Alexandre, Ricardo Chacartegui, Jesus Lizana, José António Becera, Ana Gamarra, Yolanda Lechon Perez, Amaia Fernandes, C2TN, IST, Universidade de Lisboa, Portugal

3IA.6 5:00	Estimates of Fine and Ultrafine Particle Removal Efficiency for Residential HVAC Filters Using In-Situ Size-Resolved Efficiency Measurements. TORKAN FAZLI, Brent Stephens, Illinois Institute of Technology
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3IN	UNRAVELING THE MANY FACETS OF ICE NUCLEATING PARTICLES AND THEIR INTERACTIONS WITH CLOUDS III FERRARA THEATER Yutaka Tobo and Ryan Sullivan, chairs
3IN.1 3:45	The Role of Ice Nucleating Particles in Convective Aggregation. HASSAN BEYDOUN, Corinna Hoose, Karlsruhe Institute of Technology. INVITED.
3IN.2 4:00	Molecular Perspective on Water Vapor Deposition onto Ice Surfaces. Daniel Schlesinger, Samuel J. Lowe, Xiangrui Kong, TINJA OLENIUS, Jan B. C. Pettersson, Ilona Riipinen, Stockholm University
3IN.3 4:15	Sensitivity of Ice Cloud Formation and Precipitation Initiation to Global Distribution and Abundance of Ice Nucleating Particles in E3SM. KAI ZHANG, Xiaohong Liu, Hui Wan, Pacific Northwest National Laboratory
3IN.4 4:30	Evaluation of Immersion Freezing Properties of Dark-Colored Particles under Mixed-Phase Cloud Conditions. YUTAKA TOBO, Nobuhiro Moteki, Kouji Adachi, Sho Ohata, Atsushi Yoshida, Makoto Koike, Yutaka Kondo, National Institute of Polar Research
3IN.5 4:45	The Development and Characterization of a "Store and Create" Microfluidic Device to Study Ice Nucleation Particles. THOMAS BRUBAKER, Michael Polen, Leif Jahn, Perry Cheng, Vinay Ekambaram, Shelley Anna, Ryan Sullivan, Carnegie Mellon University
3IN.6 5:00	Enhancement of the Heterogeneous Ice Nucleation by the Phase State Change of Organic Aerosols. YUE ZHANG, Martin Wolf, Leonid Nichman, Zhenfa Zhang, Avram Gold, John Jayne, Paul Davidovits, Douglas Worsnop, Jason Surratt, Timothy Onasch, Daniel Cziczo, MIT; Aerodyne Research, Inc.; UNC Chapel Hill

3MD		AEROSOLS IN MEDICINE II ROOM 260 Andrew Martin and William Bennett, chairs
3MD.1 3:45	Improving Single Particle Aerosol Mass Spectrometry (SPAMS) Inhalation Analytics Performance through Rapid Particle Tracking and Sizing. Martin Jetzer, Bradley Morrical, DAVID FERGENSON, Georgios Imanidis, Novartis Pharma AG	
3MD.2 4:00	Directly Measuring the Rapid Evaporation/Growth of Metered Dose Inhaler/Dry Powder Inhaler/Nebulizer Formulations. ALLEN E. HADDRELL, David Lewis, Tanya Church, Jonathan P. Reid, University of Bristol	
3MD.3 4:15	Biokinetics of Aerosolized Liposomal Cyclosporin a in Human Lung Cells in Vitro Using an Air-Liquid Cell Exposure System (Alice). OTMAR SCHMID, Corinne Jud, Yuki Umehara, Dominik Mueller, Albert Bucholski, Friedrich Gruber, Oliver Denk, Roman Egle, Alke Petri-Fink, Barbara Rothen-Rutishauser, Helmholtz Zentrum Munchen, Comprehensive Pneumology Center	
3MD.4 4:30	Formulation Development and In Vivo Pharmacokinetics of Topotecan for Targeted Treatment of Lung Cancer. PHILIP KUEHL, Michael Burke, Ramesh Chand, Devon Dubose, June Liu, Mathewos Tessema, Lovelace Biomedical, 2425 Ridgecrest Dr. SE, Albuquerque, NM	
3MD.5 4:45	Electrospray Functionalization of Titanium Dioxide Nanoparticles with Transferrin for Photodynamic Cancer Therapy. NATHAN REED, Ramesh Raliya, Rui Tang, Samuel Achilefu, Pratim Biswas, Washington University in St. Louis	
3MD.6 5:00	Synthesis of Large-Pore Submicron Mesoporous Silica using Salt-Assisted Spray Pyrolysis Method for Controlled Release Drug Delivery. Masoom Shaban, Jalal Poostforooshan, Sarah Reiser, Michael Türk, ALFRED P. WEBER, TU Clausthal	
3MS		MATERIALS SYNTHESIS II ROOM 263 Fiona Smail and Necip Uner, chairs
3MS.1 3:45	Using Aerosol Photoemission (Ape) for On-Line Process Monitoring of Gas-Phase Particle Modifications. JANNIS RÖHRBEIN, Alfred Weber, Clausthal University of Technology	

3MS.2 4:00	Aerosol-assistant Synthesis of Sodium Tungsten Bronze Oxide for UV and IR Shielding. HAO TU, Wei-Ning Wang, Da-Ren Chen, Virginia Commonwealth University	
3MS.3 4:15	Electric Current-Induced Formation of Defects in Columnar TiO₂ Single Crystals under UV Irradiation for Enhanced CO₂ Photoreduction. YAO NIE, Pratim Biswas, Washington University in St. Louis	
3MS.4 4:30	Surface Enhanced Raman Scattering of Silicon Quantum Dots Generated by Laser Ablation. Eisuke Okuchi, TAKAFUMI SETO, Mohamed Abd El-Aal, Makoto Hirasawa, Kanazawa University	
3MS.5 4:45	Synthesis of Silicon Nanoparticles with Controlled Morphology from Silane Pyrolysis in a Helium Atmosphere and Its Relative Nucleation and Condensation Rates. MIGUEL VAZQUEZ PUFLEAU, Martin Yamane, Pratim Biswas, Elijah Thimsen, Washington University in St. Louis	
3MS.6 5:00	Kinetics of CNT Growth for Aerogelation in FC-CVD Synthesis. FIONA SMAIL, Brian Graves, Adam M Boies, University of Cambridge	
3OF		OXIDATION FLOW REACTOR: DEVELOPMENT, CHARACTERIZATION, AND APPLICATION TO AEROSOLS II ROOM 276 Zhe Peng and Celia Faiola, chairs
3OF.1 3:45	Using Oxidation Flow Reactors for Studying the Effect of SOA Aging on Optical Properties and Health Effects. YINON RUDICH, Weizmann Institute of Science	
3OF.2 4:00	Heterogeneous Oxidation of Brown Carbon Aerosol Diminishes Light Absorption. BENJAMIN SUMLIN, Apoorva Pandey, Michael Walker, Robert Pattison, Brent Williams, Rajan K. Chakrabarty, Washington University in St. Louis	
3OF.3 4:15	Ultraviolet and Visible Complex Refractive Indices of Secondary Organic Aerosol Produced by Photooxidation of α-pinene and Naphthalene in the Presence of Nitrogen Oxides. QUANFU HE, Chunlin Li, Yinon Rudich, Weizmann Institute of Science	
3OF.4 4:30	Formation and Aging of Secondary Organic Aerosol from Aromatic Compounds. QI CHEN, Yong Jie Li, Xi Cheng, Yan Zheng, Keren Liao, Ying Liu, Tong Zhu, Peking University	

3OF.5 4:45	A High Volume Laminar Flow Reactor to Investigate the Influence of Photochemical Aging on the Health-related Properties of Combustion Emission: Method Characterization and Utilization to Investigate Wood Combustion Emissions. OLLI SIPPULA, Petri Tiitta, Mika Ihalainen, Pasi Yli-Pirilä, Anni Hartikainen, Tuukka Ihanola, Pasi Jalava, Ari Leskinen, Jarkko Tissari, Miika Kortelainen, Heikki Suhonen, Ralf Zimmermann, Maija-Riitta Hirvonen, Jorma Jokiniemi, University of Eastern Finland, Kuopio, Finland
3OF.6 5:00	Secondary Organic Aerosol Yield, Volatility, and Viscosity from Smog Chamber and Flow Reactor Experiments. WYATT CHAMPION, Sarah Suda Petters, Nicholas Rothfuss, Markus Petters, Andrew Grieshop, North Carolina State University

3RA	REMOTE/REGIONAL ATMOSPHERIC AEROSOL III: AIR QUALITY IN ASIA ROOM 274 Chak Chan and Lin Du, chairs
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3RA.1 3:45	Spatial and Seasonal Variation of Particulate Matter Concentration in Kharagpur-A Mid Sized Town in India. NEHA RANI, B.S Sastry, Kaushik Dey, Indian Institute Of Technology Kharagpur
3RA.2 4:00	Spatial Variation in Aerosol Chemical Composition and Source Contribution in Nepal from Aerosol Mass Spectrometry Measurements. BENJAMIN WERDEN, Michael Giordano, J. Doug Goetz, Khadak Mahata, Narayan Babu Dhital, Nita Khanal, Amit Bhujel, Sagar Adhikari, Siva Praveen Puppala, Maheswar Rupakheti, Prakash Bhawe, Robert J. Yokelson, Elizabeth Stone, Arnico Panday, Peter DeCarlo, Drexel University
3RA.3 4:15	Spatial Distributions and Trends in Aerosol Optical Depth (AOD) from CERES-derived and AERONET-measured over South Asia. NEELES LODHI, Naresh Kumar Soora, Sachchidanand Singh, ICAR-IARI, New Delhi India
3RA.4 4:30	Understanding the High-Resolution Size Distribution of Organic Species over the Indo-Gangetic Plain. NAVANEETH M. THAMBAN, S.N. Tripathi, Bhuvana Joshi, Donna Sueper, Manjula Canagaratna, IIT Kanpur
3RA.5 4:45	Aerosol Characteristics during Intense Crop Residue Burning: A Case Study Over Indo-Gangetic Plain. NANDITA SINGH, Vishnu Murari, Rajesh Kumar Mall, R.S. Singh, Tirthankar Banerjee, Institute of Environment and Sustainable Development, BHU

3RA.6 5:00	One Year Vertically Resolved Optical Closure Study of Aerosol Properties at a Meteorological Tower in Western Europe. Julia Perim Faria, ULRICH BUNDKE, Sebastian H. Schmitt, Thomas F. Mentel, Timothy Onasch, Andrew Freedman, Astrid Kiendler-Scharr, Andreas Petzold, Forschungszentrum Jülich
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MONDAY 5:15 PM - 6:15 PM
Working Group Meetings 1

MONDAY 5:15 PM - 6:15 PM
GAeF General Assembly

MONDAY 6:15 PM - 8:30 PM
Session 4: Poster

4AC	AEROSOL CHEMISTRY IV: POSTERS EXHIBIT HALL 5 Andrew Ault and Tran Nguyen, chairs
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4AC.1 6:15	Heterogeneous Reaction of Isoprene and Ozone on α-Al₂O₃ Particles Using Micro-FTIR Spectroscopy. Hongyang Lian, Pang Shufeng, YUNHONG ZHANG, Beijing Institute of Technology
4AC.2 6:15	Methylthreonic, Methylerythronic, and Methyltartaric acids: Highly Oxygenated Markers for Isoprene Secondary Organic Aerosol Aging. MOHAMMED JAOUI, Rafal Szmigielski, Nestorowicz Klara, A. Kolodziejczyk, K.J. Rudzki ski, W. Danikiewicz, Michael Lewandowski, Tad Kleindienst, EPA/ORD/NERL
4AC.3 6:15	The Effect of Temperature on Secondary Organic Aerosol Formation from Evaporated Fuels and Aromatic Compounds under Daytime and Nighttime Conditions. JEFF BEAN, Shaokai Gao, Terry Lathem, Phillips 66
4AC.4 6:15	Characterization of Isoprene-derived Secondary Organic Aerosols at a Rural Site in North China Plain with Implications for Anthropogenic Pollution Effects. JIANJUN LI, Gehui Wang, Institute of Earth Environment, CAS

4AC.5 6:15	IEPOX Uptake Changes Particle Morphology and Viscosity. NICOLE OLSON, Ziyang Lei, Rebecca Craig, Yue Zhang, Yuzhi Chen, Jason Surratt, Andrew Ault, University of Michigan	4AC.14 6:15	Formation of Secondary Organic Aerosol from Photo-Oxidation of Benzene. SEBASTIAN H. SCHMITT, Thomas F. Mentel, Jürgen Wildt, Einhard Kleist, Iida Pullinen, Ying Liu, Baolin Wang, Defeng Zhao, Astrid Kiendler-Scharr, Forschungszentrum Jülich
4AC.6 6:15	Characterization of PM_{2.5} in Swine Confinement Buildings. Mengdi Tang, Kun Feng, RONGBIAO XIANG, Huazhong Agricultural University	4AC.15 6:15	Effects of NO_x and SO₂ on the Secondary Organic Aerosol Formation from Photooxidation of α-pinene and Limonene. DEFENG ZHAO, Sebastian H. Schmitt, Mingjin Wang, Ismail-Hakki Acir, Ralf Tillmann, Zhaofeng Tan, Anna Novelli, Hendrik Fuchs, Iida Pullinen, Robert Wegener, Franz Rohrer, Jürgen Wildt, Astrid Kiendler-Scharr, Andreas Wahner, Thomas F. Mentel, Forschungszentrum Jülich
4AC.7 6:15	A Simplified Parameterization of Isoprene Epoxydiols Derived Secondary Organic Aerosol (IEPOX-SOA) for Global and Climate Models. DUSEONG JO, Alma Hodzic, Louisa Emmons, Eloise Marais, Zhe Peng, Weiwei Hu, Pedro Campuzano-Jost, Jose-Luis Jimenez, University of Colorado Boulder	4AC.16 6:15	Characterization of Particulate Matter Sources in Summer Using High-Resolution Aerosol Mass Spectrometry in San Antonio. FANGZHOU GUO, Benjamin Schulze, Alexander Bui, Henry Wallace, James Flynn, Matthew H. Erickson, Sergio Alvarez, Alex Kotsakis, Subin Yoon, Sascha Usenko, Rebecca Sheesley, Robert Griffin, Rice University
4AC.8 6:15	Compositional Analysis of Aerosols and Rain Water during Weak South-west Monsoon Period. PRADHI RAJEEV, Prashant Rajput, Gyanesh Kumar Singh, Vikram Choudhary, Amit Kumar Singh, Tarun Gupta, Indian Institute of Technology Kanpur	4AC.17 6:15	Hygroscopic Behaviours of Inorganic/Organic Mixtures Including Ammonium sulfate, Dicarboxylic Acid and Oligomer. HICHEM BOUZIDI, Andreas Zuend, Jakub Ondráček, Jaroslav Schwarz, Vladimír Ždimal, Institute of Chemical Process Fundamentals of the CAS
4AC.9 6:15	A Multi-Season Investigation of Non-Combustion-Related Emissions of Gas-Phase Organic Compounds in Two Major U.S. Cities. PEEYUSH KHARE, Jenna Ditto, Taekyu Joo, Nga Lee Ng, Drew Gentner, Yale University	4AC.18 6:15	Accelerated Chemistry in Microdroplets: Reaction of Aldehyde Functionalities in α-Pinene Secondary Organic Aerosol with a Derivatizing Agent. YAO ZHANG, Murray Johnston, University of Delaware
4AC.10 6:15	Automated Organic Aerosol Measurement with Quartz Filter-based Thermal Desorption Gas Chromatography Mass Spectrometry (TAG). HAIXIA REN, Mo Xue, Zhaojin An, Wei Zhou, Jingkun Jiang, Tsinghua University, Beijing, 100084, China	4AC.19 6:15	Multiphase Product Distributions for Aqueous-phase Oxidation of Water-soluble Organic Compounds in Bulk Solution and Submicron Particles. KEVIN NIHILL, Christopher Lim, James Rowe, Martin Breitenlechner, Alexander Zaytsev, Joshua L. Cox, Frank Keutsch, Jesse Kroll, MIT
4AC.11 6:15	Size and Composition Dependent Seed Particle Growth by α-Pinene Ozonolysis. JUSTIN KRANMOWITZ, Michael J. Apsokardu, Chris Stangl, Shanhu Lee, Murray Johnston, University of Delaware	4AC.20 6:15	Exploring the Autoxidation Mechanisms of Aromatic VOCs. RUBY MARTEN, Mao Xiao, Lukas Fischer, Bernhard Mentler, Mario Simon, Martin Heinritzi, Olga Garmash, Christopher R. Hoyle, Andrea Baccharini, Chuan Ping Lee, Houssni Lamkaddam, Imad El Haddad, Josef Dommen, Urs Baltensperger, CLOUD Collaboration, Paul Scherrer Institute
4AC.12 6:15	Application of Spin Traps to Detect Reactive Intermediates and Reactive Oxygen Species in Secondary Organic Aerosol. STEVEN J. CAMPBELL, Chiara Giorio, Peter J. Gallimore, Svetlana Stevanovic, Branka Miljevic, Steven Bottle, Zoran Ristovski, Markus Kalberer, University of Cambridge	4AC.21 6:15	PIXE Analysis of PM_{2.5} Atmospheric Aerosols in a Two Year Monitoring in Mexico City. VALTER ARMANDO BARRERA, Raul Venancio Diaz, Javier Miranda, Giulia Calzolari, Silvia Nava, Martina Giannoni, Franco Lucarelli, CONACYT- CIACYT/ UASLP, Mexico
4AC.13 6:15	The Effect of Gasoline Car Exhaust on the Photochemistry of α-Pinene. EETU KARI, Liqing Hao, Sini Isokääntä, Arttu Ylisirniö, Ari Leskinen, Pasi Yli-Pirilä, Celia Faiola, Santtu Mikkonen, Annele Virtanen, University of Eastern Finland		

4AC.22 6:15	Vertical Characterization of Highly Oxygenated Molecules (HOM) Below and Above a Boreal Forest Canopy. QIAOZHI ZHA, Chao Yan, Heikki Junninen, Matthieu Riva, Juho Aalto, Lauriane Quéléver, Simon Schallhart, Lubna Dada, Liine Heikkinen, Otso Peräkylä, Jun Zou, Clemence Rose, Yonghong Wang, Ivan Mammarella, Timo Vesala, Douglas Worsnop, Gabriel Katul, Markku Kulmala, Tuukka Petäjä, Federico Bianchi, Mikael Ehn, University of Helsinki
4AC.23 6:15	Fine Particle pH in Urban Guangzhou, a Megacity of South China. ZHISHENG ZHANG, Jun Tao, Leiming Zhang, Zejian Lin, South China Institute of Environmental Sciences
4AC.24 6:15	The Presence of Phenanthrene Oxidation Products in α-Pinene Secondary Organic Aerosol Particles. AMBER KRAMER, Kaitlyn J. Suski, Alla Zelenyuk, Staci L. Simonich, Oregon State University
4AC.25 6:15	Clustering of Sulfuric Acid, Bisulfate Ion and Organonitrate C₁₀H₁₅O₁₀N: Thermodynamics and Atmospheric Implications. JASON HERB, Alexey Nadykto, Kirill Nazarenko, Nikolai Korobov, Fangqun Yu, SUNY at Albany
4AC.26 6:15	SOA Formation from Toluene Oxidation in the Presence of Nox: The Importance of Relative Humidity. DAO HUANG, Yunle Chen, Masayuki Takeuchi, Taekyu Joo, Steve Kim, Gamze Eris, Nga Lee Ng, Zhejiang University
4AC.27 6:15	Modeling the Impact of Cookstove Emissions on Ambient Aerosol in Rural India. BRIGITTE ROONEY, Kirk Smith, John Seinfeld, Ajay Pillarisetti, Rufus Edwards, Lauren Fleming, Sergey Nizkorodov, Tami Bond, Nicholas Lam, Sumit Sharma, Seema Kundu, Shaocai Yu, Pengfei Li, Kelvin Bates, Ran Zhao, California Institute of Technology
4AC.28 6:15	A Laboratory and Modeling Investigation on the Effects of Ammonia Uptake on SOA Composition and Its Potential Impacts on Air Quality. JULIA MONTOYA-AGUILERA, Mallory Hinks, Jeremy Horne, Shupeng Zhu, Donald Dabdub, Sergey Nizkorodov, University of California, Irvine
4AC.29 6:15	Secondary Organic Aerosol Production from Healthy and Aphid-Stressed Scots Pine Biogenic Volatile Organic Compound Emissions in Different Oxidant Systems. FATEMEH KHALAJ, Celia Faiola, Angela Buchholz, Eetu Kari, Arttu Ylisirniö, Minna Kivimäenpää, Jarmo Holopainen, Annele Virtanen, University of California, Irvine

4AC.30 6:15	Characteristics of PM_{2.5} and Gaseous Precursor in Urban and Background Areas in Korea. TAEHYUN PARK, Jihee Ban, Seokwon Kang, Gyutae Park, Kyunghoon Kim, Min Seok Song, Seung Hwan Lee, Jannatul Maa, Hye Jung Shin, Jong Sung Park, Seung Myung Park, Jun Oh, Mindo Lee, Sang-Bo Lee, Jeong Soo Kim, Dong-Gil Yu, Taehyoung Lee, Hankuk University of Foreign Studies, Yongin, South Korea
4AC.31 6:15	Reactions between SO₂ and Organic Peroxides and Their Role as Atmospheric Sinks of Sulfur. SHUNYAO WANG, Shouming Zhou, Ye Tao, Jianhui Ye, Jian Zhen Yu, Jennifer G. Murphy, Jonathan Abbatt, Arthur W. H. Chan, University of Toronto
4AC.32 6:15	The Effect of Chemistry and Particle Total Surface Area on Loss Rate of Highly Oxidized Multifunctional Organic Molecules (HOMs). IIDA PULLINEN, Jürgen Wildt, Einhard Kleist, Monika Springer, Cheng Wu, Stefanie Andres, Sebastian H. Schmitt, Andreas Wahner, Thomas F. Mentel, University of Eastern Finland
4AC.33 6:15	Secondary Organic Aerosol Formation from Methylfurans by Nitrate Radical Oxidation. TAEKYU JOO, Masayuki Takeuchi, Matthew Alvarado, Nga Lee Ng, Georgia Institute of Technology
4AC.34 6:15	Soil Spreading of Organic Waste Products: Source of Secondary Organic Aerosols. RALUCA CIURARU, Corentin Berger, Pauline Buysse, Yvain Carpentier, Céline Decuq, Cristian Focsa, Sophie Genermont, Sylvie Gosselin, Sabine Houot, Julien Kammer, Florence Lafouge, Benjamin Loubet, Nicolas Visez, Denis Petitprez, INRA
4AC.35 6:15	PRAPPE: Trace Element Interaction with Organic Compounds in Urban and Crustal PM. JOSEPH SALAZAR, David Pfothenauer, Frank Leresche, Fernando Rosario-Ortiz, Michael Hannigan, Brian Majestic, University of Denver
4AC.36 6:15	Analysis of Gas-phase and Particulate Reaction Products from High-NO_x Photooxidation of n-dodecane: Influence of Temperature and Relative Humidity on Secondary Organic Aerosol Formation. HOUSSNI LAMKADDAM, Aline Gratién, Edouard Pangui, Mathieu Cazaunau, Marc David, Jean-Michel Polienor, Murielle Jerome, Cécile Gaimoz, Bénédicte Picquet-Varrault, Jean-François Doussin, LISA, Universités Paris-Est-Créteil et Paris Diderot
4AC.37 6:15	Distribution of Oxidized Products Formed from the Oxidation of Alpha-Pinene: SOA Formation Linked to RO₂ Chemistry. MATTHIEU RIVA, Otso Peräkylä, Pekka Rantala, Jordan Krechmer, Liine Heikkinen, Yanjun Zhang, Juha Kangasluoma, Tiia M. Laurila, Lauri R. Ahonen, Olga Garmash, Chao Yan, Matti Rissanen, Mikael Ehn, University of Helsinki

4AC.38 6:15	Reactions between Small Atmospheric Carbonyls and Ammonium Sulfate. MELISSA GALLOWAY, Daisy Grace, Melissa Sebold, Rachael Holappa, Jessica Ackendorf, Lafayette College	4AE.2 6:15	Indoor-Outdoor Particulate Relationship and Its Metal Bound Concentrations in Domestic Homes of 'World Heritage Site' Agra, India. HIMANSHI ROHRA, Ajay Taneja, DR. B.R.A. University, Agra, India
4AC.39 6:15	Molecular Insights from Ultrahigh Resolution Orbitrap Mass Spectrometry on Aqueous Phase Processing of Ambient Biomass Burning Emissions Influenced Po Valley Fog and Aerosol. MATTHEW BREGE, Tyler Leverton, Stefania Gilardoni, Stefano Decesari, Marco Paglione, M. Cristina Facchini, Lynn Mazzoleni, Michigan Technological University	4AE.3 6:15	Effect of Particle Morphology on Performance of an Electrostatic Air-Liquid Interface Cell Exposure System. TA-CHIH HSIAO, Jing-Chi Lin, Hsiao-Chi Chuang, Tsun-Jen Cheng, National Central University
4AC.41 6:15	Effect of Aqueous-Phase Processing on Formation and Evaluation of the Organic Aerosol during Fog Processing in Kanpur, India. ANIL KUMAR MANDARIYA, Tarun Gupta, S.N. Tripathi, Indian Institute of Technology Kanpur	4AE.4 6:15	Determination of Inhalation Exposure due to the Use of Eyebrow Powders. HYEON-JU OH, Taewon T. Han, Gediminas Mainelis, Rutgers, The State University of New Jersey
4AC.42 6:15	Gas-Particle Partitioning of the Traffic-Emitted Semi-Volatile Organic Compounds Measured in Fort McHenry Road Tunnel. CHIRANJIVI BHATTARAI, Andrey Khlystov, Desert Research Institute	4AE.5 6:15	Personal Exposure Monitoring Using Integrated Sensors and Cloud Computing. SEPEHR MAKHSOUS, Angela Chavez, Igor Novosselov, Alexander Mamishev, University of Washington
4AC.43 6:15	Secondary Organic Aerosol and Organochloride Formation from Alkanes. DONGYU S. WANG, Lea Hildebrandt Ruiz, University of Texas at Austin	4AE.6 6:15	Characterization of Air Pollutants in Delhi during 2017. HAO GUO, Shovan Sahu, Sri Kota, Hongliang Zhang, Louisiana State University
4AC.44 6:15	Gas and Particle Phase Products of the Reaction of 1-Decanol with OH Radicals in the Presence of NOx. ALLISON DAVIS, Xiaoxi Liu, Jose-Luis Jimenez, Paul Ziemann, University of Colorado-Boulder	4AE.7 6:15	Data Requirements for Mapping Long-Term Air Pollution with Mobile Short-Term Measurements. RIVKAH GARDNER-FROLICK, Joshua Apte, Kyle Messier, University of Texas at Austin
4AC.45 6:15	Secondary Organic Aerosol Formation of OH and NO3 Initiated Reactions of 1,3-Benzenediol. ZACHARY FINEWAX, Joost de Gouw, Paul Ziemann, University of Colorado	4AE.8 6:15	Impacts of E-Cigarettes Consumptions on the Air Quality of Vape Shop and Its Nearby Areas. LIQIAO (VICKY) LI, Charlene Nguyen, Yan Lin, Yifang Zhu, University of California, Los Angeles
4AC.46 6:15	Clustering Process of Glyoxylic Acid Involving Gas-phase Hydration Reaction: Implications for the Atmospheric Models. Ling Liu, Oona Kupiainen-Määttä, XIUHUI ZHANG, Beijing Institute of Technology	4AE.9 6:15	Personal Exposure to Particulate Matter While Commuting. VÂNIA MARTINS, Susana Marta Almeida, Tiago Faria, Carolina Correia, Inês Cunha-Lopes, Nuno Canha, Evangelia Diapouli, Manos Manousakas, Konstantinos Eleftheriadis, C2TN, IST, Universidade de Lisboa, Portugal
4AE	AEROSOL EXPOSURE I: POSTERS EXHIBIT HALL 5 Timothy M. Raymond, chair	4AE.11 6:15	Defining Local Conditions That Reveal High Associations between Satellite-Borne AOD and Ground PM Concentrations. MEYTAR SOREK-HAMER, Robert Chatfield, NASA Ames Research Center, Moffett Field, CA, USA
4AE.1 6:15	Reactive Oxygen Species (ROS) Activity Map Induced by PM2.5 in 10 Different Cities, China. SHEXIA MA, Yanshan Lv, Xiaoying Li, Yangyang Zhang, Xuejun Liu, Mei Zheng, South China Institute of Environmental Sciences, MEP	4AE.13 6:15	Uptake of Tobacco Related Reduced Nitrogen Species to Aqueous Aerosols. PETER DECARLO, Anita Avery, Erin Katz, Michael Waring, Drexel University
		4AE.14 6:15	Community-Level Spatial Mapping of Ultrafine Particle Number Concentration. PRADEEP S. PRATHIBHA, Ray Yeager, Aruni Bhatnagar, Jason S. Su, Jay R. Turner, Washington University in St. Louis

4AE.15 6:15	Exposure of Children to Particulate Matter and Chemical Elements in Urban Environment. Tiago Faria, MARINA ALMEIDA-SILVA, Vânia Martins, Inês Cunha-Lopes, Carolina Correia, Catarina Galinha, Célia Alves, Susana Marta Almeida, C2TN, IST, Universidade de Lisboa, Portugal
4AE.16 6:15	Characterization of Nanoparticle Containing Formulations before and after Spraying on Textile Surfaces: The Influence of Surface Active Substances on Aerosol Formation Relevant for Inhalation. FRANK BIERKANDT, Sandra Wagener, Jutta Tentschert, Harald Jungnickel, Peter Laux, Andreas Luch, Lars Hillemann, Paul Bergelt, Federal Institute for Risk Assessment (BfR)

4AM	AEROSOL MODELING II: POSTERS EXHIBIT HALL 5 Jia Jiang and William Heinson, chairs
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4AM.1 6:15	The Basics of Taylor Series Expansion Method of Moment for Brownian Coagulation. MINGLIANG XIE, Huazhong University of Science and Technology
4AM.2 6:15	Effects of Airway Surface Roughness on Local Particle Deposition in Subject-Specific Tracheobronchial Trees. YU FENG, Xiaole Chen, Jianan Zhao, Arvind Santhanakrishnan, Oklahoma State University
4AM.3 6:15	Development and Experimental Validation of Coupled Flow-Aerosol Dynamics Model for a Glowing Wire. KUNAL GHOSH, S.N. Tripathi, Manish Joshi, Y.S. Mayya, Arshad Khan, B.K. Sapra, IIT Kanpur
4AM.4 6:15	One Year Comparison of SOA Markers Modelling and Measurements: Seasonality and Gas/Particle Partitioning Evaluation. GRAZIA MARIA LANZAFAME, Deepchandra Srivastava, Florian Couvidat, Olivier Favez, Bertrand Bessagnet, Alexandre Albinet, INERIS
4AM.5 6:15	Effects of North California Wildfire in October 2017 on Air Quality and Human Health. FENGLIN HAN, Hongliang Zhang, Louisiana State University
4AM.6 6:15	Coarse, Fine and Ultrafine Particles of Sub-urban Continental Aerosols. DRAGANA ĐOR EVI , Jelena Đuri i -Milankovi , Ana Panteli , Sr an Petrovi , Andrea Gambaro, CEEC – ICTM, University of Belgrade
4AM.7 6:15	Consideration of Wildfires as a Source of Airborne Mineral Dust - a Model Approach. ROBERT WAGNER, Kerstin Schepanski, Michael Jähn, Leibniz Institute for Tropospheric Research

4AM.8 6:15	Predicting Atmospheric Gaseous and Particulate Phase PCDD/F Concentrations Using PM2.5 Data and Gas-Particle Partitioning Models of PCDD/Fs. Rong Zhao, Kangping Cui, Weiwei Wang, Lin-Chi Wang, Ping Yan, WEN-JHY LEE, National Cheng Kung University
4AM.9 6:15	Taylor-series Expansion Method of Moments for Resolving Aerosol Dynamics. MINGZHOU YU, Yueyan Liu, China Jiliang University
4AM.10 6:15	Towards a Coarse-Grained Model of Nano-Particle Agglomeration. MILENA SMILJANIC, Andreas Kronenburg, Rudolf Weeber, Christian Holm, University of Stuttgart
4AM.11 6:15	High Resolution Chemical Transport Modeling of Ultrafine Particles over Pittsburgh. SHAYAK SENGUPTA, Pablo Garcia, David Patoulias, Wei Ma, Sean Qian, Spyros Pandis, Inês Azevedo, Peter Adams, Carnegie Mellon University
4AM.12 6:15	Simulation of SOA Formation of Monoalkyl-substituted Benzenes in the Presence of SO2 under Different NOx Levels Using the UNIPAR Model. CHUFAN ZHOU, Myoseon Jang, University of Florida
4AM.13 6:15	Effect of Dispersion & Coagulation Parameters on the Survival Fraction of Aerosol Particles Released from Puffs and Plumes. Tanmay Sarkar, S. Anand, Y.S. MAYYA, BARC
4AM.15 6:15	Aerosol Impaction under High Knudsen Number, High Mach Number Conditions for Applications in Additive Manufacturing. CHENXI LI, Bernard Olson, Christopher Hogan Jr., University of Minnesota
4AM.17 6:15	Quantifying and Valuing the Role of UK Vegetation in the Removal of Particulate Matter. EIKO NEMITZ, Laurence Jones, Massimo Vieno, Daniel Morton, Carnell Ed, Stefan Reis, Ian Dickie, Philip Cryle, Holland Mike, Centre for Ecology and Hydrology
4AM.18 6:15	Prediction of the Chamber Wall Process of Gaseous Semivolatile Organic Compounds Using a Linear Solvation Energy Relationship. HUANHUAN JIANG, Myoseon Jang, Sanhee Han, University of Florida
4AM.19 6:15	3-D Numerical Study of Linear Slot Virtual Impactor. WONYOUNG JEON, Hyunwoo Lee, Youngjin Seo, Kumoh National Institute of Technology

4AM.20 6:15	Numerical Investigation on Artificial Cloud Seeding as a Means of Precipitation Enhancement. ALI AFZALIFAR, Juha Tonttila, Kudzotsa Kudzotsa, Tomi Raatikainen, Harri Kokkola, Sami Romakkaniemi, Finnish Meteorological Institute
4AM.21 6:15	A Simulation Tool to Understand the Chemistry of Hexavalent Chromium in Airborne PM at pH 5 and pH9. MEHDI AMOUEI TORKMAHALLEH, Dinara Konakbayeva, Marios Fyrrillas, Mirat Karibayev, Chemical and Aerosol Research Team, Nazarbayev University
4AM.23 6:15	Evolution of PM Components in Europe over the 1990-2010 Period in the Framework of the Eurodelta-Trends Exercise. GIANCARLO CIARELLI, Augustin Colette, Matthias Beekmann, Mark Theobald, Peter Wind, Camilla Andersson, Florian Couvidat, Astrid Manders-Groot, Mihaela Mircea, Maria Teresa Pay, Valentin Raffort, Svetlana Tsyro, Kees Cuvelier, Mario Adani, Bertrand Bessagnet, Robert Bergstrom, Gino Briganti, Andrea Cappelletti, Massimo D'isidoro, Hilde Fagerli, Yelva Rouston, Marta Vivanco, LISA
4AM.24 6:15	Comprehensive Organic Emission Profiles for Mobile Sources: Integration of VOC, IVOC, SVOC and Lower Volatility Organics. QUANYANG LU, Yunliang Zhao, Albert Presto, Andrew May, Tim Gordon, Allen Robinson, Carnegie Mellon University
4AM.25 6:15	Modeling Optical Properties of Antarctic Aerosols Constrained with SEM-EDS Analysis. VIKAS GOEL, Sumit Kumar Mishra, Ajit Ahlawat, Neelesh Lodhi, Sachidanand Singh, Beena Gupta, Rupesh M Das, R.K. Kotnala, CSIR-NPL
4AM.27 6:15	Urban Air Quality Modeling at High Spatial Resolutions. PABLO GARCIA, Peter Adams, Spyros Pandis, Carnegie Mellon University
4AM.28 6:15	Coupled Gas and Particle Phase Modeling of Isoprene SOA Formation. KELVIN BATES, Rebecca Schwantes, John Seinfeld, California Institute of Technology
4AM.29 6:15	Modeling the Effects of Central American Fire Emissions on Air Quality in Texas. QIANJIN ZHENG, Min Zhong, Texas A&M University-Kingsville
4AM.30 6:15	Climate System Responses to the Interactions between Wildfires and Climate. AOXING ZHANG, Yuhang Wang, Yufei Zou, Georgia Institute of Technology
4AM.31 6:15	Formation of Sulfate during Winter High Pollution Events in Beijing. Peng Wang, Li Wu, QI YING, Jianlin Hu, Hongliang Zhang, Texas A&M University

4AM.32 6:15	Development and Assessment of an NEI-based U.S. Emissions Inventory for 1980-2015. MARGUERITE COLASURDO MARKS, Peter Adams, Allen Robinson, Carnegie Mellon University
4AM.33 6:15	Brownian Diffusion of Nano-Fibers. LIN TIAN, Goodarz Ahmadi, Jiyuan Tu, RMIT University

4AP	AEROSOL PHYSICS II: POSTERS EXHIBIT HALL 5 George Mulholland and Yensil Park, chairs
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4AP.1 6:15	The Concentrations of Aerosol Surface Area in Fukue Island, Japan, Measured by Diffusion Charging Method. MIHO KIRIYA, Tomoaki Okuda, Ayako Yoshino, Akinori Takami, Indra Chandra, Takafumi Seto, Koji Funato, Kozo Inoue, Keio University
4AP.2 6:15	Measurement of the Electrostatic Charging State of Ambient Aerosol Using a Parallel Electrode Plate Device. KENTARO FUJIOKA, Keiichi Kurosowa, Takuto Yonemichi, Koji Fukagata, Tomoaki Okuda, Keio University
4AP.4 6:15	Dynamics of Molecular Ions under the Electrical Field. TOMOYA TAMADATE, Takaaki Orii, Hidenori Higashi, Mikio Kumita, Yoshio Otani, Takafumi Seto, Kanazawa University
4AP.5 6:15	Effects of Dehydration Conditions on Particle Morphology and Activation Ratio of Inorganic Nanoparticles by a HT-DMA-APM / CCNC System. TA-CHIH HSIAO, Po-Hsiang Huang, National Central University
4AP.6 6:15	Impact of Turbulence Parameters Influences on New Particle Formation Events in August Beijing. HAO WU, Fang Zhang, Zhanqing Li, Peng Yan, Yuying Wang, Xiaoi Jin, Xinxin Fan, Beijing Normal University
4AP.7 6:15	Mathematical Modeling of Aerosol Formation from Binary Vapor Mixtures. Ali Rostami, Sergey Fisenko, SERGEY N. MAXIMOFF, David Kane, Yezdi Pithawalla, Mohamed EI-Shall, Altria Client Services LLC
4AP.8 6:15	Estimation of Atmospheric Columnar Organic Matter (OM) Mass Concentration from Remote Sensing Measurements. YING ZHANG, Zhengqiang Li, Yang Lv, Yisong Xie, Institute of Remote Sensing and Digital Earth, CAS

4AP.9 6:15	Approximation to the Diffraction Limit of Three Dimensional Shapes Using the Scaling Approach. JUSTIN MAUGHAN, Christopher Sorensen, Kansas State University
4AP.10 6:15	Organic Aerosol Evolution from Wood Combustion Chamber during the Dilution Process. QIJING BIAN, Ezra Levin, Taehyoung Lee, Jeffrey R. Pierce, Sonia Kreidenweis, Colorado State University
4AP.11 6:15	Time-dependent Robin Boundary Condition for Convective Diffusion Equations. Panagiotis Neofytou, Marika Pilou, Christos Housiadas, YANNIS DROSSINOS, European Commission, Joint Research Centre
4AP.12 6:15	Comparison of the Particle Growth Rates at Three Background Stations in the Czech Republic. Adéla Holubová Šmejkalová, HELENA PLACHÁ, Bitter Miroslav, Nadežda Zíková, Vladimír Ždímal, Charles University
4AP.13 6:15	Numerical Study of Nano-Aerosol Generation through Rayleigh Fission of a Charged Viscous Liquid Drop. NEHA GAWANDE, Mohit Singh, Y.S. Mayya, R.M. Thakkar, Indian Institute of Technology Bombay
4AP.14 6:15	Diffraction, Shadows and Scattering in Electrostatics: A New View. Matthew Berg, CHRISTOPHER SORENSEN, Kansas State University
4AP.15 6:15	Physical and Optical Properties of Aerosols over Indo-Gangetic Basin. ASHOK JANGID, Suresh Tiwari, Ranjit Kumar, DEI, Dayalbagh, Agra
4AP.17 6:15	Characteristics and Relative Humidity Dependence of the Condensational Growth of Secondary Organic Aerosol Particles in a Continuously Mixed Flow Reactor. YUEMEI HAN, Jinghao Zhai, Chloé Vercruyssen, Yiming Qin, Jianhui Ye, Scot T. Martin, Harvard University
4AP.18 6:15	Influence of Design Parameters and Operating Conditions on the Aerosol Produced by a Laskin Nozzle. BENOIT SAGOT, Louise Chazalon, Lyes Ait Ali Yahia, ESTACA
4AP.19 6:15	Light Scattering Analysis of Irregularly Shaped Dust Particles: A Study Using 3-Dimensional Reconstructions from Focused Ion-Beam (FIB) Tomography and Q-Space Analysis. DIANA ORTIZ-MONTALVO, Joseph Conny, National Institute of Standards and Technology

4AP.20 6:15	Physical Characterization of Tire Wear Particles Generated by Tire Simulator According to the Tread Wear Rate of Tires. SEOKHWAN LEE, Gibaek Kim, Korea Institute of Machinery and Materials
4AP.21 6:15	Aerosol Self-Cleansing by Dry Deposition in the Amazon Dry Season. FLORIAN DITAS, Christopher Pöhlker, Henrique Barbosa, Joel Brito, Samara Carbone, Xuguang Chi, Bruna A. Holanda, Isabella Hrabec de Angelis, Tobias Könemann, Jing Ming, Mira L. Pöhlker, Maria Prass, Daniel Moran-Zuloaga, Marta Sá, Jorge Saturno, Hang Su, Jian Wang, David Walter, Stefan Wolff, Alessandro Araujo, Paulo Artaxo, Ulrich Pöschl, Meinrat O. Andreae, Max Planck Institute for Chemistry
4AP.22 6:15	Aerosol Optical Property Measurements of European Background Aerosol under Clean and Polluted Conditions. SEBASTIAN DÜSING, Birgit Wehner, Albert Ansmann, Holger Baars, Ralf Käßner, Nan Ma, Thomas Müller, Patric Seifert, Holger Siebert, Gerald Spindler, Alfred Wiedensohler, Nicolas Bukowiecki, Joel Corbin, Martin Gysel, Leibniz-Institute for Tropospheric Research
4AP.24 6:15	Charge Size Distribution of Aerosol Nanoparticles Generated by Electrical Heating: Measurements and Theory. MARIAM , Manish Joshi, Arshad Khan, B.K. Sapra, Bhabha Atomic Research Centre, Mumbai
4AP.25 6:15	Optical Properties and Chemical Constituents of Ambient Fine Particles in an Urban Environment of Korea. JONGBAE HEO, Seungpyo Cheong, Hwajin Kim, Seoul National University
4AP.26 6:15	Coagulation of Polydisperse Primary Particles from Free Molecular to Transition Regime. Georgios Kelesidis, EIRINI GOUDELI, ETH Zürich
4AP.27 6:15	Single Scattering Albedo of Homogeneous, Spherical Particles in the Transition Region. HANS MOOSMULLER, Christopher Sorensen, Desert Research Institute
4AP.28 6:15	Fine Particle Formation in Corona Discharge. VALERY ZAGAYNOV, National Research Nuclear University MEPhI
4AP.29 6:15	Temporal Variation of Particles Suspended (TSP, PM10 and PM2.5) and Composition Chemistry of PM10 in San Francisco de Campeche, México. ALBERTO ANTONIO ESPINOSA GUZMÁN, Javier Reyes Trujeque, Javier Miranda, Juan Carlos Pineda SantaMaría, Ana Luisa Alarcón Jiménez, María del Carmen Torres Barrera, Rodolfo Sosa Echeverría, Autonomus University of Campeche

4CA	CARBONACEOUS AEROSOL II: POSTERS EXHIBIT HALL 5 Melissa Galloway and Elijah Schnitzler, chairs
4CA.1 6:15	Sources of PM_{2.5} Carbonaceous Aerosol in Riyadh, Saudi Arabia. QIJING BIAN, Badr Alharbi, Mohammed M. Shareef, Tahir Husain, Mohammad J. Pasha, Samuel Atwood, Sonia Kreidenweis, Colorado State University
4CA.2 6:15	Hydroxyl and Nitrate Radical Aging of Organic Emissions from Wildfires. SHANTANU JATHAR, Ali Akherati, Shiva Tarun, Liam Lewane, Abril Galang, Timothy Onasch, Scott Herndon, Joseph Roscioli, Tara Yacovitch, Edward Fortner, Philip Croteau, Wen Xu, Conner Daube, Berk Knighton, Benjamin Werden, Ezra Wood, Christopher Lim, David Hagan, Christopher Cappa, Jesse Kroll, Daniel S. Tkacik, Christopher Hennigan, Allen Robinson, Colorado State University
4CA.3 6:15	Trend of Elemental and Organic Carbon (EC/OC) Concentrations at the National Atmospheric Observatory Košetice (Czech Republic) in 2009-2016. MILAN VANA, Adéla Holubová Šmejkalová, Czech Hydrometeorological Institute
4CA.4 6:15	Roadside Measurements of Black Carbon, PM_{2.5}, Particle Number and NO_x Vehicle Emission Factors in Brazil. PATRICIA KRECL, Admir Créso Targino, Thiago Landi, Matthias Ketzler, Federal University of Technology
4CA.5 6:15	Sources of Brown Carbon in Urban Environments: Importance of Vehicular Emissions. NETHMI KASTHURIARACHCHI, Max Adam, Yue Liang, Dong Zhang, Alex Lee, National University of Singapore
4CA.6 6:15	Over a Decade-long Trend of Concentrations of Ultrafine Particle and Carbonaceous Aerosols at a Traffic Intersection. YUJI FUJITANI, Katsuyuki Takahashi, Akihiro Fushimi, Shuichi Hasegawa, Yoshinori Kondo, Kiyoshi Tanabe, Shinji Kobayashi, National Institute for Environmental Studies
4CA.7 6:15	Chemical-Optical Characteristics, Risk Assessment and Sources of PM₁ during Foggy and Non-foggy Episodes in Northern India. PRASHANT RAJPUT, Pradhi Rajeev, Vikram Choudhary, Gyanesh Kumar Singh, Amit Kumar Singh, Tarun Gupta, IIT Kanpur

4CA.8 6:15	Influence of Aerosol Sources on Atmospheric Black Carbon Absorption Enhancement in the Region of Paris, France. YUNJIANG ZHANG, Olivier Favez, Francesco Canonaco, Dantong Liu, Jean-Eudes Petit, Tanguy Amodeo, Nicolas Bonnaire, Francois Truong, Jean Sciare, Andre S.H. Prévôt, Valerie Gros, Alexandre Albinet, INERIS
4CA.9 6:15	Gaseous and Speciated Particulate Emissions from the Open Burning of Wastes from Tree Pruning. CÉLIA ALVES, Ana Vicente, Estela Vicente, Margarita Evtugina, María Fernández-Amado, Purificación López-Mahía, University of Aveiro
4CA.10 6:15	Sources and Physicochemical Characteristics of Black Carbon Aerosol in the Southeastern Tibetan Plateau: Internal Mixing Enhances Light Absorption. QIYUAN WANG, Junji Cao, Yongming Han, Institute of Earth Environment, Chinese Academy of Sciences
4CA.11 6:15	Characteristics of Pollutant Emissions from Typical Coastal and Riverine Ships in China. XIANG DING, Qing Li, Di Wu, Jianfeng Sun, Xianmang Xu, JianMin Chen, Fudan University
4CA.12 6:15	Comprehensive Assessment of Carbonaceous PM_{2.5} in Malaysia during Haze Events Influenced by Indonesia Peatland Fire and Non-Haze Period. KURITA HIROKI, Fujii Yusuke, Tohno Susumu, Saito Nozomi, Kamiya Yuta, Takayuki Kameda, Regina Hitzemberger, Haller Theresa, Ikeda Kazuhiro, Sakai Nobumitsu, Sulong Nor Azura, Mohd Talib Latif, Ohura Takeshi, Kyoto University
4CA.13 6:15	Contrasting Temporal and Spatial Variation of Atmospheric Carbonaceous Aerosols during a Year-Long Measurement in Central India. SHAMSH PERVEZ, Rakesh Sahu, Suresh Tiwari, A.S. Panicker, Rajan K. Chakrabarty, Judith Chow, John Watson, Yasmeen F. Pervez, Pandit Ravishankar Shukla University, Chhattisgarh, India
4CA.14 6:15	Characterizing Black Carbon and Aerosol Optical Properties in Biomass Burning Plumes: A Comparison of Aged Wildfire Plumes and Prescribed Burn Plumes at the Mt. Bachelor Observatory. JAMES LAING, Daniel Jaffe, Arthur J. Sedlacek, Christopher Cappa, University of Washington, Bothell, WA, USA
4CA.15 6:15	Evaluating the Choice of Primary OC/EC to Estimate Secondary OC. KRISHNA KEDIA, Shilpi Samiksha, Ramya Sunder Raman, Indian Institute of Science Education and Research, Bhopal

4CA.16 6:15	Metrology for Light Absorption by Atmospheric Aerosols: The EMPIR Black Carbon Project. Eija Asmi, Joel Corbin, Volker Ebert, Konstantinos Eleftheriadis, François Gaie-Levrel, Martin Gysel, Thomas Müller, Andreas Nowak, Konstantina Vasilatou, Ernest Weingartner, PAUL QUINCEY, NPL
4CA.17 6:15	Usefulness of Stable Carbon Isotope and Other Chemical Tracers to Distinguish between Primary and Secondary Carbonaceous Sources of PM2.5 Particles over a National Park in Central India. SHILPI SAMIKSHA, Ramya Sunder Raman, Indian Institute of Science Education and Research, Bhopal
4CA.18 6:15	Source Apportionment of Fossil Fuel and Biomass Burning Black Carbon (Bc) in the Milan Metropolitan City and Bareggio Sub-Urban Area Contrasting Locations. AMIRHOSEIN MOUSAVI, Mohammad Sowlat, Ario Ruprecht, Constantinos Sioutas, University of Southern California
4CA.19 6:15	Wintertime PM2.5 in the Kathmandu Valley and Terai Region of Nepal. MD. ROBIUL ISLAM, Nita Khanal, Khadak Mahata, Siva Praveen Puppala, Narayan Babu Dhital, Michael Giordano, Benjamin Werden, Anobha Gurung, Arnico Panday, Peter DeCarlo, Elizabeth Stone, University of Iowa
4CA.20 6:15	Measurement of Speciated Gaseous and Particulate Organic Nitrates in Urban Atlanta using FIGAERO-HR-ToF-I-CIMS. MASAYUKI TAKEUCHI, Gamze Eris, Taekyu Joo, Yunle Chen, Weiqi Xu, Dao Huang, Gabriela Saavedra, Seongshik Kim, Dong Gao, Rodney J. Weber, Yele Sun, Michael Walker, Brent Williams, Jenna Ditto, Drew Gentner, David Tanner, Greg Huey, Nga Lee Ng, Georgia Institute of Technology
4CA.21 6:15	Measurements of Dry and Wet Black Carbon Deposition over a Grassland. GAVIN MCMEEKING, Ethan Emerson, Joseph Katich, Joshua P. Schwarz, Delphine Farmer, Handix Scientific
4CA.22 6:15	Investigation of Black Carbon Emission Using Multi-wavelength Aethalometer and Analysis of EC/OC in a Central Inland City of India. NAVNEET KUMAR, Anirban Middey, Padma Rao, CSIR-NEERI
4CA.23 6:15	Characteristics of Black Carbon Aerosol over Patiala Northwest Region of IGP: Source Apportionment using Cluster and CWT Analysis. ONAM BANSAL, Darshan Singh, Department of Physics, Punjabi University Patiala, India

4CA.24 6:15	Equivalent Black Carbon (EBC) Measurement at a Regional Background Site in Central Europe Using a Multiple Wavelength Aethalometer: Variability and Source Apportionment. SALIOU MBENGUE, Norbert Serfozo, Jaroslav Schwarz, Nadežda Zíková, Adéla Holubová Šmejkalová, Ivan Holoubek, Global Change Research Institute, CAS, Brno 60300, CZ
4CA.25 6:15	Estimating Aerosol Light Absorption from Filter-based Spectrophotometer Measurements. APOORVA PANDEY, Nishit Shetty, Rajan K. Chakrabarty, Washington University in St Louis
4CA.26 6:15	Brown Carbon Aerosol Observed in the Remote Atmosphere. LINGHAN ZENG, Rodney J. Weber, Aoxing Zhang, Yuhang Wang, Eric Scheuer, Jack Dibb, Jose-Luis Jimenez, Pedro Campuzano-Jost, Joshua P. Schwarz, Kathryn McKain, Eric Apel, Georgia Institute of Technology
4CA.27 6:15	Fourier-transform Infrared Determination of Organic and Elemental Carbon: Anomalous Samples and What They Tell Us about Composition and Sources. ANN DILLNER, Andrew Weakley, Bruno Debus, Satoshi Takahama, University of California, Davis
4CA.28 6:15	Particulate and Gas Phase Separation in Simultaneous Sampling of Combustion Byproducts: New Insights into Chemical Composition by Mass Spectrometric Analysis. Jennifer Noble, Linhdan Ngo, Dumitru Duca, MARIN VOJKOVIC, Abd Raouf Ikhenazene, Cornelia Irimiea, Guillaume Lefevre, Alessandro Faccineto, Claire Pirim, Yvain Carpentier, Bertrand Chazallon, Nicholas Nuns, Jerome Yon, Eric Therssen, Cristian Focsa, Université de Lille
4CA.29 6:15	Apportionment of Black Carbon to Fossil Fuel and Biomass Burning Sources in the Lower Fraser Valley, British Columbia: Impact of 2017 Wildfires on Local Air Quality. Robert Healy, Geoff Doerksen, UWAYEMI SOFOWOTE, Yushan Su, Jerzy Debosz, Michael Noble, Cheol H. Jeong, Jon M. Wang, Nathan Hilker, Greg J. Evans, Anthony Munoz, Ontario Ministry of the Environment and Climate Change
4CA.30 6:15	Source Apportionment and Variability of Submicron Organic Aerosol from Year-long Near Real-time Measurements Over an Urban Mediterranean Area. Aikaterini Bougiatioti, IASONAS STAVROULAS, Despina Paraskevopoulou, Georgios Grivas, Pavlos Zampas, Eleni Liakakou, Evangelos Gerasopoulos, Nikolaos Mihalopoulos, National Observatory of Athens

4CA.31 6:15	Impact of Organic Aerosol Partitioning on U.S. Particle Emission Factors. BENJAMIN MURPHY, Christos Efstathiou, Havalala Pye, United States Environmental Protection Agency
4CA.32 6:15	Long-Term Assessment of Sunset OC/EC with Chemical Speciation Network Measurements. STEVEN G. BROWN, Elizabeth Landis, Hilary Minor, Theresa O'Brien, Joann Rice, Sonoma Technology, Inc
4CA.33 6:15	Off-line Analysis of Cloud Water Samples compared to On-line Measurements of Below-Cloud Aerosol Composition: Inferring Cloud Processing Impacts on Organic Aerosol. SARA LANCE, Jie Zhang, Amy Christiansen, Annmarie Carlton, Paul Casson, James Schwab, ASRC, University at Albany, SUNY
4CA.34 6:15	Effects of Sugarcane Pre-Harvest Burning on Aerosol Optical Properties in the Cauca Valley, Colombia. ANGELA VARGAS, Jennifer Marin, Lady Mateus, Nestor Rojas, Rodrigo Jimenez, German Ruega, Universidad Nacional de Colombia
4CA.35 6:15	Measuring the Physical Properties of Refractory Black Carbon off the Los Angeles Coast. JOSEPH KO, Trevor Krasowsky, George Ban-Weiss, University of Southern California
4CA.36 6:15	Evaluating Inter-seasonal Urban Environment-mixed Black Carbon-induced Radiative Effects over Eastern India. SHUBHA VERMA, Shantanu Pani, Sanhita Ghosh, Sauvik Santra, Indian Institute of Technology Kharagpur

4CM	CONTROL AND MITIGATION IV: POSTERS EXHIBIT HALL 5 Bing Guo and Caner Yurteri, chairs
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4CM.1 6:15	Evaluation of Novel Textiles for Use in Dual Removal Mask Technology. AARON LAMPLUGH, Lupita Montoya, University of Colorado Boulder
4CM.2 6:15	Engineering Controls to Reduce Exposure to Respirable Crystalline Silica during Stone Countertop Grinding. CHAOLONG QI, Alan Echt, NIOSH
4CM.3 6:15	Microwave-Assisted Catalytic Total Oxidation of Methyl Ethyl Ketone over Co₃O₄ Catalyst. QUI NGUYEN VAN, Ha Than Quoc An, Thanh Nguyen Dinh, Institute of Applied Materials Science - VAST

4CM.4 6:15	Effect of RH Change on Pressure Drop of Loaded Cellulose Filter Media with Hygroscopic Deposits. CHENXING PEI, Qisheng Ou, David Y. H. Pui, University of Minnesota
4CM.5 6:15	Enhancing the Efficiency of Flat-plate Electrostatic Precipitator by a Diffusion Charge Method. Chih-Te Wang, Chang-Chin Chou, Yu-Chau Wang, Shui-Jen Chen, Ken-Hui Chang, WEN-YINN LIN, Institute of Environmental Engineering and Management, NTUT
4CM.6 6:15	Charge and Filtration Characteristics of Novel Porous Fibers. Chih-Te Wang, Shao-Tai Lee, Jia-Hong Wang, Shi Jia-Xi, Chih-Chieh Chen, WEN-YINN LIN, Institute of Environmental Engineering and Management, NTUT
4CM.7 6:15	A Novel Technique for Testing Filter Media Using Monodisperse Aerosol as a Function of Aerodynamic Diameter. Simon Payne, Martin Irwin, Tyler J. Johnson, JONATHAN SYMONDS, Cambustion
4CM.8 6:15	Comparison of Charge Fraction and Electrostatic Precipitation of Fly Ash from Combustion of India, US and China Coal Seams. ZHICHAO LI, Pratim Biswas, Washington University in St Louis
4CM.9 6:15	Improving the Accuracy of PM_{2.5} Sampling with Chilled Teflon Filter. Krishna Kumar Shukla, Sneha Gautum, Te-Hsien Hsieh, Ziyi Li, Pei-Yun Shih, THI-CUC LE, Chuen-Jinn Tsai, National Chiao Tung University, Taiwan
4CM.10 6:15	Improvement of Monitoring of Radioactive Aerosols of Ground-Level Air near Chernobyl NPP. ALEXANDR KALYNOVSKIY, Victor Krasnov, Boris Ogorodnikov, Institute NSP NPP, Ukraine
4CM.11 6:15	Reductions of PAH and Nitro-PAH Emissions from Diesel Engine by Using Micro-Emulsified Diesel-based Hydrous Glycerol Fuels. SHENG-LUN LIN, Yen-Yi Lee, Fang-Ching Lee, Wen-Jhy Lee, Cheng Shiu University, Taiwan
4CM.12 6:15	Preparation of Non-Woven PTFE Fibers Using Electrospinning. HAN-BIN KIM, Ki Bong Lee, Myong-Hwa Lee, Korea Institute of Industrial Technology, Korea University
4CM.13 6:15	Investigation of Charge Decay Degree in Electret Filters with Various Surface Charge Densities. WOO JIN LEE, Junggho Hwang, Myong-Hwa Lee, Korea Institute of Industrial Technology, Yonsei University

4CM.14 6:15	Regeneration Characteristics of Filter Bag Cartridges with Various Pleating Geometries. JIN SIK KIM, Myong-Hwa Lee, Korea Institute of Industrial Technology
4CM.15 6:15	Conversion of Sulfur Dioxide and Nitrogen Oxides to Particulate Matter. MYONG-HWA LEE, Woo Jin Lee, Han-Bin Kim, Jin Sik Kim, Korea Institute of Industrial Technology
4CM.16 6:15	Filtration Performance of Electret Filter Composed of Nano/Micron Fibers. TOSHIKI MURAKAMI, Takafumi Seto, Yoshio Otani, Kanazawa University
4CM.17 6:15	Fine Particle Emission from Power Plants and Their Contribution to Air Quality in Korea. SUNGNAM CHUN, Suji Kang, Gayoung Lee, Korea Electric Power Corporation Research Institute, Korea

4DU	COMBUSTION-GENERATED AEROSOLS: THE DESIRABLE AND UNDESIRABLE II: POSTERS EXHIBIT HALL 5
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4DU.3 6:15	A Study on Pulverized Coal Combustion Using a Two-Stage Flat-Flame Burner with a Transition from a Reducing to Oxidizing Environment. Adewale Adeosun, DISHANT KHATRI, Zhiwei Yang, Richard Axelbaum, Washington University in St. Louis
4DU.4 6:15	Nanostructure as a Paradigm for Describing Carbon Structure and Interpreting Its Formation. RANDY VANDER WAL, Madhu Singh, Joseph Abrahamson, Chethan Gaddam, Kuen Yehliu, Chung-Hsuan Huang, Penn State University
4DU.5 6:15	Towards Establishing a Semi-Empirical Soot Formation Model for Strained, Non-Premixed, Oxygen-Enriched Flames. PHILLIP R. JOHNSON, Rajan K. Chakrabarty, Benjamin M. Kumfer, Washington University in St. Louis
4DU.7 6:15	Submicron Ash Formation in Advanced Pressurized Combustion System. DISHANT KHATRI, Zhiwei Wang, Akshay Gopan, Adewale Adeosun, Richard Axelbaum, Washington University in St. Louis
4DU.8 6:15	Employing Laser Pyrolysis to Generate Carbon Onion Particles and Its Application to Proton Exchange Membrane Fuel Cell. JE HYEON YEON, Indae Choi, Sei Jin Park, Mansoo Choi, Seoul National University, Seoul, Korea

4ED	AEROSOL EDUCATION II: POSTERS EXHIBIT HALL 5 Timothy Raymond and Antti Lauri, chairs
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4ED.1 6:15	Incorporating Engineering Context into General Chemistry Laboratory for a more Contextually Relevant and Engaging Experience for Engineering Students. CHANG YU WU, Kent Crippen, Lorelie Imperial, Corey Payne, Korolev Maria, Philip Brucacat, University of Florida
4ED.2 6:15	NGDE: A Simple, MATLAB-based Code for Solving the General Dynamic Equation. JAMES CORSON, George Mulholland, Michael Zachariah, University of Maryland
4ED.3 6:15	Aerosol Education with Community Citizens in Brandywine. AKUA ASA-AWUKU, University of Maryland
4ED.4 6:15	Image Analysis on Particle Size Distribution and Particle Tracking by Python-programming. CHIH-HSIANG CHIEN, Huanhuan Jiang, Wyndham Hudson, Bing Guo, Chang Yu Wu, Myoseon Jang, Paul Gader, University of Florida
4ED.5 6:15	Fundamentals of Air Pollution Engineering: A Free Online Resource for Aerosol Education. RICHARD FLAGAN, John Seinfeld, California Institute of Technology
4ED.6 6:15	Combining Transferable Skills and Aerosol Science in Education. ANTTI LAURI, Taina Ruuskanen, Laura Riuttanen, Hanna Vehkamäki, University of Helsinki
4ED.7 6:15	Low-cost Particulate Matter Sensors: Developing, Piloting and Disseminating Appropriate Educational Resources to Support Community Use. Stefania Squizzato, Katrina Smith Korfmacher, Cait Fallone, Kathleen Gray, Dana Haine, John Prochaska, Diana Hernandez, Peggy Shephard, PHILIP K. HOPKE, University of Rochester Medical Center
4ED.8 6:15	A Software to Map the Time-lapse History of Global Air Pollutions (TH-GAPs). MAOHUA PAN, Zechen Yu, Chang Yu Wu, Myoseon Jang, Paul Gader, University of Florida

4IA	INDOOR AEROSOLS IV: POSTERS EXHIBIT HALL 5 Li Liu, chair
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4IA.1 6:15	Quantification of the Impact of Cooking Processes on Indoor and Outdoor, Primary and Secondary Organic Aerosols and Volatile Organic Species. IMAD EL HADDAD, Felix Klein, Andre S.H. Prévôt, Urs Baltensperger, Paul Scherrer Institute
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4IA.2 6:15	Three-Stage Modelling of Indoor Aerosol Formation Caused by Reaction of Ozone with Volatile Organic Compounds Emitted from Air Fresheners. Thai Phuong Vu, SEUNG-BOK LEE, Gwi-Nam Bae, HoChiMinh University of Natural Resources and Environment	4IA.13 6:15	Comparison of Physicochemical Properties and Toxicity of Particles Found Indoors and Outdoors in Occupied Residences – Measurement Methodology. ANETA WIERZBICKA, Yuliya Omelekhina, Nicklas R. Jacobsen, Anne Thoustrup Saber, Erica Bloom, Patrik Nilsson, Axel C. Eriksson, Joakim Pagels, Lund University
4IA.3 6:15	Impact of Household Daily Activities on Indoor Air Quality. Estela Vicente, Fernanda Oduber, Carlos Blanco-Alegre, Ana Isabel Calvo, Amaya Castro, Roberto Fraile, Teresa Nunes, CÉLIA ALVES, University of Aveiro	4IA.14 6:15	Persistence of Wildfire-derived Pollutants in Indoor Environments. LUKAS KOHL, Meng Meng, Joan de Vera, Bridget Bergquist, Colin A. Cooke, Sarah Hustins, Brian Jackson, Arthur W. H. Chan, University of Toronto
4IA.4 6:15	Reduction of Fine Particle Exposure for Bedrooms in Home According to Operating Conditions of an Air Purifier. JUNHO JI, Gwang-Jae Lee, EcoPictures Co., Ltd.	4IA.15 6:15	In-field Emission Measurements of Forced-draft Pellet and Traditional Wood and Charcoal Stoves in Rwanda. WYATT CHAMPION, Andrew Grieshop, North Carolina State University
4IA.5 6:15	Carbonaceous Particles and Gaseous Compounds in Kitchens and Outdoor Air of Different Homes. CÉLIA ALVES, Ana Rita Oliveira, Teresa Nunes, Estela Vicente, Susana Marta Almeida, Mário Cerqueira, University of Aveiro	4IA.16 6:15	Exposure Assessment by Measuring Microbial DNA in House Dust using digital Polymerase Chain Reaction (dPCR). ASHLEIGH BOPE, Samuel Cochran, David Kormos, Karen C. Dannemiller, Ohio State University
4IA.6 6:15	Aerosol Reduction Capability of an Air Purifier in the Real Living Room Environment. CHANG GYU WOO, Hak-Joon Kim, Yong-Jin Kim, Bangwoo Han, Korea Institute of Machinery and Materials	4IA.17 6:15	Observed Levels of Particle and Gas Phase Pollutant inside School Classrooms with Varying Air-Conditioning Systems. SUPREME JAIN, Divyam Garg, Anubha Goel, Indian Institute of Technology Kanpur
4IA.7 6:15	Linking PM2.5 Indoor Air Quality and Emission Factors Measured during a Cookstove Intervention Trial in Rural India. MOHAMMAD MAKSIMUL ISLAM, Roshan Wathore, Grishma Jain, Karthik Sethuraman, Hisham Zerriffi, Julian Marshall, Rob Bailis, Andrew Grieshop, North Carolina State University	4IA.18 6:15	Size-Resolved Indoor Particle Concentrations and Infiltration Factors in Single-Family Homes with Asthmatic Residents in Chicago, IL. PARHAM AZIMI, Brent Stephens, Illinois Institute of Technology
4IA.8 6:15	Investigating Aerosol Emissions from Cooking Oils through a Controlled Chamber Experiment. Itza Beltran, Sankhyan Sumit, Sameer Patel, MARINA VANCE, University of Colorado Boulder	4IM INSTRUMENTATION II: POSTERS EXHIBIT HALL 5 Ryan Sullivan and Allison Aiken, chairs	
4IA.9 6:15	Particle Size Distribution of Indoor Aerosols, Natural and Artificial. HYAM KHALAF, Mostafa Mostafa, Mikhail Zhukovsky, Ural Federal University	4IM.2 6:15	Application of Particle and Aerosol Technology to CMP (Chemical Mechanical Planarization) Process Optimization. TAESUNG KIM, Chulmin Shin, Seokjun Hong, Sungkyunkwan University
4IA.11 6:15	Aerosol Release during Mechanical Solicitation of Tio2 Nano-Additived Paint. CHARLES MOTZKUS, François Gaie-Levrel, Nicolas Feltin, Stephane Delaby, Scientific and Technical Center for Building (CSTB)	4IM.3 6:15	Effect of O2/N2 Ratio on the Generation of Self-Charged Positive and Negative Sub 5 nm with a Glowing Wire. MICHEL ATTOUI, LISA, Université Paris Est Créteil France
4IA.12 6:15	The Impacts of Cooking on Indoor Air Quality in Passive Houses. Ryan Militello-Hourigan, SHELLY MILLER, University of Colorado Boulder	4IM.4 6:15	Wide Size Range Number Concentration Calibration with Low Uncertainties. ANSSI JÄRVINEN, Jorma Keskinen, Jaakko Yli-Ojanperä, Tampere University of Technology

4IM.5 6:15	Dry Dispersion of Cohesive Powders for Continuous Aerosol Generation in the Sub-micron Size Range. Lekhnath Pokharel, Prashant Parajuli, Li Li, Ewe Jiun Chng, RANGANATHAN GOPALAKRISHNAN, The University of Memphis
4IM.6 6:15	A Post-Correction Method to Improve the Accuracy of the Aerosol Particle Mass Analyzer. BO-XI LIAO, Chuen-Jinn Tsai, National Chiao Tung University
4IM.8 6:15	A Numerical Model To Predict The Performance Of High Flow DMAs To Classify Sub-nm Aerosols. HUANG ZHANG, Girish Sharma, Yang Wang, Shuiqing Li, Pratim Biswas, Washington University in St Louis
4IM.9 6:15	Calibration of Centrifugal Particle Mass Analyzers (CPMAs) Using a DMA-Tandem-CPMA Technique. ZHEN LI, Jingkun Jiang, Da-Ren Chen, Virginia Commonwealth University
4IM.10 6:15	Characterization and Performance of the Caltech-ADI Portable Scanning Electrical Mobility Spectrometer. STAVROS AMANATIDIS, Huajun Mai, Changhyuk Kim, Richard Flagan, Steven Spielman, Gregory Lewis, Susanne Hering, California Institute of Technology
4IM.11 6:15	Mobile Chasing Measurement of Black Carbon and Nitrogen Oxides Emissions from Heavy-duty Vehicles in China. SHAOJUN ZHANG, Hui Wang, Ye Wu, K. Max Zhang, Cornell University
4IM.12 6:15	A PPWD-SDEP-IC System for Hourly Measurements of Ambient PM2.5 Inorganic Ions and Precursor Gases. CHI-YU TIEN, Chao-Ting Hsu, Ssu-Yin Lai, Yung-Chen Chiang, Chuen-Jinn Tsai, National Chiao Tung University
4IM.13 6:15	Ultrahigh Resolution Orbitrap Elite Mass Spectrometry Reveals Unprecedented Molecular Detail in Atmospheric Aerosol. LYNN MAZZOLENI, Simeon Schum, Matthew Brege, Tyler Leverton, Elizabeth Rose, Maryam Khaksari, Michigan Technological University
4IM.14 6:15	Particle Measurement Under High Pressure Conditions on a Combustor Test Rig. Frank G. Bachman, TRISTAN REINISCH, Bill Silvis, Richard W. Frazee, Alexander Bergmann, GE Aviation
4IM.15 6:15	Evaluation and Sampling Efficiency of the Wet Dust Sampler (WDS) - a Water-based Method for Road Dust Sampling. JOACIM LUNDBERG, Göran Blomqvist, Mats Gustafsson, Sara Janhäll, Ida Järtskog, VTI

4IM.16 6:15	Investigating Effects of Ambient Gas on the Ionization of Compounds by Secondary Electrospray Ionization Using Ultrahigh Resolution Mass Spectrometry. JIAFA ZENG, Kai Wu, Rui Du, Yuling Zhang, Dandan Huang, Zhen Zhou, Xue Li, Jinan University
4IM.17 6:15	Charge Distribution Characterization of an Indirect Ionization Soft X-ray Operated under Various Test Gas Environments. SIQIN HE, Derek Oberreit, Kanomax FMT, Inc.
4IM.18 6:15	Local Scale Air Pollution in a Low-Income Neighborhood in Cincinnati, OH. SIVARAMAN BALACHANDRAN, Jonathan Corey, Dexter Adams, Yajna Jathan, Madhumita Roy, Qianhui Xia, University of Cincinnati
4IM.19 6:15	Performance Study of the HR-ELPI+ Instrument. Sampo Saari, ANSSI ARFFMAN, Juha Harra, Topi Rönkkö, Jorma Keskinen, Tampere University of Technology
4IM.20 6:15	A Shaker Fluidized-bed Atomizer (SFA) for Nanopowder Dispersion with Stable Aerosol Concentrations. CHI-YU TIEN, Wen-Cheng Gong, Chuen-Jinn Tsai, National Chiao Tung University
4IM.21 6:15	Calibration of Condensation Particle Counters Against an Aerosol Electrometer Over a Wide Range of Sizes with Minimal Charge State Uncertainty. JONATHAN SYMONDS, Cambustion
4IM.22 6:15	Study of HR-ELPI+ Data Inversion with Porous Collection Substrates. ANSSI ARFFMAN, Ari Ukkonen, Anssi Järvinen, Sampo Saari, Esa Luntta, Ville Niemelä, Dekati Ltd., Kangasala, Finland
4IM.23 6:15	Comparison of the TSI 1-nm and Standard Scanning Mobility Particle Sizers during the Lake Michigan Ozone Study. MEGAN CHRISTIANSEN, Charles Stanier, Sherrie Elzey, Nathan Janechek, Nathan Bryngelson, Maynard Havlicek, Andrea Tiwari, University of Iowa
4IM.24 6:15	Effect of Eccentricity on the Performance of a Cylindrical Differential Mobility Classifier. THAMIR ALSHARIFI, Da-Ren Chen, Virginia Commonwealth University
4IM.25 6:15	Effect of Change in Sheath Air Humidity on Size Distribution Measurements by Scanning Mobility Particle Sizer. B.K. SAPRA, Mariam, Manish Joshi, Arshad Khan, Bhabha Atomic Research Centre, Mumbai
4IM.26 6:15	SEMS Transfer Functions under Fast Sequential Scanning. MARK KANAPARTHI, Suresh Dhaniyala, Clarkson University

4IM.27 6:15	Performance of Fundamental Functional Feature on DMA (2). CHIRYO TSUNODA, FES
4IM.28 6:15	Performance of Fundamental Functional Feature on DMA (1). CHIRYO TSUNODA, FES
4IM.29 6:15	A Compact, Battery-Operable, Dual-Channel, Water-Based Condensation Particle Counter. SUSANNE HERING, Gregory Lewis, David Workman, Aerosol Dynamics Inc.
4IM.30 6:15	Selective Collection in Particle Harvesting. MENG-DAWN CHENG, Oak Ridge National Laboratory
4IM.31 6:15	High Time Resolved Measurements of Ultrafine Particles, PM10, PM2.5, Nitric Oxides and Black Carbon at Berlin City. MARKUS PESCH, Volker Ziegler, Technical Director
4IM.32 6:15	A Method for Testing the Accuracy of the Hourly-Averaged PM2.5 Mass Concentration by Automated Measuring Systems for Continuous Monitoring with Laboratory Generated Aerosols. Yoshiko Murashima, HIROMU SAKURAI, AIST

4IN	UNRAVELING THE MANY FACETS OF ICE NUCLEATING PARTICLES AND THEIR INTERACTIONS WITH CLOUDS IV: POSTERS EXHIBIT HALL 5 Heike Wex and Yutaka Tobo, chairs
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4IN.1 6:15	Understanding the Ice Nucleation Potential of Organic Sea Spray Aerosols. MARTIN WOLF, Lily Dove, Allison Coe, Maria Zawadowicz, Keven Dooley, Sallie Chisholm, Daniel Cziczo, Massachusetts Institute of Technology
4IN.2 6:15	The Influence of Dust Mineralogy on Its Aerosol Suspension Freezing Behavior. KRISTINA HÖHLER, Romy Ullrich, Thea Schiebel, Nadine Schittko, Barbara Dietel, Peter G. Weidler, Konrad Kandler, Ottmar Möhler, Thomas Leisner, Karlsruhe Institute of Technology
4IN.3 6:15	Isothermal Immersion Freezing Experiments Involving Mineral Dust: The Role of INP Surface Area. ASSAF ZIPORI, Daniel Knopf, Yinon Rudich, Weizmann Institute of Science
4IN.4 6:15	Does Secondary Ice Processes in Mixed Phase Clouds More Important Than We Assume? ASSAF ZIPORI, Naama Reicher, Yigal Erel, Daniel Rosenfeld, Amir Sandler, Daniel Knopf, Yinon Rudich, Weizmann Institute of Science

4IN.6 6:15	Nanoscale Ice-Nucleating Particles in Waterbodies in an Agricultural Area. HEIKE WEX, Kathryn A. Knackstedt, Bruce Moffett, Susan Hartmann, Janine Fröhlich-Nowoisky, Thomas Hill, Sarah Grawe, Robert Michael McKay, Institute for Tropospheric Research, Germany
4IN.9 6:15	Single-Particle Mixing State and Mineralogy of North African Dust: A Comparison of Ambient Transported Dust with Laboratory Generated Proxies. NICHOLAS MARSDEN, Romy Ullrich, Ottmar Möhler, Paul Williams, Michael Flynn, James Allan, Hugh Coe, University of Manchester
4IN.10 6:15	Cleaning up Our Act: Assessment of Background Freezing Caused by Impurities and Substrates and Strategies to Reduce These Interferences in Droplet Freezing Assays. Michael Polen, Thomas Brubaker, Josh Somers, Perry Cheng, RYAN SULLIVAN, Carnegie Mellon University
4IN.11 6:15	Effects of Atmospheric Chemical Aging on Biomass Burning Aerosol Composition and Ice Nucleating Properties. LYDIA JAHL, Michael Polen, Leif Jahn, Thomas Brubaker, Ryan Sullivan, Carnegie Mellon University
4IN.12 6:15	Responses of Mixed-Phase Cloud Condensates and Cloud Radiative Effects to Ice Nucleating Particle Distributions in DOE E3SM model. YANG SHI, Xiaohong Liu, Mingxuan Wu, Kai Zhang, University of Wyoming
4IN.13 6:15	Activation of Intact Bacteria and Bacterial Fragments Mixed with Agar as Cloud Droplets and Ice Crystals in Cloud Chamber Experiments. KAITLYN J. SUSKI, David Bell, Naruki Hiranuma, Ottmar Möhler, Dan Imre, Alla Zelenyuk, Pacific Northwest National Laboratory
4IN.14 6:15	Ice Nucleation Activity of Glassy Soil Organic Particles under Cirrus Conditions. SWARUP CHINA, Daniel Veghte, Joseph Charnawskas, Johannes Weis, Kaitlyn J. Suski, Gourihar Kulkarni, Bingbing Wang, Peng Lin, Alla Zelenyuk, Mary Gilles, Daniel Knopf, Alexander Laskin, Pacific Northwest National Laboratory
4IN.15 6:15	Chemistry of Ice Nucleating Particles in Summertime Urban/Marine Conditions. MARIA ZAWADOWICZ, Michael Roesch, Martin Wolf, Daniel Cziczo, Massachusetts Institute of Technology
4IN.16 6:15	Effect of Solutes on Ice Nucleation Efficiency of Feldspar. JINGWEI YUN, Jon Davidson, Allan Bertram, University of British Columbia

4IN.18 6:15	Effect of Surface Geometry on Heterogeneous Ice Nucleation. Olli Pakarinen, Golnaz Roudsari, EVGENI ZAPADINSKY, Hanna Vehkamäki, University of Helsinki
4IN.19 6:15	Adsorption Nucleation Theory for Ice Formation from the Vapour Phase. ANDRÉ WELTI, Ana A. Piedehierro, Yrjö Viisanen, Annele Virtanen, Lise Deschutter, Outi Meinander, Ari Laaksonen, Finnish Meteorological Institute
4IN.20 6:15	A Microfluidic Ice Nucleating Particle Counter for Continuous Measurements. Ali Mohammadi Nafchi, Gavin McMeeking, ANDREW METCALF, Clemson University
4IN.22 6:15	Probing the Identity of the Ice Nucleating Particles (INPs) in a Boreal Environment. MIKHAIL PARAMONOV, Saskia Drossaart van Dusseldorp, Zamin Abdulali Kanji, ETH Zürich

4MD	AEROSOLS IN MEDICINE III: POSTERS EXHIBIT HALL 5 Andrew Martin and Philip Kuehl, chairs
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4MD.1 6:15	Hyperthermic Intracavitary Nanoaerosol Therapy (HINAT) - a Promising Approach to Treat Peritonealcarcinomatosis. Daniel Göhler, Stephan Große, LARS HILLEMANN, Alexander Bellendorf, Thomas A. Falkenstein, Mehdi Ouaiissi, Jürgen Zieren, Michael Stintz, Urs Giger-Pabst, Technische Universität Dresden
4MD.2 6:15	Analysis of Xenon Mass Transfer from Human Upper Airway to Systemic Regions using a Hybrid CFD-PBPK Model. AHMADREZA HAGHNEGAHDAR, Jianan Zhao, Max Kozak, Patrick Williamson, Yu Feng, Oklahoma State University, Stillwater, OK, USA
4MD.3 6:15	Aerosol Based Nanoscale Material Synthesis, Surface Engineering and Delivery to the Brain. RAMESH RALIYA, Nathan Reed, Debajit Saha, Dezhuang Ye, Tandeep Chadha, Hong Chen, Barani Raman, Pratim Biswas, Washington University in St. Louis
4MD.4 6:15	Pores of Kohn: Forgotten Alveolar Structures and Potential Aerosol Generators? MICHAEL OLDHAM, Owen Moss, Altria Client Services LLC
4MD.5 6:15	Characterization of Airspace Dimension Assessment with Nanoparticles (AiDA) on a Large Population and Relation to Anthropometry and Lung Function Parameters. JONAS JAKOBSSON, H Laura Aaltonen, Hanna Nicklasson, Sandra Diaz, Per Wollmer, Jakob Löndahl, Lund University

4MD.6 6:15	Predicting Local and Systemic Distributions of Inhaled Budesonide Powders using In Vitro Experiments Combined with Numerical Modeling. CONOR A. RUZYCKI, Brynn Murphy, Hafeez Nathoo, Warren H. Finlay, Andrew R. Martin, University of Alberta
4MD.7 6:15	Protein Aggregation Kinetics by Electrospray Differential Mobility Analysis. KALEB DUELGE, Vince Hackley, Michael Zachariah, University of Maryland, College Park
4MD.8 6:15	Characterization of the Aerosol Flow, Sampling and Deposition in a Nose Only Exposure Chamber. FRANCESCO LUCCI, Wei Teck Tan, Subash Krishnan, Julia Hoeng, Patrick Vanscheeuwijck, Rudolph Jaeger, Arkadiusz Kuczaj, Philip Morris International R&D
4MD.9 6:15	Method for the Production of "Universal" Inhalation Powders for Dry Powder Inhalers. Janne Raula, DAVID BROWN, Esko Kauppinen, Teicos Pharma
4MD.10 6:15	Investigation of Single Particle Frictional Electrification with Polymer Plate. JIAWEI HU, Cai Liang, Lunbo Duan, Xiaoping Chen, Daoyin Liu, Changsui Zhao, School of Energy and Environment, Southeast University
4MD.11 6:15	Patient Specific Deposition Enhancement of Nasal Sprays in Ct-Derived Human Nasal Replicas. Landon Holbrook, ALYSSA BURKE, Saikat Basu, Elizabeth Monaghan, Julia Kimbell, William Bennett, University of North Carolina at Chapel Hill

4MS	MATERIALS SYNTHESIS III: POSTERS EXHIBIT HALL 5
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4MS.1 6:15	MOFs-based Hybrid Nanocomposites for Efficient Gas Capture and Conversion: A Charge Transfer Study. Xiang He, WEI-NING WANG, Virginia Commonwealth University
4MS.2 6:15	Fabrication of Iron Oxide Nanoparticles Deposited on Crumpled Graphene for Supercapacitor Applications. CHONGMIN LEE, Sun Kyung Kim, Ji-Hyuk Choi, Hankwon Chang, Hee Dong Jang, Korea University of Science and Technology
4MS.3 6:15	Femtoliter Droplet Cloud Evaporation in an Aerosol Reactor. Yuliya Khodyko, SERGEY FISENKO, Wei-Ning Wang, Luikov Institute of Heat and Mass Transfer

4MS.4 6:15	Engineered Chitosan and Aerosol Delivery Improve Plant Protection and Reduce Agrochemical Stress on Environment. Rampura Vishwanath Kumaraswamy, Sarita Kumari, Ram Chandra Choudhary, Shyam Sundar Sahrma, Ajay Pal, RAMESH RALIYA, Pratim Biswas, Vinod Saharan, Maharana Pratap University of Agriculture and Technology, IN	4MS.13 6:15	Electrospray Deposition as a Tool for Processing Energetic Polymer Composites. Haiyang Wang, MICHAEL ZACHARIAH, University of Maryland, College Park
4MS.5 6:15	Detonation Graphene Production Scale Up. JUSTIN WRIGHT, Arjun Nepal, Stefan Bossmann, Christopher Sorensen, Kansas State University	4MS.14 6:15	Synthesis of CuO/WO₃ and Pt/WO₃ Nanocatalysts via Flame-Assisted Spray Pyrolysis and Their Photocatalytic Activity. TOMOYUKI HIRANO, Ogi Takashi, Kikuo Okuyama, Hiroshima University
4MS.6 6:15	The Study of the Role of Morphology and Functional Groups of Crumpled Graphene-based Materials to Determine their Specificity Towards Volatile Organic Compounds in Room-temperature Gas Sensing. KELSEY HADDAD, Siyuan An, Ahmed A. Abokifa, Barani Raman, Fortner John, Pratim Biswas, Washington University in St. Louis	4MS.15 6:15	Gas-phase Synthesis of Gallium Arsenide Quantum Dots through Hydrogen-assisted Spark Discharge and Its Application. KIWOONG LEE, Dongjoon Lee, Mansoo Choi, Seoul National University, Seoul, Korea
4MS.7 6:15	Synthesis of Nanoparticle-embedded Composite Films by Plasma-enhanced CVD Process Using Gaseous and Particulate Raw Materials. MANABU SHIMADA, Masaru Kubo, Yuki Shigematsu, Izumo Shimada, Hiroshima University	4MS.16 6:15	Aerosol Particle Restructuring: Molecular Dynamics of High Aspect Ratio Carbon Nanotubes. NIKOLAOS KATERIS, Adam M Boies, University of Cambridge
4MS.8 6:15	Polymer and Metal Oxides Coating of Multiwalled Carbon Nanotubes by Spray-Assisted Plasma-Enhanced Chemical Vapor Deposition. LAKSHMIPURA RAMACHANDRAIAH HEMANTH, Keita Nishihara, Masaru Kubo, Manabu Shimada, K. Kusdianto, Hiroshima University	4MS.17 6:15	Production of Cauliflower-like Amphipathic Copolymer Nanoparticles using Aerosol-Photopolymerization. Masoom Shaban, Jalal Poostforooshan, ALFRED P. WEBER, TU Clausthal
4MS.9 6:15	Effect of Loading Concentration on the Photocatalytic Activity of Ag-TiO₂ Nanocomposite Films Fabricated by One-Step Gas-Phase Deposition. DIANPING JIANG, K. Kusdianto, Masaru Kubo, Manabu Shimada, Hiroshima University	4MS.18 6:15	Preparation of Nanospherical Mesoporous Carbon Nitride with High Surface Area using Aerosol Generated Mesoporous Silica and Its Application as a Photoinitiator for Aerosol-Photopolymerization. JALAL POOSTFOROOSHAN, Masoom Shaban, Alfred P. Weber, TU Clausthal
4MS.10 6:15	Generation of Iron Oxide Nanoparticles for Follow-up Exposure Studies by MOCVD. PAVEL MORAVEC, Jaroslav Schwarz, Petr Vodi ka, Jaroslav Kup ík, Jaroslav Švehla, Institute of Chemical Process Fundamentals of the CAS, v.v.i	4MS.19 6:15	Preparation of Core-Shell Nanoparticles by Aerosol-Polymerization Process. JALAL POOSTFOROOSHAN, Masoom Shaban, Alfred P. Weber, TU Clausthal
4MS.11 6:15	Aerosol-assisted Synthesis of Materials for Application in Photovoltaics – TiO₂ + Perovskite Layers. ROBIN WHEELUS, Shalinee Kavadiya, Pratim Biswas, Washington University in St. Louis	4MS.20 6:15	Aerosol Gelation in a Buoyancy-Oppeed Flame Reactor: Application to Material Synthesis. PAI LIU, Yang Wang, Jiaxi Fang, Pratim Biswas, Rajan K. Chakrabarty, Washington University in St Louis
4MS.12 6:15	Attachment Behavior and Aggregation Kinetics of Aerosol Synthesized Oxide Nanomaterials in Water. RAMESH RALIYA, Nathan Reed, Kwon Paul, Tiana Stussie, Patchaya Tobaramееkul, Deep Hathi, Patcharin Worathanakul, Samuel Achilefu, Monica Shokeen, Pratim Biswas, Washington University in St. Louis	4MS.21 6:15	Highly Reproducible Large-Area Perovskite Solar Cells Fabricated with Megasonic Spray-Coating. MINCHEOL PARK, Woohyung Cho, Mansoo Choi, Seoul National University
		4MS.22 6:15	The Formation of Sulfur Trioxide over V₂O₅/TiO₂ Catalyst in SCR of NO_x with NH₃. YURAN LI, Bin Wang, Jin Xiong, Tingyu Zhu, Shuai Zhang, Institute of Process Eng., Chinese Academy of Sciences

4MS.23 6:15	Particle Size Distribution and Concentration of Gold Colloidal Nanoparticles. JAESEOK KIM, Min Jeong Kwak, Korea Research Institute of Standards and Science
4MS.24 6:15	Constitution Analysis of CNT Aerogel and Its Thermal Property Modification and Characterization. ZHANG XIAO, Adam M Boies, University of Cambridge

4OF
OXIDATION FLOW REACTOR: DEVELOPMENT, CHARACTERIZATION, AND APPLICATION TO AEROSOLS III: POSTERS | EXHIBIT HALL 5
William Brune and Andrew Lambe, chairs

4OF.1 6:15	A Review of Radical Chemistry in Oxidation Flow Reactors for Atmospheric Chemistry Research. ZHE PENG, Jose-Luis Jimenez, University of Colorado-Boulder
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4OF.2 6:15	Chemical Composition of Secondary Organic Aerosol Generated from Emissions of California Sage Plants Using a FIGAERO-ToF-CIMS. ARCHIT MEHRA, Jordan Krechmer, Andrew Lambe, Chinmoy Sarkar, Leah Williams, Fatemeh Khalaj, James Allan, John Jayne, Hugh Coe, Douglas Worsnop, Celia Faiola, Manjula Canagaratna, University of Manchester
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4OF.3 6:15	Secondary Organic Aerosol Formation and Aging in a Flow Reactor in the Forested Southeast US during SOAS. WEIWEI HU, Brett Palm, Pedro Campuzano-Jost, Douglas Day, Suzane de Sá, Benjamin Ayres, Danielle C. Draper, Juliane L. Fry, Amber Ortega, Lina Hacker, Astrid Kiendler-Scharr, Aki Pajunoja, Annele Virtanen, Jordan Krechmer, Manjula Canagaratna, Samantha Thompson, Laxmi Narasimha Yatavelli, Harald Stark, Douglas Worsnop, Scot T. Martin, William Brune, Steven S. Brown, Jose-Luis Jimenez, CIRES, University of Colorado, Boulder
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4OF.4 6:15	Missing Ozone-Induced Potential Aerosol Formation in a Suburban Deciduous Forest near Tokyo. TOMOKI NAKAYAMA, Yuuki Kuruma, Yutaka Matsumi, Yu Morino, Kei Sato, Hiroshi Tsurumaru, Sathiyamurthi Ramasamy, Yosuke Sakamoto, Shungo Kato, Yuzo Miyazaki, Tomoki Mochizuki, Kimitaka Kawamura, Yasuhiro Sadanaga, Yoshihiro Nakashima, Kazuhide Matsuda, Yoshizumi Kajii, ISEE, Nagoya University
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4OF.5 6:15	Using a Mobile Laboratory Equipped with an Oxidative Flow Reactor to Study Oxidative Aging of In-use Motor Vehicle Emissions. KEREN LIAO, Qi Chen, Yan Zheng, Ying Liu, Tong Zhu, Peking University
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4OF.6 6:15	Evolution of the Complex Refractive Index of Secondary Organic Aerosols during Atmospheric Aging. QUANFU HE, Nir Bluvshstein, Lior Segev, Daphne Meidan, Michel Flores, Steven S. Brown, William Brune, Yinon Rudich, Weizmann Institute of Science
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4OF.7 6:15	Investigation for the Formation of Secondary Aerosol from Passenger Vehicles by Fuel Types (Gasoline, Liquefied Petroleum Gas, and Diesel). GYUTAE PARK, Sung-Woon Jung, Jounghwa Kim, Seok-Jun Seo, Sunmoon Kim, Kyunghoon Kim, Taekho Chung, Taehyun Park, Heekyoung Hong, Sunhee Moon, Seokwon Kang, Seung Hwan Lee, Min Seok Song, Jihee Ban, Dong-Gil Yu, Youdeog Hong, Taehyoung Lee, Hankuk University of Foreign Studies
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4OF.8 6:15	Comparison of Composition and Volatility of Soa Formed from Oxidation of α-Pinene and Scots Pine Emissions. ARTTU YLISIRNIÖ, Angela Buchholz, Claudia Mohr, Andrew Lambe, Celia Faiola, Eetu Kari, Taina Yli-Juuti, Sergey Nizkorodov, Douglas Worsnop, Siegfried Schobesberger, Annele Virtanen, University of Eastern Finland
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4OF.9 6:15	Volatility Distribution of Primary Organic Aerosol from Food-Cooking Emissions and Its Evolution upon Oxidation. MANPREET TAKHAR, Arthur W. H. Chan, University of Toronto
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4OF.10 6:15	Assessment of a Field Portable Oxidation Flow Reactor (OFR) Measurement System for Biofuel Emission Characterization in Remote and Rural Settings. ADITYA SINHA, Andrew Grieshop, North Carolina State University
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4OF.11 6:15	Well Mixed, Ambient Conditions and Long Observation Times: Aging Experiments in a CSTR. FRANZ FRIEBEL, Amewu Mensah, ETH Zürich
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4RA
REMOTE/REGIONAL ATMOSPHERIC AEROSOL IV: POSTERS | EXHIBIT HALL 5
Gabriel Isaacman-VanWertz and Rebecca Schwantes, chairs

4RA.1 6:15	Atmospheric Nanoparticle Dry Deposition Velocity. PHILIPPE LAGUIONIE, Luc Solier, Denis Maro, Geoffrey Pellerin, Didier Hébert, Olivier Connan, Oumar-Telly Bah, IRSN
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4RA.2 6:15	Observational Evidence of Downdraft Clouds Contributing to Daytime Elevated Nitrate Concentration in an Urban Atmosphere. Jun Tao, Zhisheng Zhang, LEIMING ZHANG, Yunfei Wu, Junji Cao, Peng Cheng, Laiguo Chen, Renjian Zhang, South China Institute of Environmental Sciences
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4RA.3 6:15	Aerosols Characterization in Upper Egypt; Urban and Rural Measurements. MOSTAFA MOSTAFA, Hyam Khalaf, Mona Moustafa, Amer Mohamed, Ural Federal University	4RA.13 6:15	Long Term Satellite Based Study on Aerosol and Trace Gases over the Capital City of Assam, Guwahati. JHUMA BISWAS, Papor Dahutia, Pandu College, Guwahati, Assam, India
4RA.4 6:15	Vertical and Horizontal Distribution of Sub-micron Aerosol Chemical Composition and Physical Properties across Northern India, during the Pre-monsoon and Monsoon Seasons. JAMES BROOKS, Hugh Coe, William Morgan, James Allan, Paul Williams, Dantong Liu, Jim Haywood, Cathryn Fox, Justin Langridge, Ellie Highwood, Suresh Babu, S.K. Satheesh, Andrew Turner, University of Manchester	4RA.14 6:15	Chemical Composition of PM_{2.5} in Zion, IL during the 2017 Lake Michigan Ozone Study. DAGEN HUGHES, Alissia Milani, Megan Christiansen, Dylan Millet, Timothy Bertram, Charles Stanier, Elizabeth Stone, University of Iowa
4RA.5 6:15	Predicting Wildfire in United States Using Artificial Neural Network Technique. KAIYU CHEN, Hao Guo, Hongliang Zhang, Louisiana State University	4RA.15 6:15	Ice Core Recorded Black Carbon Variations from Muztagh Ata Reveal Kuwait Fires and the Quantitative Evaluation of Source Contribution and Impacts on Glacier Melting. JIAMAO ZHOU, Xuexi Tie, Shuyu Zhao, Institute of Earth Environment, Chinese Academy of Sciences
4RA.6 6:15	Investigation of the Morphology and Chemical Composition of Intra-Urban Atmospheric Particles: Case Study of Tehran, Iran. Balal Oroji, Asghar Sadighzadeh, Eisa Solgi, HOSSEIN YOUSEFI, Nuclear Science and Technology Research Institute, Iran	4RA.16 6:15	Seasonal Variations of Sahara Dust and Their Impact on the Air Quality over Western Ethiopia- First Cut Results. SATHEESH M K KUMAR, Amente Dereje Wakgari, Department of Physics, Wollega University, Nekemte, Ethiopia
4RA.7 6:15	Pollutant Measurements at Near Road and Background Sites. OLIVER RATTIGAN, H. Dirk Felton, Brian P. Frank, New York State Dept. of Environmental Conservation	4RA.17 6:15	Chemical Composition and Seasonal Variation of PM_{2.5} in Urban and Rural Regions of the Guanzhong Basin, Northwestern China. JIN LI, Gehui Wang, Jianjun Li, Institute of Earth Environment, CAS
4RA.8 6:15	Source Apportionment and Associated Oxidative Potential of Ambient PM in Beirut during Saharan and Arabian Dust Events. CHRISTOPHER LOVETT, Mohammad Sowlat, Najat A. Saliba, Alan Shihadeh, Constantinos Sioutas, University of Southern California	4RA.18 6:15	Aerosol Characterization in Oujda (Morocco) for the Period 2011-2015. Ibtissam Marsli, MOHAMMED DIOURI, Abdelouahid Tahiri, Djamaledine Chaabane, Atmospheric Physic, LME, University of Oujda, Morocco
4RA.9 6:15	Characteristics of Nuclei Mode Atmospheric Aerosol Particles during a Large Scale Fire Event. MANISH JOSHI, Mariam, Pallavi Khandare, Arshad Khan, B.K. Sapra, Bhabha Atomic Research Centre, Mumbai	4RA.19 6:15	Seasonal Changes in Organic Aerosol Composition in Ulaanbaatar, Mongolia. SKYLER SIMON, Audrey Dang, Brent Williams, Jay R. Turner, Washington University in St. Louis
4RA.10 6:15	Applications of Unmanned Aerial Systems in Atmospheric Environment Monitoring. ZHONG-REN PENG, Xiaobin Li, Dongsheng Wang, Bai Li, Shanghai Jiao Tong University	4RA.20 6:15	Aerosol Particle Dry Deposition Velocities above Grassland According to the Diameter and the Micrometeorological Parameters: The "V" Curve between 1.5 nm and 1 μm with Three Different Methods. GEOFFREY PELLERIN, Denis Maro, Evelyne Géhin, Philippe Laguionie, Olivier Connan, Didier Hébert, Luc Solier, IRSN
4RA.11 6:15	High Temporal Resolution Analysis of Fine Particles Concentrations in 5D Virtual Space. LIBOR HEJKRLÍK, Helena Plachá, Dáša Richterová, Czech Hydrometeorological Institute	4RA.21 6:15	Measured In-situ Mineral Dust Absorption Spectra. CHRISTOPHER ZANGMEISTER, James Radney, National Institute of Standards and Technology
4RA.12 6:15	Measurements and Analysis of Chemical Composition of Urban Aerosol during High Pollution Events at Guanzhong Plain, China. Junji Cao, LIU HUIKUN, Key Laboratory of Aerosol Chemistry and Physics, IEECAS	4RA.22 6:15	Measurement of Particle Concentrations in Southern New Hampshire. ANTHONY BARINELLI, Raymond J. Miller, Luke Parkhurst, Chelsea Bitter, Rudra Aryal, Franklin Pierce University

4RA.23 6:15	Use of Geostationary Satellite Data for AOD Retrieval over India for Air Quality Assessment. RASMA K., Ratish Menon, Harish Gadhavi, Virendra Sethi, Centre for Environmental Science and Engineering, IIT Bombay
4RA.24 6:15	Atmospheric Nanocluster Aerosol Emitted from Road Traffic. HEINO KUULUVAINEN, Topi Rönkkö, Panu Karjalainen, Jorma Keskinen, Risto Hillamo, Jarkko Niemi, Liisa Pirjola, Hilikka Timonen, Sanna Saarikoski, Erkka Saukko, Anssi Järvinen, Henna Silvennoinen, Antti Rostedt, Miska Olin, Jaakko Yli-Ojanperä, Pekka Nousiainen, Anu Kousa, Miikka Dal Maso, Tampere University of Technology, Tampere, Finland
4RA.25 6:15	Intensive Campaign Measurements in South of Romania. CRISTINA MARIN, Luminita Marmureanu, Simona Andrei, Livio Belegante, Alexandru Dandocsi, National Institute of R&D for Optoelectronics, UPB
4RA.27 6:15	Aerosol Optical Characteristics of Sub Saharan Area. Rajae Meziane, MOHAMMED DIOURI, Atmospheric Physic, LME, University of Oujda, Morocco
4RA.28 6:15	Aerosols Measurements Using an Elastic Lidar in Cubatao, Sao Paulo – Brazil. IZABEL DA S. ANDRADE, Elaine Cristina Araújo, Fernanda de M. Macedo, Renata F. da Costa, Eduardo Landulfo, Thais Correa, Maria Helena G.de A. Salani, Roberto Guardani, Maria Lucia G. Guardani, Marcia T. A. Marques, Daniel S. Lopes, IPEN
4RA.29 6:15	Single Scattering Albedo in Coastal Cities. Azhare El Khabbouti, MOHAMMED DIOURI, Atmospheric Physic, LME, University of Oujda, Morocco
4RA.30 6:15	Particulate and Gaseous Emissions from Brake Wear: The Eco-brake Project. FULVIO AMATO, Eleonora Conca, Mery Malandrino, Elio Padoan, Apostolos Salmatonidis, Florence Vivier, Agusti Sin, Jana Kukutschová, Spanish National Research Council (CSIC)

MONDAY | 6:15 PM - 8:30 PM

Welcome Reception

MONDAY | 6:15 PM - 8:30 PM

Historical Instrumentation Demo

TUESDAY

TUESDAY | 8:00 AM - 9:15 AM

Plenary II: Friedlander Lecture

8:00 **Industrialization of Fine-Particle-Based “Products by Process” to Enable Demanding Customer Applications**
Yakov Kutsovsky, Cabot Corporation

Moderator: Christine McCool, 3M

Panelists: Christine McCool, 3M; Doug Worsnop, Aerodyne Research; Rich Axelbaum, Washington University in St. Louis

9:00 **IARA Int Aerosol Fellows, AAAR Fellows, Sinclair Award, AS&T Outstanding Paper & Reviewer Award**

Murray Johnston, University of Delaware; Jeff Collett, Colorado State University; Warren Finlay, University of Alberta

TUESDAY | 9:00 AM - 3:00 PM

Exhibits Open

TUESDAY | 9:15 AM - 9:45 AM

Coffee Break

TUESDAY | 9:45 AM - 11:45 AM

Session 5: Platform

5AC
AEROSOL CHEMISTRY V - ATMOSPHERIC PH AND WATER EFFECTS
ROOM 275
Benjamin Nault and Shaojie Song, chairs

5AC.1
9:45 **Global Survey of Submicron Aerosol Acidity (pH).**

BENJAMIN A. NAULT, Pedro Campuzano-Jost, Douglas Day, Weiwei Hu, Brett Palm, Jason Schroder, Roya Bahreini, Joost de Gouw, Huisheng Bian, Jack Kodros, Simon Clegg, John Crouse, Jack Dibb, Paul Wennberg, Felipe Lopez-Hilfiker, Eloise Marais, Ann M. Middlebrook, J. Andrew Neuman, John Nowak, Jeffrey R. Pierce, James Roberts, Joel A. Thornton, Patrick Veres, Jose-Luis Jimenez, et al., University of Colorado-Boulder

INNOVATION POWERHOUSE

Kanomax FMT is proud to have some of the best aerosol development engineers in the world. Through their expertise we excel at detecting, sizing, and identifying nanometer particles in fluids. We have filed, and received, numerous patents for our innovative technology. We are especially proud of our new Fast Condensation Particle Counter its unique wick design presents a remarkable breakthrough in CPC design.

Upcoming products include a Drift Tube Ion Mobility Spectrometer (measures rapidly changing aerosol particles from 1-40nm) and a standalone Scanning CPC (three user-selectable sequential size cutoffs (between 7 and 20 nm)).

Our parent company, Kanomax, is headquartered in Osaka Japan and was founded in 1934. Kanomax strives to deliver the best possible solutions for measuring air flow and detecting particles across many industries, including automobile, aerospace, semiconductor, electronic equipment manufacturing, heavy industry, steel, shipbuilding, food processing, medical care, construction and civil engineering.



Fast Condensation Particle Counter



Drift Tube Ion Mobility Spectrometer



NanoAerosol Generator

Please Visit to Our : EXHIBIT BOOTH # 29 & 30, Kanomax Workshop at "University Reunions and Evening with Industry (6pm Wed Sep 5th)", Hands on Tutorial !



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5AC.2 10:00	Factors Affecting Thermodynamic Modeling of Aerosol pH. MICHAEL BATTAGLIA JR., Rodney J. Weber, Athanasios Nenes, Christopher Hennigan, University of Maryland, Baltimore County
5AC.3 10:15	Aerosol Acidity in the Southeastern United States and Source Impacts on Fine Particle pH. YU QIAN, Armistead G. Russell, Georgia Institute of Technology
5AC.4 10:30	RH Effect on the Oxidation of α-pinene and the Influence on New Particle Formation. XIAOXIAO LI, Sabrina Chee, Jingkun Jiang, James Smith, University of California, Irvine
5AC.5 10:45	Competing Effects of Water Vapor and Aerosol Liquid Water on the Yield and Molecular Composition of Secondary Organic Aerosols. LAUREN FLEMING, Julia Montoya-Aguilera, Wing-Sy DeRieux, Ying Li, Peng Lin, Alexander Laskin, Julia Laskin, Manabu Shiraiwa, Sergey Nizkorodov, University of California, Irvine
5AC.6 11:00	Insights into Aqueous-Phase Related Secondary Organic Aerosols via Mass Spectrometers in Winter in Urban Beijing. JIAN ZHAO, Conghui Xie, Weiqi Xu, Wei Du, Qingqing Wang, Wei Zhou, Pingqing Fu, Douglas Worsnop, Zifa Wang, Yele Sun, Institute of Atmospheric Physics, CAS
5AC.7 11:15	Oxidation of Polycyclic Aromatic Hydrocarbons in Secondary Organic Aerosol Particles. AMBER KRAMER, Kaitlyn J. Suski, Alla Zelenyuk, Staci L. Simonich, David Bell, Oregon State University
5AC.8 11:30	Fine Particle pH for Beijing Winter Haze as Inferred from Different Thermodynamic Equilibrium Models. SHAOJIE SONG, Meng Gao, Weiqi Xu, Jingyuan Shao, Guoliang Shi, Shuxiao Wang, Yuxuan Wang, Yele Sun, Michael McElroy, Harvard University

5AM	AEROSOL MODELING III ROOM 260 Qi Ying and Shubha Verma, chairs
5AM.1 9:45	Linked Response of Aerosol Acidity and Ammonia to SO₂ and NO_x Emissions Reductions in the US. ABIOLA LAWAL, Xinbei Guan, Cong Liu, Lucas Henneman, Vasudha Bhogineni, Rodney J. Weber, Athanasios Nenes, Armistead G. Russell, Georgia Institute of Technology
5AM.2 10:00	Improving SOA Formation in the Source-oriented WRF/Chem Model (SOWC) in Southeast US and the Air Quality and Climate Impacts. HONGLIANG ZHANG, Anikender Kumar, Michael Kleeman, Louisiana State University

5AM.3 10:15	Improved Prediction of Aerosol Optical and Chemical properties over the Indian Subcontinent from Constrained Aerosol Simulation. Bharath Kumar, SHUBHA VERMA, Olivier Boucher, Rong Wang, Indian Institute of Technology Kharagpur
5AM.4 10:30	Important Role of Ammonia in New Particle Formation in the Earth's Atmosphere. FANGQUN YU, Alexey Nadykto, Gan Luo, Jason Herb, James Schwab, Joseph P. Marto, Junying Sun, Xiaojing Shen, Kirill Nazarenko, Lyudmila Uvarova, University at Albany
5AM.5 10:45	Aqueous Formation of Low Volatile Organic Compounds using Coupled CMAQ-MCM-CAPRAM. QI YING, Jingyi Li, Jianlin Hu, Texas A&M University
5AM.6 11:00	Parametrisation of the Multi-Component System: HOM+H₂SO₄+NH₃, Measured by the CERN CLOUD Experiment. Simone Schuchmann, HAMISH GORDON, Ken Carslaw, Jasper Kirkby, CLOUD Collaboration, CERN
5AM.7 11:15	Application of Boosted Regression Trees Technique to Analyse Particle Number Count Concentrations [PNC] at the East Coast of Malaysia. NOOR ZAITUN YAHAYA, Siew Moi Phang, Azizan Abu Samah, Intan Nabila Azman, Senior Lecturer, Universiti Malaysia Terengganu, Malaysia
5AM.8 11:30	Understanding Significant Variations of Particle Formation and Number Concentration from Surface to the Upper Troposphere over the Central Pacific Ocean. GAN LUO, Fangqun Yu, Charles Brock, Agnieszka Kupc, Christina Williamson, The State University of New York at Albany

5AP	AEROSOL PHYSICS III ROOM 274 Cari Dutcher and Jenni Kontkanen, chairs
5AP.1 9:45	Understanding the Partitioning of Water and Secondary Organic Matter Using Optically Trapped Single Particles. STEPHEN INGRAM, Young-Chul Song, David Topping, Simon O'Meara, Jonathan P. Reid, University of Bristol
5AP.2 10:00	Growth of Atmospheric Clusters by Organic Vapors: Resolving the Growth Mechanism. JENNI KONTKANEN, Tinja Olenius, Markku Kulmala, Ilona Riipinen, University of Helsinki
5AP.3 10:15	Effect of Temperature on Evaporation of α-Pinene Secondary Organic Aerosol. ZIJUN LI, Angela Buchholz, Olli-Pekka Tikkanen, Eetu Kari, Liqing Hao, Taina Yli-Juuti, Annele Virtanen, University of Eastern Finland

5AP.4 10:30	Effect of Particle Charge on Aerosol Dynamics in Teflon Environmental Chambers. SOPHIA CHARAN, Weimeng Kong, Richard Flagan, John Seinfeld, California Institute of Technology
5AP.5 10:45	Formation and Evaporation Kinetics of Organic Aerosol from Oxidation of Precursor Mixtures by the Nitrate Radical. THOMAS BERKEMEIER, Masayuki Takeuchi, Gamze Eris, Michael Walker, Brent Williams, Nga Lee Ng, Georgia Institute of Technology
5AP.6 11:00	Air Ions – the Key in Understating Features in the Surface Atmospheric Electric Field in Relation to Aerosol Processes in the Lower Atmosphere. XUEMENG CHEN, Susana Barbosa, Antti Mäkelä, Jussi Paatero, Veli-Matti Kerminen, Tuukka Petäjä, Markku Kulmala, University of Helsinki, Finland
5AP.7 11:15	Fragmentation of Ionised Atmospheric Clusters inside a Mass Spectrometer. Monica Passananti, EVGENI ZAPADINSKY, Juha Kangasluoma, Nanna Myllys, Michel Attoui, Hanna Vehkamäki, University of Helsinki
5AP.8 11:30	Using Droplet Microfluidic Wells to Study Thermodynamics, Morphology, and Phase of Single Aqueous Aerosol Droplet Systems. Lucy Nandy, CARI DUTCHER, University of Minnesota, Twin Cities

5CA	CARBONACEOUS AEROSOL III: OPTICAL PROPERTIES ROOM 265/266 Jason Olfert and Andrew Metcalf, chairs
5CA.1 9:45	A Methodology to Create Reproducible Reference Standards for Filter-Based Measurements of Light Absorbing Particles. Paul A. Solomon, Anna-Marie Hyatt, ANTHONY D.A HANSEN, Office of Research and Development, US EPA, LV, NV
5CA.2 10:00	A Study on Light Absorbing Carbon Soot Particles and Their Speciation over Semi-arid Region of Indo-Gangetic Basin. PRATIMA GUPTA, Ashok Jangid, Ranjit Kumar, DEI, Dayalbagh, Agra, India
5CA.3 10:15	Temperature Matters More than Concentration: CCN-activation of Soot after Exposure to Ozone under Atmospheric Conditions. FRANZ FRIEBEL, Amewu Mensah, ETH Zürich
5CA.4 10:30	Characterization Of Laser Derivatized Soot Nanostructure Towards Identifying Its Source. MADHU SINGH, Randy Vander Wal, The Pennsylvania State University

5CA.5 10:45	Effects of Uneven Coating on the Absorption Enhancement of Soot Aggregates. WILLIAM HEINSON, Rajan K. Chakrabarty, Washington University in St. Louis
5CA.6 11:00	Characterization of a Novel Miniature Inverted Burner for Soot Particle Generation. Aireza Moallemi, Mohsen Kazemianesh, JOEL CORBIN, Gregory Smallwood, Jason S. Olfert, Prem Lobo, National Research Council Canada
5CA.7 11:15	UV-visible Absorption Spectrum of Laboratory-generated Soot Particles. Al Fischer, Taylor Helgestad, Lindsay Renbaum-Wolff, Andrew Lambe, Arthur J. Sedlacek, Christopher Cappa, Andrew Freedman, Timothy Onasch, Paul Davidovits, GEOFFREY SMITH, University of Georgia
5CA.8 11:30	Optical Properties and Radiative Forcing of Fractal-like Aggregates of Tar Balls from Wildfire Smoke Plumes. JANARJAN BHANDARI, Swarup China, Giulia Giroto, Barbara Scarnato, Kyle Gorkowski, Allison Aiken, Manvendra Dubey, Claudio Mazzoleni, Michigan Technological University

5CD	AEROSOLS AND HEALTH - CONNECTING THE DOTS I ROOM 276 Sagnik Day and Ralf Zimmermann, chairs
5CD.1 9:45	Synergy between Power Plant and Vehicle Emissions Produce Aerosols Linked to Adverse Cardiovascular Outcomes. RODNEY J. WEBER, Jenny P.S. Wong, Athanasios Nenes, James Mulholland, Armistead G. Russell, Dongni Ye, Stefanie Ebel Sarnat, Georgia Institute of Technology
5CD.2 10:00	Tissue-Delivered Dose – Not Exposure Concentration – Allows Conversion of Toxicological Studies into Acceptable Human Exposure Limits. OTMAR SCHMID, Helmholtz Zentrum Munchen, Comprehensive Pneumology Center
5CD.3 10:15	A Novel Weighted Sum Method to Measure Particle Geometric Surface Area in Real-Time. LEO N.Y. CAO, David Y. H. Pui, University of Minnesota
5CD.4 10:30	Is the Particle Deposition in a Cell Exposure Facility Comparable to the Lungs? ERWIN KARG, George A. Ferron, Sebastian Oeder, Ralf Zimmermann, Helmholtz Zentrum München and Rostock University

5CD.5 10:45	Optimization of DAVID Cell Exposure System for Toxicity Analysis of Nanoparticles at the Air-Liquid Interface. TREVOR TILLY, Ryan Ward, Jiva Luthra, Sarah Robinson, Arantzazu Eiguren Fernandez, Saber Hussain, Tara Sabo-Attwood, John Lednický, Chang Yu Wu, University of Florida
5CD.6 11:00	Oxidative Potential of Quinones in Simulated Epithelial Lining Fluid Alone and in Combination with Redox-Active Metals. KARSTEN BAUMANN, Marco Wietzorek, Jake Wilson, Pourya Shahpoury, Steven Lelieveld, Haijie Tong, Ulrich Pöschl, Gerhard Lammel, Max Planck Institute for Chemistry
5CD.7 11:15	A New Physical Approach to Infer PM10 Using Remote Sensing and Reanalysis Aerosol Products: Application for Air Quality Study in India. SAGNIK DEY, Pritha Pande, Sourangsu Chowdhury, Palash Choudhary, Sudipta Ghosh, Parul Srivastava, Babu Sengupta, IIT Delhi
5CD.8 11:30	Oxidative Potential of Ambient Fine Aerosol during Intense Biomass Burning over the Indo-Gangetic Plain-India. ANIL PATEL, Rangu Venkata Satish, Atinderpal Singh, Darshan Singh, Neeraj Rastogi, Physical Research Laboratory, Ahmedabad, India

5CM	CONTROL AND MITIGATION V ROOM 264 Sheehan Maura and Min Zhong, chairs
5CM.1 9:45	Lower Order Representations of Evolving Particle Size Distributions for Rapid Gas-Particle Mass Transfer Simulations during Electrostatic Precipitation. HEREK CLACK, University of Michigan
5CM.2 10:00	Development of Filter-free Particle Filtration Unit Utilizing Condensational Growth. Taejune Park, Miji Lee, Juwon Pyo, DONGGEUN LEE, Pusan National University
5CM.3 10:15	A Corona Charger System for Improving Particle Filtration Efficiency of Flue Gas Scrubbers and Cyclones in Small Biomass-fired Boilers. HEIKKI SUHONEN, Ari Laitinen, Miika Kortelainen, Arunas Mesceriakovas, Hanna Koponen, Petri Tiitta, Pasi Yli-Pirilä, Jorma Jokiniemi, Olli Sippula, University of Eastern Finland, Kuopio, Finland
5CM.4 10:30	Correlation Between Corona Current Distribution and Collection of Sulfuric Acid Aerosol in a Wet Electrostatic Precipitator. YIFAN WANG, Chenghang Zheng, Xuefeng Zhang, Zhengda Yang, Yi Wang, Dawei Duan, Xiang Gao, Zhejiang University

5CM.5 10:45	Exploring the Methods of Enhancing the Particle Charge in ESP. DAWEI DUAN, Chenghang Zheng, Qianyun Chang, Zhengda Yang, Yi Wang, Yifan Wang, Xiang Gao, Zhejiang University
5CM.6 11:00	Development of Electrodynamic Dust Shield Technology for Solar Energy Applications. BING GUO, Wasim Javed, Benjamin Figgis, Texas A&M University at Qatar
5CM.7 11:15	Electro-scavenging of Airborne Particles by Electro Hydrodynamic Atomizer (EHDA) Generated Charged Droplets. Arshad Khan, Sanjay Singh, B.K. Sapra, Y.S. MAYYA, Bhabha Atomic Research Centre, Mumbai
5CM.8 11:30	High-efficiency Particulate Removal by Photoionization Enhanced Electrostatic Precipitation. TANDEEP CHADHA, Jiaxi Fang, Pratim Biswas, Applied Particle Technology, LLC

5IM	INSTRUMENTATION III: SINGLE-PARTICLE TECHNIQUES, CHEMICAL ANALYSIS FERRARA THEATER Hallie Boyer and Kyle Gorkowski, chairs
5IM.1 9:45	Scattering Matrices of Single Levitated Particles. ALEXANDRIA JOHNSON, Maria Zawadowicz, Sara Lance, Daniel Cziczko, MIT
5IM.2 10:00	Dual-Beam Optical Tweezers Development for Measuring the Dynamic Evolution of Aerosol Surface Tension and Viscosity. Aidan Rafferty, KYLE GORKOWSKI, Thomas Preston, McGill University
5IM.3 10:15	Anatomy of Single Airborne Aerosol Particle Using Laser-trapped Submicron Position-resolved Temporal Raman Spectra. Aimable Kalume, Chuji Wang, Joshua Santarpia, YONG-LE PAN, U.S. Army Research Laboratory, Adelphi, MD
5IM.4 10:30	Design and Application of Aerosol Optical Tweezers to Explore Temperature Effects on Phase Separation and Acidity of Organic Aerosol at Subzero Temperatures. HALLIE BOYER, Kyle Gorkowski, Neil Donahue, Ryan Sullivan, Carnegie Mellon University
5IM.5 10:45	In-Situ Characterization of Aerosol Nanoparticles at Close-To-Ambient Conditions by Small Angle X-Ray Scattering (SAXS). PAULUS S. BAUER, Heinz Amenitsch, Bernhard Baumgartner, Christian Rentenberger, Paul M. Winkler, Universitaet Wien & VDSP, Vienna, Austria

5IM.6 11:00	Aerosol Spark Emission Spectrometer (ASES) for the Measurement of Trace Metals Concentration in Particulate Emissions from the Combustion of Coal in a Household Heating and Cooking Stove. NATHAN REED, Yixiang Zhang, Zhichao Li, Sameer Patel, Jiayu Li, Zehua Wang, Lina Zheng, Pramod Kulkarni, Pratim Biswas, Washington University in St. Louis
5IM.7 11:15	Measuring Functional Group Composition in Complex Environmental Samples: Infrared Photodissociation of Ions from Secondary Organic Aerosol. Emma Walhout, Jonathan Martens, Giel Berden, Jos Oomens, Jesse Kroll, RACHEL O'BRIEN, College of William and Mary
5IM.8 11:30	Bounding Uncertainty in Functional Group Reconstruction of Organic Carbon and Organic Matter Concentrations in PM_{2.5} For the Improve Monitoring Network. MATTEO REGGENTE, Ann Dillner, Satoshi Takahama, EPFL

5MS	MATERIALS SYNTHESIS IV ROOM 263 Randy Vander Wal and Jyrki Mäkelä, chairs
5MS.1 9:45	Spark Production of Internally Mixed Nanoparticles by Oscillating Sparks. Jicheng Feng, Nabil Ramlawi, George Biskos, ANDREAS SCHMIDT-OTT, TU Delft
5MS.2 10:00	Scaling-up of Extractor-Free Electrohydrodynamic Emitter Arrays in Linear Configuration. Nikolas Sochorakis, Jordi Grifoll, JOAN ROSELL-LLOMPART, Universitat Rovira i Virgili
5MS.3 10:15	Magnetic Nanoparticle Chain Formation in a Combined Electric and Magnetic Field. CALLE PREGER, Knut Deppert, Maria E Messing, Lund University
5MS.4 10:30	3D Nano-Printing via Electric-Field Assisted Aerosol Lithography. WOOIK JUNG, Yoon-ho Jung, Mansoo Choi, Seoul National University
5MS.5 10:45	Low Temperature Plasma Synthesis of Pure and Uniform III-V Semiconductor Nanoparticles from Bulk Metals. NECIP BERKER UNER, Elijah Thimsen, Washington University in St. Louis
5MS.6 11:00	Easy On-demand Aerosol Doping Process to Fabricate Safer Antimicrobial Telluride Nanocomposites. DAE HOON PARK, Milan Gautam, Sung Jae Park, Jung-ho Hwang, Jong Oh Kim, Jeong Hoon Byeon, Yonsei University, Korea

5MS.7 11:15	Plasma Synthesis of Mass-Produced CNT Materials. BRIAN GRAVES, Jean de La Verpilliere, Simon Engelke, Fiona Smail, Michael De Volder, Adam M Boies, University of Cambridge
5MS.8 11:30	Nanographene Aerosol Production from Natural Gas by Microwave Plasma. RANDY VANDER WAL, Arupnanda Sengupta, Evan Musselman, Kurt Zeller, George Skoptsov, The Pennsylvania State University

5RA	REMOTE/REGIONAL ATMOSPHERIC AEROSOL V: URBAN AEROSOL ROOM 267 Yinon Rudich and Amy Sullivan, chairs
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5RA.1 9:45	Urban Substrates: Atmospheric Particle-bound Radionuclide Traps - The Example of Beryllium-7. PHILIPPE LAGUIONIE, Denis Maro, Luc Solier, Marianne Rozet, Didier Hébert, Pierre Rounsard, Olivier Connan, IRSN
5RA.2 10:00	Air Quality in a Street Canyon – Before and After Mobility Solutions. MARINA ALMEIDA-SILVA, Susana Marta Almeida, Filipa Vogado, Célia Alves, Evangelia Diapouli, Konstantinos Eleftheriadis, C2TN, IST, Universidade de Lisboa; ESTeSL, IPL, Portugal
5RA.3 10:15	Particle Emissions from Brakes – Sampling, Quantification and Characterization. MICHAEL ARNDT, Athanasios Mamakos, Klaus Augsburg, David Hesse, Fekix Wenzel, AVL List GmbH
5RA.4 10:30	On-road Measurements of Secondary Aerosol and Size Dependent Number Emission Factors for Motorway Traffic Emissions across Europe Using a Mobile Laboratory Setup. MIIKKA DAL MASO, Joni Heikkilä, Miska Olin, Pauli Simonen, Antti Rostedt, Erkka Saukko, Heino Kuuluvainen, Joni Kalliokoski, Outi Potila, Anssi Järvinen, Mikko Poikkimäki, Topi Rönkkö, Jorma Keskinen, Tampere University of Technology, Tampere, Finland
5RA.5 10:45	Phenomenology and Sources of Submicron Aerosol Particles in a Mediterranean Harbour. BENJAMIN CHAZEAU, Grégory Gille, Boualem Mesbah, Brice Temime-Roussel, Henri Wortham, Nicolas Marchand, Aix-Marseille Université, CNRS, LCE FRE 3416
5RA.6 11:00	PM_{2.5} and Its Chemical Composition in Sixteen Cities in Indonesia. MUHAYATUN SANTOSO, Diah Lestiani, Syukria Kurniawati, Endah Damastuti, Indah Kusmartini, Djoko Prakoso, Dyah Kumala Sari, Philip K. Hopke, Rita Mukhtar, et al., Center for Applied Nuclear Science and Technology, BATAN

5RA.7 11:15	The Extinction Coefficient of the Aerosol over the Denver Metropolitan Area: Comparison with a Historic Data Set. HELMUTH HORVATH, Paulus S. Bauer, University of Vienna, Faculty of Physics, AEP
5RA.8 11:30	Aerosol Chemical Composition Measurements from a Ship Campaign across the Mediterranean and Middle East during the Summer of 2017. JAMES BROOKS, Eoghan Darbyshire, Frank Drewnick, Stephan Borrmann, Hugh Coe, University of Manchester

TUESDAY | 11:45 AM - 1:15 PM

Lunch on Your Own

TUESDAY | 12:00 PM - 1:00 PM

Industry-Academia Partnership Forum

TUESDAY | 12:00 PM - 1:00 PM

IARA Board Meeting with Lunch

TUESDAY | 1:15 PM - 3:00 PM

Fuchs Awards, Lecture & Reception

1:15	Fuchs Awards, Lecture & Reception Urs Baltensperger, Paul Scherrer Institute
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TUESDAY | 3:00 PM - 5:15 PM

Session 6: Platform

6AC	AEROSOL CHEMISTRY VI - PHYSICAL CHEMISTRY OF AEROSOLS ROOM 275 James Davies and Bryan Bzdek, chairs
6AC.1 3:00	Aerosol Droplets Exhibit Stable pH Gradient. Haoran Wei, Qishen Huang, Linsey Marr, PETER VIKESLAND, Virginia Tech
6AC.2 3:15	Exploring Acidity in 1-10 μm Sized Liquid-Liquid Phase Separated Aerosol Particles. REBECCA CRAIG, Andrew Ault, University of Michigan

6AC.3 3:30	An Integrated Approach to Connecting the Chemical and Physical Properties of Aerosol. JAMES F. DAVIES, Michael Jacobs, Kevin Wilson, University of California, Riverside
6AC.4 3:45	Molecularly Resolved Atmospheric Aerosol Processes Studied in Single Levitated Particles Using Electrodynamic Balance Mass Spectrometry. ADAM BIRDSALL, John Hensley, Paige Kotowitz, Andrew Huisman, Frank Keutsch, Harvard University
6AC.5 4:00	Dynamics of Liquid-Liquid Phase-Separation Using Spatial-Resolved Raman Spectroscopy of a Laser-Trapped Mixed Organic-Organic Aerosol Droplet. AIMABLE KALUME, Chuji Wang, Joshua Santarpia, Patricio Piedra, Yong-Le Pan, U.S. Army Research Laboratory
6AC.6 4:15	Measurements and Modelling of Surfactant Coated Aerosol Particles. BRYAN R. BZDEK, Jussi Malila, Nonne Prisle, Jonathan P. Reid, University of Bristol
6AC.7 4:30	Exploring Chemistry in Microdroplets in a Branched Quadrupole Trap. MICHAEL JACOBS, James F. Davies, Ryan Davis, Lance Lee, Frances Houle, Kevin Wilson, Lawrence Berkeley National Laboratory
6AC.8 4:45	Interactions at the Aqueous Aerosol Surface. LIN DU, Siyang Li, Shandong University
6AC.9 5:00	Validating a Surface Concentration Model. Anthony Toribio, Nonne Prisle, ANTHONY S. WEXLER, University of California, Davis

6AE
AEROSOL EXPOSURE II: OUTDOOR/ INDOOR/PERSONAL EXPOSURE
ROOM 265/266
Yifang Zhu and Joshua Apte, chairs

6AE.1 3:00	Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) in PM10 at Urban Area of a Semi-Arid Region of India. AMIT MASIH, St. Andrew's College, Gorakhpur, India
6AE.2 3:15	Particulate Matter Concentrations from Urban Settings of Pakistan, China and Europe (UK). IRFAN ZAINAB, Zulfiqar Ali, Zona Zaidi, Syed Turab Raza, Zaheer Ahmad Nasir, Ian Colbeck, Liu Weilong, University of the Punjab, Lahore, 54590, Pakistan
6AE.3 3:30	Secondhand Smoke Exposure during the Travel between United States and China: The Association with Urinary Biomarkers of Polycyclic Aromatic Hydrocarbons and Lipid Peroxidation. Yan Lin, Xinghua Qiu, YIFANG ZHU, University of California Los Angeles

6AE.4 3:45	Vertical Variations in Outdoor Particulate Matter along the Height of a Tall Building in an Urban Environment. PARHAM AZIMI, Haoran Zhao, Torkan Fazli, Dan Zhao, Afshin Faramarzi, Luke Leung, Brent Stephens, Illinois Institute of Technology
6AE.5 4:00	Assessment of Personal Exposure to Particulate Emissions in Urban Microenvironments. Jie Rui Ngoh, Thi Minh Phuong Tran, RAJASEKHAR BALASUBRAMANIAN, National University of Singapore
6AE.6 4:15	Neighborhood-scale Spatial Variability of PM Mass and Number and Exposure Misclassification in an Eastern US City. Hugh Li, Peishi Gu, Qing Ye, Naomi Zimmerman, Ellis Shipley Robinson, R. Subramanian, Joshua Apte, Allen Robinson, ALBERT A. PRESTO, Carnegie Mellon University
6AE.7 4:30	Early Lessons from New Air Pollution Exposure Science: High-resolution Mapping of Urban Air Quality using Google Street View Cars, Low-cost Samplers, and Aerosol Mass Spectrometry. JOSHUA APTE, Kyle Messier, Sarah Chambliss, Michael Brauer, Julien Caubel, Shahzad Gani, Steven Hamburg, Thomas W. Kirchstetter, Julian Marshall, Brian LaFranchi, Melissa M. Lunden, Chelsea V. Preble, Albert A. Presto, Christopher Portier, Allen Robinson, Ellis Shipley Robinson, Rishabh Shah, Karin Tuxen-Bettman, Roel Vermeulen, Ramon Alvarez, University of Texas at Austin
6AE.8 4:45	Child Exposure to Indoor and Outdoor PM at Schools and Homes in the Lisbon Metropolitan Area, Portugal. VÂNIA MARTINS, Susana Marta Almeida, Tiago Faria, Carolina Correia, Inês Cunha-Lopes, Nuno Canha, Evangelia Diapouli, Manos Manousakas, Konstantinos Eleftheriadis, C2TN, IST, Universidade de Lisboa, Portugal
6AE.9 5:00	Descriptive Characterization of Personal Exposure to Fine and Ultrafine Particle Among Inner-City Children with Asthma. Ehsan Majd, KIRSTEN KOEHLER, Meredith McCormack, Nadia Hansel, Johns Hopkins School of Public Health

6AM	AEROSOL MODELING IV ROOM 260 Carlos Larriba Andaluz and Ranganathan Gopalakrishnan, chairs
6AM.1 3:00	A Computational Study of Electrostatic Focusing of Aerosol Nanoparticles Using A 3-Electrode Einzel Lens. RAYHAN AHMED, Ranganathan Gopalakrishnan, The University of Memphis

6AM.2 3:15	A Binary Nucleation Model for Engineering Layered Drug Nanoparticles from Air Jet Atomization of Two-Solute Solutions. Y.S. MAYYA, Chandra Venkataraman, Indian Institute of Technology Bombay
6AM.3 3:30	Numerical Model for the Aerosol Formation Process in an Electrically Heated Tobacco Product. MARKUS NORDLUND, Philip Morris Products S.A., Switzerland
6AM.4 3:45	A Multiscale Model for Evolving Multispecies Aerosol Deposition and Absorption in the Human Lung. Ravi Kannan, Z.J. Chen, ANDRZEJ PRZEKAWAS, Florian Martin, Julia Hoeng, Arkadiusz Kuczaj, CFD Research Corporation
6AM.5 4:00	Numerical Study of Flow Rate Effect on Hygroscopic Aerosol Transport and Deposition in a Basic Mouth-throat Airway with Realistic Wall Conditions. XIAOLE CHEN, Clement Kleinstreuer, Yu Feng, Tong Lu, Baobin Sun, Wenqi Zhong, Southeast University
6AM.6 4:15	Understanding Particulate Matter Formation in CO2 Capture Plants using Molecular Dynamics Simulation. MEHDI AMOUEI TORKMAHALLEH, Mansurov Ulan, Dhawal Shah, Chemical and Aerosol Research Team, Nazarbayev University
6AM.7 4:30	Aerosol Formation and Growth in Amine-based CO2 Scrubber: Experiments and Numerical Simulation. DAVID I. A. DHANRAJ, Zhichao Li, Pratim Biswas, Washington University in St. Louis
6AM.8 4:45	A Field Dependent and Orientation Dependent Mobility Calculator: The Next Generation of Electrical Mobility Calculations. Behram Kapadia, Tianyang Wu, CARLOS LARRIBA-ANDALUZ, IUPUI
6AM.9 5:00	Calculating Wet Deposition and Aerosol Sizes Sensitivities within a Lagrangian Particle Dispersion Code. LI KAIBO, Xu Xuefeng, China Academy Of Engineering Physics

6CC	CLOUDS AND CLIMATE I ROOM 264 Jurgita Ovadnevaite and Akua Asa-Awuku, chairs
6CC.1 3:00	Modification of the Versatile Aerosol Concentration Enrichment Factor System (VACES) for Cloud Condensation Nuclei Concentrator Purposes. CARMEN DAMETO DE ESPAÑA, Anna Wonaschuetz, Gerhard Steiner, Harald Schuh, Constantinos Sioutas, Regina Hitzemberger, University of Vienna

6CC.2 3:15	Method to Retrieve Cloud Condensation Nuclei Number Concentrations Using Multiwavelength Raman Lidar. WANGSHU TAN, Chengcai Li, Yingli Yu, Chunsheng Zhao, Peking University
6CC.3 3:30	CCN Activity of Secondary Organic Aerosol Largely Controlled by Molecular Weight. JIAN WANG, John Shilling, Jiumeng Liu, Alla Zelenyuk, David Bell, Markus Petters, Ryan Thalman, Fan Mei, Rahul Zaveri, Guangjie Zheng, Brookhaven National Laboratory
6CC.4 3:45	A Model Intercomparison of CCN-Limited Tenuous Clouds in the High Arctic. Robin Stevens, HAMISH GORDON, Katharina Loewe, Christopher Dearden, Antonios Dimitrellos, Anna Possner, Gesa Eirund, Tomi Raatikainen, Adrian Hill, Benjamin Shipway, Jonathan Wilkinson, Sami Romakkaniemi, Juha Tonttila, Ari Laaksonen, Hannele Korhonen, Paul Connolly, Ulrike Lohmann, Corinna Hoose, Annica Ekman, Ken Carslaw, Paul Field, University of Leeds
6CC.5 4:00	Marine Aerosol Cloud Activation. JURGITA OVADNEVAITE, Kirsten Fossum, Darius Ceburnis, Colin O'Dowd, National University of Ireland Galway, Ireland
6CC.6 4:15	The Role of Aerosol-Radiative Forcing on the Monsoon Trough Oscillations. RAJA BORAGAPU, Padmakumari B., R.S. Maheskumar, Indian Institute of Tropical Meteorology (IITM), Pune, India
6CC.7 4:30	Overview of Fog Water Chemistry in Namibia during the AEROCLO-SA Campaign. Denise Napolitano, Stéphanie Rrossignol, Chiara Giorio, Roland Mushi, Gillian Maggs-Kölling, Barbara D'Anna, Bruno Coulomb, Jean-Luc Boudenne, Stuart J. Piketh, Andreas Namwoonde, Paola Formenti, Anne Monod, PIERRE HERCKES, Arizona State University
6CC.8 4:45	Coastal Aerosol and Fog Microphysics in Atlantic Canada. RACHEL CHANG, Patrick Duplessis, Sean Hartery, Sonja Bhatia, Michael Wheeler, Annie Marie Macdonald, Dalhousie University
6CC.9 5:00	Single Particle Measurements of Size and Mixing State of Black Carbon Particles Combined with Simplified κ-Köhler Theory Explains Their Droplet Activation Behaviour Observed in Fog and Clouds. MARTIN GYSEL, Ghislain Motos, Julia Schmale, Joel Corbin, Marco Zanatta, Robin Modini, Urs Baltensperger, Paul Scherrer Institute

6CD	AEROSOLS AND HEALTH - CONNECTING THE DOTS II ROOM 276 Otmar Schmid and Vishal Verma, chairs
6CD.1 3:00	Lung Capacity of Traffic Wardens Affected by Vehicular Pollution in Lahore, Pakistan. SAIMA YAQUB SHELLY, Husna Malik, Zulfiqar Ali, Farkhanda Manzoor, Sammuel Shahzad, Zaheer Ahmad Nasir, Lahore College for Women University, 54600, Lahore, Pakistan
6CD.2 3:15	Characterization of Electrophilic and Oxidative Potential of Atmospheric Carbonyls. JIN CHEN, Stacy Chen, Cody Cullen, C.M. Sabbir Ahmed, Ying-Hsuan Lin, University of California, Riverside
6CD.3 3:30	Connecting the Dots in Nanotoxicology: From the Bio-Nano-Interface to Adverse Health Effects. Stefano Poggio, David Power, Hender Lopez, VLADIMIR LOBASKIN, School of Physics, University College Dublin. INVITED.
6CD.4 3:45	The Impacts of Dust Storm Particles on Human Lung Cells - an Analysis at the Single Cell Level. KARIN ARDON-DRYER, Caroline Mock, Jose Reyes, Galit Lahav, Department of Geosciences, Texas Tech University, Lubbock, T
6CD.5 4:00	Measuring the Real-Time Oxidative Potential of Ambient Particulate Matter Using an Online Mist Chamber System. JOSEPH PUTHUSSERY, Chen Zhang, Vishal Verma, University of Illinois Urbana-Champaign
6CD.6 4:15	Real-time Dosimetry for In-vitro Toxicological Studies of Engineered Nanoparticles (ENPs) at the Air-liquid Interface Using a Quartz Crystal Microbalance (QCM). Yaobo Ding, Patrick Weindl, Clara Wimmer, Paula Mayer, Tobias Krebs, OTMAR SCHMID, Helmholtz Zentrum München, Germany
6CD.7 4:30	Application of Air-Liquid-Interface (ALI) Based In-Vitro Exposure of Human or Murine Lung Cells and Validation by Selected Animal Exposure Tests in the Framework of the HICE Consortium to Investigate Fresh and Aged Combustion Aerosols. RALF ZIMMERMANN, Maija-Riitta Hirvonen, Jorma Jokiniemi, Gunnar Dittmar, Jeroen Buters, Hanns Rudolf Paur, Carsten Weiß, Bert Buchholz, Tamara Kanashova, Sebastian Oeder, Marco Dilger, Tobias Krebs, Sven Ehlert, Thorsten Streibel, Juergen Schnelle-Kreis, Martin Sklorz, Stefanie Kasurinen, Sebastiano di Bucchianico, Johannes Passig, Jürgen Orasche, Mikko Happonen, Hendryk Czech, Olli Sippula, Pasi Jalava, and further HICE co-workers (et al.), Helmholtz Zentrum München and Rostock University

6CD.8 4:45	Detection of Living Animal's Exhaled Breath Biomarker (dLABer) System. Haoxuan Chen, Xiangyu Zhang, Xinyue Li, Jing Li, MAOSHENG YAO, Peking University
6CD.9 5:00	Near-Roadway Effects on Expression of Autism Spectrum Disorder-Related Phenotypes. KEITH BEIN, Christopher Wallis, Xiao-San Luo, Elizabeth Berg, Michael Pride, Kelley Patten, Anthony Valenzuela, Eduardo Gonzalez, Jill Silverman, Pamela Lein, Anthony S. Wexler, University of California Davis

6IB	INFECTIOUS BIOAEROSOL I ROOM 274 Shanna Ratnesar-Shumate and Richard Thomas, chairs
6IB.1 3:00	Mechanistic Modeling of Pathogen Transmission. LYDIA BOUROUBA, Massachusetts Institute of Technology. KEYNOTE.
6IB.3 3:30	Aerosol Particle Emission and Super-emission during Human Speech. SIMA ASADI, Anthony S. Wexler, Christopher Cappa, Nicole M. Bouvier, Santiago Barreda, William D. Ristenpart, University of California Davis
6IB.4 3:45	Novel Method for Identification of Airborne Transmission Using Molecular Epidemiology. Donald Milton, DAN NASKO, Todd Treangen, University of Maryland
6IB.5 4:00	Foot-and-Mouth Disease Aerosols: Past and Future Perspectives. CLAIRE COLENTT, Noel Nelson, Emma Brown, Simon Gubbins, The Pirbright Institute
6IB.6 4:15	Stability of Variant H1 Subtype Influenza Viruses in Aged Aerosols and Their Infectivity in the Ferret Model. JOANNA PULIT-PENALOZA, Jessica Belser, Terrence Tumpey, Taronna Maines, Centers for Disease Control and Prevention
6IB.7 4:30	Influenza Virus Maintains Infectivity in Droplets and Aerosols Independent of Relative Humidity. Karen Kormuth, Kaisen Lin, Aaron Prussin II, Eric Vejerano, Andrea Tiwari, Steve Cox, Mike Myerburg, Seema Lakdawala, LINSEY MARR, Virginia Tech
6IB.8 4:45	Aerosol and Surface Sampling for a Novel H7N2 Influenza A Virus at a New York City Feline Quarantine Facility. WILLIAM LINDSLEY, Francoise Blachere, Angela M. Weber, Donald Beezhold, Robert Thewlis, Kenneth R. Mead, John Noti, National Institute for Occupational Safety and Health

6IB.9 5:00	Exposure of Cynomolgus Macaques To Small Particle Aerosols Containing H5N1 Avian Influenza Triggers Rapid, Lethal Acute Respiratory Distress Syndrome. DOUGLAS REED, Elizabeth Wonderlich, Katherine O' Malley, Jennifer Bowling, Amy Hartman, Jonathan Carney, Charles Scanga, Daniel Perez, Simon Barratt-Boyes, University of Pittsburgh
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6IM	INSTRUMENTATION IV: MASS SPECTROMETRY FERRARA THEATER Rachel O'Brien and Markus Mueller, chairs
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6IM.1 3:00	Detection of Polyaromatic Hydrocarbons, as Well as Positive and Negative Inorganic Ions from the Same, Individual Particle. Johannes Passig, Julian Schade, Robert Irsig, Sven Ehlert, Martin Sklorz, RALF ZIMMERMANN, Helmholtz Zentrum Munich and Rostock University
6IM.2 3:15	Performance of a New VOCUS-PTRTOF for Detecting Volatile-, Semi-Volatile and Low-Volatile Organic Compounds. PEKKA RANTALA, Matthieu Riva, Jordan Krechmer, Yanjun Zhang, Olga Garmash, Liine Heikkinen, Felipe Lopez-Hilfiker, Otso Peräkylä, Yonghong Wang, Mikael Ehn, University of Helsinki
6IM.3 3:30	Factors Affecting the Detection of Fine Particles by Secondary Nanoelectropray Ionization High Resolution Mass Spectrometry. Dandan Jin, Anthony S. Wexler, Jiafa Zeng, Man Nin Chan, Zhen Zhou, Yong Jie Li, XUE LI, Jinan University
6IM.4 3:45	Mechanistic Insights into the Ionization of Airborne Nanoparticles via Droplet Assisted Ionization (DAI). DEVAN E. KEREKMAN, Michael J. Apsokardu, Murray Johnston, University of Delaware
6IM.5 4:00	Utilizing Bromide Chemical Ionization Technique in Detecting Oxidized Organic Compounds. Xucheng He, YEE JUN THAM, Siddharth Iyer, Mikko Sipilä, Matti Rissanen, University of Helsinki
6IM.6 4:15	Chemical Composition of Atmospheric Ion Clusters Measured with the New ioniAPI-TOF. Markus Leiminger, Paul Mutschlechner, Daniel Gansch, Arttu Ylisirniö, Stefan Feil, Alfons Jordan, Siegfried Schobesberger, Armin Hansel, GERHARD STEINER, University of Innsbruck
6IM.7 4:30	Aerosol Chemistry Investigations by CHARON-PTR-ToF-MS. MARKUS MUELLER, Joris Leglise, Tobias Otto, Todd Rogers, Armin Wisthaler, IONICON Analytik GmbH., Innsbruck, Austria

6IM.8 4:45	Improvement in the Mass Resolution of Single Particle Mass Spectrometry Using Delayed Ion Extraction. LEI LI, Ying Chen, Li Xu, Xubing Du, Mei Li, Xue Li, Wei Gao, Zhengxu Huang, Ping Cheng, Jinan University
6IM.9 5:00	An Overview on Evaluation of the New Capture Vaporizer for Aerosol Mass Spectrometers (AMS). WEIWEI HU, Pedro Campuzano-Jost, Douglas Day, Benjamin A. Nault, Taehyun Park, Taehyoung Lee, Aki Pajunoja, Annele Virtanen, Philip Croteau, Manjula Canagaratna, John Jayne, Douglas Worsnop, Jose-Luis Jimenez, CIRES, University of Colorado, Boulder

6MS	MATERIALS SYNTHESIS V ROOM 263 Adam Boies and Alfred Weber, chairs
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6MS.1 3:00	Facile Synthesis of Magnetic Metal-Organic Framework Nanocomposites by Spray-Assisted Synthesis. MASARU KUBO, Manabu Shimada, Hiroshima University
6MS.2 3:15	Synthesis and Assembly of Three-Dimensional MoS₂/rGO Nanovesicles for High-Performance Lithium Storage. HAO JIANG, East China University of Science and Technology
6MS.3 3:30	Growth of Sub-5 nm Metal Nanoclusters in Polymer Melt Aerosol Droplets. Yong Yang, Pankaj Ghildiyal, MICHAEL ZACHARIAH, University of Maryland, College Park
6MS.4 3:45	Single Step Synthesis of N/Ti₃⁺ Co-Doped TiO₂ Photocatalyst in a Flowing Microdroplet. LIANG-YI LIN, Shalinee Kavadiya, Yao Nie, Bedia Begum Karakocak, Pratim Biswas, Washington University in St. Louis
6MS.5 4:00	Aerosol-assisted Synthesis of a Stable Perovskite Absorber Layer for Application in Photovoltaics. SHALINEE KAVADIYA, Joseph Strzalka, Robin Wheelus, Pratim Biswas, Washington University in St. Louis
6MS.6 4:15	Exploring the Impacts of Drying Dynamics on Final Particle/Granule Morphology Using a New Droplet Chain Instrument. JIM WALKER, Rachael E.H. Miles, Jonathan P. Reid, University of Bristol
6MS.7 4:30	Synthesis of Nanoscale Composite of Inorganic Elements And Aerosol Based Delivery for Improving Plant Nutrition. RAMESH RALIYA, Pratim Biswas, Washington University in St. Louis

6MS.8 4:45	Polymer Coating of Inorganic Semiconductor Nanoparticles by Aerosol Approach. Masoom Shaban, Jalal Poostforooshan, ALFRED P. WEBER, TU Clausthal
6MS.9 5:00	High Throughput Synthesis of Aerosolized Poly(3,4-ethylenedioxythiophene) (PEDOT) Nanoparticles for Water Dispersible Colloids. Lu Yang, Clayton Kacica, Shinjita Acharya, Yifan Diao, Luciano Santino, Hongmin Wang, Pratim Biswas, JULIO D'ARCY, Washington University in St. Louis

6TT	AEROSOL TRANSPORT AND TRANSFORMATION I ROOM 267 Laura Fierce and Georges Saliba, chairs
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6TT.1 3:00	Machine Learning to Predict the Global Distribution of Aerosol Mixing State Metrics. Michael Hughes, Jack Kodros, Jeffrey R. Pierce, Matthew West, NICOLE RIEMER, University of Illinois at Urbana-Champaign
6TT.2 3:15	Simulation of Heterogeneous Oxidation of SO₂ and NO_x in the Presence of Gobi Desert Dust Particles under Urban Environments. ZECHEN YU, Myoseon Jang, University of Florida
6TT.3 3:30	Photochemical Model Estimated Fire Impacts on Aerosol Evaluated with Field Studies and Routine Data Sources. KIRK BAKER, United States Environmental Protection Agency
6TT.4 3:45	Effects of Near-Source Coagulation of Biomass Burning Aerosols on Global Predictions of Aerosol Size Distributions and Implications for Aerosol Radiative Effects. EMILY RAMNARINE, Jack Kodros, Jeffrey R. Pierce, Colorado State University
6TT.5 4:00	Air Quality Impact of Distributed Combined Heat and Power Facilities. BO YANG, K. Max Zhang, Cornell University
6TT.6 4:15	The Mixing State of Aerosol Particles in Asian Outflow Observed in the Spring of 2017. CUIZHI SUN, Kouji Adachi, Kentaro Misawa, Joe Hing Cho Cheung, Charles C.K. Chou, Nobuyuki Takegawa, Tokyo Metropolitan University
6TT.7 4:30	Between Two Oceans: Auckland's Urban Aerosol. GUY COULSON, Gustavo Olivares, Sally Gray, Oliver Wilson, National Inst of Water & Atmospheric Research, New Zealand
6TT.8 4:45	The Effect of Vegetation on the Deposition and Dispersion of Ultrafine Particles Carrying Different Charges. MING-YENG LIN, Gabriel Katul, Andrey Khlystov, Chia-Ren Chu, National Cheng Kung University

6TT.9 5:00	<p>Improved Estimation of Organic Aerosol Volatility Distributions by Combining Thermodenuder and Isothermal Dilution Measurements.</p> <p>KERRIGAN CAIN, Eleni Karnezi, Spyros Pandis, Carnegie Mellon University</p>
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TUESDAY | 5:15 PM - 6:15 PM

Working Group Meetings 2

TUESDAY | 6:15 PM - 8:30 PM

Session 7: Poster

7AC	AEROSOL CHEMISTRY VII: POSTERS EXHIBIT HALL 5 Andrew Ault and Tran Nguyen, chairs
7AC.1 6:15	<p>Hygroscopicity Dependent Upon Reaction Between Components in Internally Mixed Sodium Pyruvate and Ammonium Sulfate Aerosols.</p> <p>Hui Yang, PANG SHUFENG, Yunhong Zhang, Beijing Institute of Technology</p>
7AC.2 6:15	<p>Resolving the Factors Governing Particle Phase Photochemistry.</p> <p>BRYAN R. BZDEK, Lara Lalemi, University of Bristol</p>
7AC.3 6:15	<p>1-Octanol Water Partition Coefficient as a Predictor of Liquid-Liquid Phase Separation in Mixed Organic/Inorganic Particles.</p> <p>LIUDONGQING YANG, Mikinori Kuwata, Nanyang Technological University</p>
7AC.4 6:15	<p>The Role of Solvent Environment on the Production of Imidazoles in Secondary Organic Aerosol Mimicking Solutions Containing Glyoxal and Ammonium Sulfate.</p> <p>ANDREW BERKE, Tara Bhat, Emma Gubbins, Hunter Myers, Amanda Nwankwo, Smith College</p>
7AC.5 6:15	<p>Investigating the Link between Molecular Mass, Volatility, and Optical Properties of Light-absorbing Organic Aerosols.</p> <p>KHAIRALLAH ATWI, Zezhen Cheng, Rawad Saleh, University of Georgia</p>
7AC.6 6:15	<p>Observations of Sulfate Aerosol Condensation in Flue Plumes from Coal-Fired Power Plants Equipped with WFGD.</p> <p>JIANMIN CHEN, Xiang Ding, Di Wu, Xianmang Xu, Qing Li, Fudan University</p>

7AC.7 6:15	<p>Daytime and Night-time Atmospheric Aging of Emissions from Combustion Related Sources by Electrospray Ionization Time-of-Flight Mass Spectrometry (EESI-TOF) in a Smog Chamber.</p> <p>AMELIE BERTRAND, Bin Yuan, Giulia Stefanelli, Yandong Tong, Lu Qi, Liwei Wang, Felipe Lopez-Hilfiker, Sepideh Esmaeilirad, Urs Baltensperger, Imad El Haddad, Jay G. Slowik, Andre S.H. Prévôt, Paul Scherrer Institute</p>
7AC.8 6:15	<p>Understanding the Selective Transfer of Carbohydrates from the Ocean to Sea Spray Aerosol.</p> <p>ELIAS HASENECZ, Hansol Lee, Alexei Tivanski, Elizabeth Stone, University of Iowa</p>
7AC.9 6:15	<p>Environmental Factors Affecting Humic-like Substance Production in Photoreactions of Polycyclic Aromatic Hydrocarbons.</p> <p>JOHN HAYNES, Keith Miller, Brian Majestic, University of Denver</p>
7AC.10 6:15	<p>Effects of Criegee Intermediate Scavenger on Secondary Organic Aerosol Formation during α-pinene Ozonolysis.</p> <p>KEI SATO, Shinichi Enami, Sathiyamurthi Ramasamy, Satoshi Inomata, Takashi Imamura, National Institute for Environmental Studies, Japan</p>
7AC.11 6:15	<p>The Predicted Impact of Organic Coatings on Isoprene-Derived Secondary Organic Aerosol Formation.</p> <p>WILLIAM VIZUETE, Mutian Ma, Yue Zhang, Sri Hapsari Budisulistiorini, Havala Pye, Jason Surratt, Yuzhi Chen, Ryan Schmedding, Sarah Farrell, University of North Carolina at Chapel Hill</p>
7AC.12 6:15	<p>Impact of Ammonium Nitrate Aerosol Formation on Ozone Production in Urban and Rural New York State.</p> <p>MATTHEW NINNEMAN, Sarah Lu, Pius Lee, Jeffery McQueen, James Schwab, University at Albany, SUNY</p>
7AC.13 6:15	<p>Mixing State of Oxalic Acid Containing Particles in the Rural Area of Pearl River Delta, China.</p> <p>CHUNLEI CHENG, Mei Li, Chak K. Chan, Haijie Tong, Zhen Zhou, Jinan University</p>
7AC.14 6:15	<p>Fast Heterogeneous N₂O₅ Uptake and ClNO₂ Production in Summer in Urban Beijing, China.</p> <p>WEI ZHOU, Jian Zhao, Bin Ouyang, Asan Bacak, Conghui Xie, Qingqing Wang, Junfeng Wang, Yuying Wang, Wei Du, Weiqi Xu, Archit Mehra, Stephen Worrall, Xinlei Ge, Penglin Ye, James Lee, Hugh Coe, Roderic Jones, Pingqing Fu, Zifa Wang, Douglas Worsnop, Yele Sun, Institute of Atmospheric Physics</p>

7AC.15 6:15	Multivariate Statistical Analysis Methods as a Tool to Study Complex Mass Spectrometry Data Sets. SINI ISOKÄÄNTÄ, Eetu Kari, Angela Buchholz, Annele Virtanen, Santtu Mikkonen, University of Eastern Finland
7AC.16 6:15	Molecular Diffusion Limitations Coupled with Aerosol Aging Initiated by Iron Citrate Photochemistry. PABLO CORRAL ARROYO, Peter Aaron Alpert, Jing Dou, Beiping Luo, Ulrich Krieger, Markus Ammann, Paul Scherrer Institut
7AC.17 6:15	A Combination of a Cavity Ring Down Spectrometer and an Electrodynamic Quadrupole to Retrieve Physical and Optical Constants from Single Trapped Particles. ANTONIO VALENZUELA, Jonathan P. Reid, Allen E. Haddrell, Bryan R. Bzdek, Rose Willoughby, Andrew J. Orr-Ewing, University of Bristol
7AC.18 6:15	Radiative Absorption by Light Absorbing Carbon: Uncertainty, Seasonal and Spatial Variation in a Typical Polluted City in Yangtze River Delta. DONG CHEN, Yu Zhao, Ritao Lyu, Jie Zhang, Nanjing University
7AC.19 6:15	Chemical Composition Changes during Secondary Organic Aerosol Particle Evaporation. ANGELA BUCHHOLZ, Arttu Ylisirniö, Claudia Mohr, Celia Faiola, Eetu Kari, Andrew Lambe, Zijun Li, Aki Pajunoja, Sergey Nizkorodov, Siegfried Schobesberger, Douglas Worsnop, Taina Yli-Juuti, Annele Virtanen, University of Eastern Finland
7AC.20 6:15	PRAPPE: Influence of Iron on the Photoaging of Particulate Matter in the Environment. FRANK LERESCHE, Joseph Salazar, David Pfothhauer, Michael Hannigan, Brian Majestic, Fernando Rosario-Ortiz, University of Colorado, Boulder
7AC.21 6:15	The Size Resolved CCN Activity and Its Prediction Based on Aerosol Hygroscopicity and Composition in the Pearl Delta River (PRD, China) Region during Wintertime. Mingfu Cai, Haobo Tan, Chak K. Chan, Misha Schurman, Hanbing Xu, Fei Li, Yiming Qin, Li Liu, JUN ZHAO, Sun Yat-sen University
7AC.22 6:15	The Condensed-phase Ozonolysis of an Unsaturated Triglyceride: Reaction Kinetics and Products. ZILIN ZHOU, Shouming Zhou, Jonathan Abbatt, University of Toronto, Canada

7AC.23 6:15	Characterization of Aerosol Composition, Aerosol Acidity and Organic Acid Partitioning at an Agriculture-intensive Rural Southeastern U.S. Site. Theodora Nah, Hongyu Guo, Amy P. Sullivan, Yunle Chen, David Tanner, Athanasios Nenes, Armistead G Russell, Nga Lee Ng, Greg Huey, RODNEY J. WEBER, Georgia Institute of Technology
7AC.24 6:15	N2O5 Reactive Uptake and Chlorine Activation during Nocturnal Processing of Authentic Biomass Burning Aerosol. LYDIA JAHL, Lexie Goldberger, Joel A. Thornton, Ryan Sullivan, Carnegie Mellon University
7AC.25 6:15	Characterizing Chemical Composition and Evolution of Brown Carbon Organic Aerosol from Primary and Photochemically-Aged Biomass Burning Emissions during 2016 FIREX Campaign. TIANQU CUI, Sophie Tomaz, Zhexi Zeng, Yuzhi Chen, Shiva Tarun, Kenneth Sexton, Shantanu Jathar, Jason Surratt, Barbara Turpin, University of North Carolina at Chapel Hill
7AC.26 6:15	In-situ Surface Tension Measurements of Hanging Droplet Aerosol Mimics under Photooxidative Conditions. Thomas Beier, JOSEPH WOO, Lafayette College
7AC.27 6:15	Assessment of the Influence of Cut-Off Shift Due to Particle Hygroscopic Growth on the Analysis of Its Chemical Composition. YING CHEN, Oliver Wild, Yu Wang, Liang Ran, Monique Teich, Johannes GröB, Lina Wang, Gerald Spindler, Hartmut Herrmann, Dominik van Pinxteren, Gordon McFiggans, Alfred Wiedensohler, Lancaster Uni. and TROPOS
7AC.28 6:15	Size-Resolved Physicochemical Properties of Organic Salt Nanoparticles. Sabrina Chee, Michael Lawler, Kelley Barsanti, Bryan Wong, JAMES SMITH, University of California, Irvine
7AC.29 6:15	Physical and Chemical Submicron Aerosols Properties and Their Link to Size-resolved Aerosol Hygroscopicity in Summer/Spring of Seoul, Korea. NAJIN KIM, Minsu Park, Seong Soo Yum, Hye Jung Shin, Jong Sung Park, Joon Young Ahn, Yonsei University
7AC.30 6:15	Aerosol Acidity Measurement Using Colorimetry Coupled with a UV-Visible Micro-spectrometer and Its Application to Measurements of Organosulfates in Ambient Air. SHIQI SUN, Myoseon Jang, University of Florida
7AC.31 6:15	Simultaneous Water Uptake and Size-resolved Bounce Measurement of Secondary Organic Aerosols. DEVOUN STEWART, David De Haan, Richard Gardner, University of San Diego

7AC.32 6:15	Temporal Variability of Fine Particle Liquid Water Content over a National Park in Central India. SAMRESH KUMAR, Ramya Sunder Raman, Indian Institute of Science Education and Research, Bhopal
7AC.33 6:15	Atmospheric Concentration of Polycyclic Aromatic Hydrocarbons (PAHs) and Nitro-PAHs, Their Temperature Dependence and Gas to Particle Partitioning at a Traffic site in Agra, India. PUNEET KUMAR VERMA, Dinesh Sah, Rangu Venkata Satish, Neeraj Rastogi, K. Maharaj Kumari, Anita Lakhani, Dayalbagh Educational Institute, Agra 282005, India
7AC.34 6:15	New Methods for the Study of the Effects of NO_x on SOA Formation. WEIHAN PENG, David R. Cocker III, University of California, Riverside
7AC.35 6:15	Volatility and Chemical Characterization of Secondary Organic Aerosols Formed from Aqueous-Phase Oxidation. SARAH SUDA PETTERS, Barbara Turpin, University of North Carolina at Chapel Hill
7AC.36 6:15	Comparing Organic Speciation of Biomass Burning Aerosol Produced in Laboratory Burns and Prescribed Fires in the Field. AUDREY DANG, Skyler Simon, Claire Fortenberry, Michael Walker, Christopher Oxford, Benjamin Sumlin, Jiayu Li, Jonathan Myers, Brent Williams, Washington University in St. Louis
7AC.37 6:15	Characterizing the Thermal Desorption Behavior of Hemiacetal and Acetal Oligomers. MEGAN CLAFLIN, Paul Ziemann, University of Colorado
7AC.38 6:15	Gas-particle Partitioning and Temperature: Competition Between Vapor Pressure Dependence and Phase-state. CHEN LE, Weihan Peng, Mary Kacarab, David R. Cocker III, University of California, Riverside
7AC.39 6:15	Exploration of Potentially Increasing SO₂ Oxidation in the Eastern United States. BRET SCHICHTEL, Anthony Prenni, Jenny Hand, Scott Copeland, Kristi Gebhart, John Vimont, William Malm, Jeffrey Collett, National Park Service
7AC.40 6:15	Aromatic Volatile and Intermediate Volatility Compound Oxidation with Hydroxyl and Nitrate Radicals: Night-time SOA Formation from Residential Solid Fuel Burning Emissions. SIMONE PIEBER, Urs Baltensperger, Amelie Bertrand, Joel Corbin, Josef Dommen, Rujin Huang, Felix Klein, Nicolas Marchand, Ugo Molteni, Haiyan Ni, Jay G. Slowik, Brice Temime-Roussel, Christoph Zuth, Andre S.H. Prévôt, Paul Scherrer Institute

7AC.41 6:15	Trends in Organic Aerosol Mass and Functional Group Composition in the SouthEastern Aerosol Research and Characterization (SEARCH) Network from 2008 to 2016. ANN DILLNER, Alexandra Boris, Andrew Weakley, Bruno Debus, Eric Edgerton, Stephanie L. Shaw, Satoshi Takahama, University of California, Davis
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7AE	AEROSOL EXPOSURE III: POSTERS EXHIBIT HALL 5 Jun Wang, chair
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7AE.1 6:15	Investigation of Ground Level Aerosol (PM_{2.5}) with Different Mode of Transports in Dhaka, Bangladesh. AHMAD MAJUMDER, M.D. Hossain, Abdullah Nayeem, Stamford University Bangladesh
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7AE.2 6:15	Health and Economic Effects of Wildfire in US. KAIYU CHEN, Hao Guo, Hongliang Zhang, Louisiana State University
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7AE.3 6:15	Quantifying the Impact of Wildfires on Air Quality and Human Health: the Case of Equatorial Asia. PAOLA CRIPPA, Stefano Castruccio, Mohd Talib Latif, M.S.M. Nadzir, D. Dominick, Mikinori Kuwata, Abhinav Thota, M.I. Mead, Christine Wiedinmyer, University of Notre Dame
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7AE.4 6:15	Spatially-Resolved Comparison of Traffic and Cooking-Related PM₁ Emission in Urban Area and Their Threat to Public Health. Peishi Gu, Zhongju Li, Qing Ye, Ellis Shipley Robinson, Joshua Apte, Allen Robinson, ALBERT PRESTO, Carnegie Mellon University
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7AE.5 6:15	Efficiency of Anti-Pollution Masks in Three Microenvironments. BORIS GALVIS, Camila Figueredo, Fabian Moreno, Jorge Pachon, Universidad de La Salle
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7AE.6 6:15	Air Quality with Particulate Matter Assessment in Road Tunnels in China and Pakistan. ZONA ZAIDI, Zulfiqar Ali, Romaisa Qureshi, Irfan Zainab, Syed Turab Raza, Zaheer Ahmad Nasir, Ian Colbeck, Liu Weilong, University of the Punjab, Lahore, 54590, Pakistan
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7AE.8 6:15	Emission of Particulate Matter, VOCs and PAHs from Different Asphalt Mixes. MENG XIU, Xianyu Wang, Jochen Mueller, Andrew Beecroft, Lidia Morawska, Phong Thai, Queensland University of Technology
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7AE.9 6:15	Assessment of Exposure to Bioaerosols and Heavy Metals in a Material Recovery Facility in Central Taiwan. HUI-MING LIU, Hungkuang University
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7AE.10 6:15	Exposure to Fine Particulate Matter and Black Carbon during Cycling: A Comparison between London and São Paulo. VERONIKA SASSEN BRAND, Prashant Kumar, Maria de Fatima Andrade, University of Sao Paulo
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7AM	AEROSOL MODELING V: POSTERS EXHIBIT HALL 5 Kelvin Bates and Mingliang Xie, chairs
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7AM.1 6:15	Atmospheric Relevance of Laboratory Experiments on Ion Composition Based on Ion Composition Simulation. KALJU TAMME, Aare Luts, Urmas Hõrrak, Jaan Salm, Heikki Junninen, University of Tartu
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7AM.2 6:15	Comparison of Different Aerosol Dynamics Models Based on Accuracy and Computational Time. GIRISH SHARMA, Sukrant Dhawan, Zhichao Li, David I. A. Dhanraj, Pratim Biswas, Washington University in St Louis
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7AM.3 6:15	Modeling On-road Fine and Ultrafine Particle Concentrations in Los Angeles. Nu Yu, Shi Shu, Lu Zhang, Yan Lin, Jun Wu, YIFANG ZHU, UCLA
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7AM.4 6:15	Overprediction of Fine Aerosol Nitrate by Chemical Transport Models: The Role of Nighttime Chemistry and Mixing. Maria Zakoura, SPYROS PANDIS, University of Patras
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7AM.5 6:15	The Effects of Black Carbon Mitigation on the Arctic Climate. Tuuli Miinalainen, Thomas Kühn, Harri Kokkola, KARI LEHTINEN, University of Eastern Finland
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7AM.6 6:15	Regional Climate and Air Quality Impacts of Particulate Emissions from Gasoline Direct-Injection (GDI) Vehicles. SOROUSH ESMAEILI NEYESTANI, Rawad Saleh, University of Georgia
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7AM.8 6:15	Diffusion Limitations and Shielding Effects in the Ozonolysis of Polycyclic Aromatic Hydrocarbons Embedded in Secondary Organic Aerosols. BRIAN HWANG, Shouming Zhou, Pascale Lakey, Jonathan Abbatt, Manabu Shiraiwa, University of California, Irvine
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7AM.9 6:15	Addition of Charge Model to Coupled Flow-Aerosol Dynamics for Glowing Wire Conditions. KUNAL GHOSH, S.N. Tripathi, Manish Joshi, Y.S. Mayya, Arshad Khan, B.K. Sapra, IIT Kanpur
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7AM.10 6:15	Aerosol Nucleation Activated by Inducing Factors in Coal-Fired Flue Gas: A Simulation Study. CHENGSI LIANG, Chenghang Zheng, Zhengda Yang, Yi Wang, Weiguo Weng, Xiang Gao, Zhejiang University, China
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7AM.11 6:15	A Finite-Element Method (FEM) Study on the Deposition of Non-spherical Graphite Particles in High Temperature Gas-cooled Reactor (HGTR). ZHU FANG, Yiyang Zhang, Mingzhe Wei, Xinxin Wu, Tsinghua University
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7AM.12 6:15	Estimation of Loss Rates from Chamber Experiment Data Using a Statistical Inverse Approach. MATTHEW OZON, Aku Seppänen, Ari Leskinen, Jari Kaipio, Kari Lehtinen, University of Eastern Finland
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7AM.13 6:15	The Effect of Fiber Polydispersity on Filtration Modeling. SEUNGKOO KANG, Da-Ren Chen, David Y. H. Pui, University of Minnesota
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7AM.14 6:15	Sensitivity of Sulfate In-cloud Chemistry and CCN Activation to pH Variability and Mixing State Using a Particle Resolved Model. YU YAO, Nicole Riemer, Matt Dawson, University of Illinois at Urbana-Champaign
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7AM.15 6:15	Quantifying Errors in CCN Concentration and Aerosol Optical Properties Caused by a Non-Interactive Coarse Mode Using a Particle-Resolved Aerosol Model. JESSICA GASPARIK, Nicole Riemer, Jeffrey H. Curtis, University of Illinois at Urbana-Champaign
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7AM.16 6:15	Soil NOx Emissions and Particulate Nitrate Formation in California. Abhishek Dhiman, Anikender Kumar, Maya Almaraz, Ian Faloona, Benjamin Houlton, MICHAEL KLEEMAN, University of California, Davis
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7AM.17 6:15	Characterization of an Ultra-low Flow-rate Hydrocyclone. HYUNWOO LEE, Youngjin Seo, Kumoh national institute of technology
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7AM.18 6:15	Modeling the Dynamics of Fractal-Like Soot Aggregates Using the Specialized Aerosol Solver. VICTOR GRYAZIN, Sergey Beresnev, Ural Federal University, Ekaterinburg, Russia
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7AM.19 6:15	Regional-scale Impacts of Primary Ultrafine Particle Emissions in the United States. BENJAMIN MURPHY, Francis Binkowski, Ekborderin Winijkul, Matthew Alvarado, United States Environmental Protection Agency
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7AM.20 6:15	<p>Developing the SAPRC Gas-Phase Chemical Mechanism and Chamber-Based SOA Parameterizations for Evaluating Biomass-Burning Derived SOA from Furan and Furan Derivatives.</p> <p>JIA JIANG, William P. L. Carter, David R. Cocker III, Lindsay Hatch, Kelley Barsanti, University of California, Riverside</p>
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7AP	<p>AEROSOL PHYSICS IV: POSTERS EXHIBIT HALL 5 Nishit Shetty and Justin Maughan, chairs</p>
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7AP.21 6:15	<p>Evaluation and Comparison of Aerosol Properties at Two Background Sites in the Central Amazon Rainforest.</p> <p>MARCO AURÉLIO FRANCO, Luciana Rizzo, Paulo Artaxo, University of São Paulo</p>
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7AP.22 6:15	<p>Mass Accommodation and the Condensation Rate for Nanoclusters.</p> <p>Huan Yang, Eirini Goudeli, CHRISTOPHER HOGAN JR., University of Minnesota</p>
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7AP.23 6:15	<p>Exploring the Room Temperature Sensing Mechanism of SnO₂ Nano-Columns Synthesized by Aerosol Routes towards Volatile Organic Compounds: Theoretical Calculations Compared to Experimental Results.</p> <p>AHMED A. ABOKIFA, Kelsey Haddad, John Fortner, Pratim Biswas, Washington University in St Louis</p>
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7AP.24 6:15	<p>Nucleation and Growth of Iodic Particles in the CERN CLOUD Experiment.</p> <p>XUCHENG HE, Lubna Dada, Siddharth Iyer, Hanna Manninen, Yee Jun Tham, Joao Almeida, Dexian Chen, Dominik Stolzenburg, Changhyuk Kim, Arttu Ylisirniö, Maija Peltola, Theodore Koenig, Henning Finkenzeller, Mario Simon, Andrea Baccarini, Richard Flagan, Neil Donahue, Siegfried Schobesberger, Katrianne Lehtipalo, Rainer Volkamer, Douglas Worsnop, Matti Rissanen, Markku Kulmala, Jasper Kirkby, Mikko Sipilä, University of Helsinki</p>
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7AP.26 6:15	<p>Simulations of Light Scattering from Aligned and Randomly Oriented Polydisperse Aggregates for Determining Aggregate Shape.</p> <p>GEORGE MULHOLLAND, James Corson, Michael Zachariah, University of Maryland</p>
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7AP.27 6:15	<p>Spreading Ratios for Aqueous to Glassy Aerosol Particles Using Atomic Force Microscopy (AFM).</p> <p>ZIYING LEI, Nicole Olson, Rebecca Craig, Andrew Ault, University of Michigan</p>
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7AP.28 6:15	<p>Characterizing Mass-resolved Mixing State of Black Carbon in Beijing Using Morphology-Independent Measurement Method.</p> <p>CHENJIE YU, Dantong Liu, Kurtis Broda, Rutambhara Joshi, Jason S. Olfert, Hugh Coe, James Allan, University of Manchester</p>
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7AP.29 6:15	<p>New Insight Into Arctic Atmospheric Aerosol Formation.</p> <p>LISA BECK, Clemence Rose, Ella-Maria Duplissy, Matthieu Riva, Federico Bianchi, Olga Garmash, Heikki Junninen, Clara Hoppe, Alexander Schulz, Viola Angelo, Vitto Vitale, Mauro Mazzola, David Cappelletti, Markku Kulmala, Veli-Matti Kerminen, Mikko Sipilä, University of Helsinki</p>
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7AP.30 6:15	<p>Contrasting Physical Properties of Black Carbon in Urban Beijing between Winter and Summer.</p> <p>DANTONG LIU, Rutambhara Joshi, Chenjie Yu, James Allan, Hugh Coe, Michael Flynn, Junfeng Wang, Xinlei Ge, Yele Sun, Pingqing Fu, University of Manchester</p>
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7AP.31 6:15	<p>Theory for the Glory. Extensions of the Surface Wave Mechanism.</p> <p>CHEYNE WEIS, Christopher Sorensen, Kansas State University</p>
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7AP.32 6:15	<p>Molecular Content of the Critical Clusters of Lower n-Alkanes: Experimental Characterization Using Mass Spectrometric Detection and Small Angle X-ray Scattering.</p> <p>KEHINDE OGUNRONBI, Martina Lippe, Ruth Signorell, Barbara Wyslouzil, The Ohio State University</p>
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7AP.33 6:15	<p>Errors in Nanoparticle Growth Rates Inferred from Measurements in Chemically Reacting Aerosol Systems.</p> <p>CHENXI LI, Peter H. McMurry, University of Minnesota</p>
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7AP.34 6:15	<p>Fractal Scaling of Soot Packing density Across Five Size Decades.</p> <p>PAI LIU, William Heinson, Rajan K. Chakrabarty, Washington University in St. Louis</p>
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7AP.36 6:15	<p>Can Nanodroplets Shatter?</p> <p>YENSIL PARK, Kehinde Ogunronbi, Barbara Wyslouzil, The Ohio State University</p>
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7AP.37 6:15	<p>Hybrid Fractality and Formation Mechanism of Aerosol Gels.</p> <p>YULI W. HEINSON, William Heinson, Pai Liu, Rajan K. Chakrabarty, Washington University in Saint Louis</p>
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7AP.38 6:15	<p>Relationships between Scattering Directionality Parameters for Fractal Black Carbon Aerosols.</p> <p>APOORVA PANDEY, Rajan K. Chakrabarty, Washington University in St Louis</p>
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7AP.39 6:15	Urban Aerosol Size and Concentration: Characterization in a Light Industrial Area 2017/2018 Compared to 2005. TORSTEN TRITSCHER, Thomas Krinke, Axel Zerrath, Oliver F. Bischof, TSI GmbH
7AP.40 6:15	Glass Forming Properties of Secondary Organic Aerosol Tracers and Surrogates Examined by Thin Film Dielectric Relaxation Spectroscopy. YUE ZHANG, Shachi Katira, Jason Injae Jung, Peyton Spencer, Andrew Lee, Andrew Lambe, Wen Xu, Leonid Nichman, Manjula Canagaratna, Zhenfa Zhang, Avram Gold, John Jayne, Jason Surratt, Timothy Onasch, Douglas Worsnop, Paul Davidovits, David Chandler, Charles Kolb, University of North Carolina at Chapel Hill

7BA	BIOAEROSOLS I METHODS AND DETECTION: POSTERS EXHIBIT HALL 5 Ranjit Kumar and Alexandar Savatov, chairs
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7BA.1 6:15	Microbial Population Structure in Aerosols from Near-ground during Fog-haze Days in Northern China. YUNPING HAN, Mengzhu Zhang, Lin Li, Junxin Liu, Chinese Academy of Sciences
7BA.2 6:15	Systematic Characterization of the Wideband Integrated Bioaerosol Sensor (WIBS), Including Fluorescence Thresholding and Clustering Analysis Strategies. NICOLE SAVAGE, Christine Krentz, Tobias Könnemann, Taewon Han, Gediminas Mainelis, Christopher Pöhlker, J. Alex Huffman, University of Denver, now at Aerosol Devices
7BA.3 6:15	SenseNet Bioaerosol Collector Development. DAVID ALBURTY, Zachary Pakingham, Andrew Page, Steven Graham, Ann Pakingham, InnovaPrep LLC
7BA.4 6:15	Optical Trapping-Raman Spectroscopy (OT-RS) for Concurrent Characterization and Monitoring of Physical and Chemical Properties of Single Airborne Particles. ZHIYONG GONG, Yong-Le Pan, Gorden Videen, Chuji Wang, Mississippi State University
7BA.5 6:15	A Newly Developed, Inexpensive Single-Particle Fluorescence Spectrometer: Characterization and Application to Pollen Analysis. BENJAMIN E. SWANSON, Rezgui Samir, J. Alex Huffman, University of Denver, CO
7BA.6 6:15	Two-Step Laser Desorption/Ionization Mass Spectrometry of Individual Microorganisms by Single Particle Aerosol Mass Spectrometry (SPAMS). DAVID FERGENSON, Sean Kinahan, Joshua Santarpia, Livermore Instruments Inc.

7BA.7 6:15	Pathogenic Bioaerosol Detection in Under 30 Minutes. Robert Ferguson, Corinne Whitby, Dumbrell Alex, IAN COLBECK, University of Essex, Colchester, CO4 3SQ, UK
7BA.8 6:15	Liquid Air Sampler Bias on Bacterial Biodiversity. JOANIE LEMIEUX, Marc Veillette, Nathalie Turgeon, Caroline Duchaine, CRIUCPQ, Université Laval
7BA.10 6:15	Improvement of Cell Extraction from Filters after Bioaerosol Sampling. INKEN SCHULZE-HESSING, Dierk Pöther, Udo Jäckel, Federal Institute for Occupational Safety and Health
7BA.11 6:15	Development and Optimization of the Electrostatic Precipitator with Superhydrophobic Surface (EPSS) Mark III for Collection of Bioaerosols. TAEWON HAN, Nirmala Thomas, Gediminas Mainelis, Rutgers, The State University of New Jersey
7BA.12 6:15	Development of Wet-cyclone System for Highly Enriched, Continuous and Automated Bioaerosol Sampling in Real Time. YUSUNG CHO, Seung Chan Hong, Ki Joon Heo, Jae Hee Jung, Korea Institute of Science and Technology
7BA.13 6:15	Droplet Microfluidics Based Detector for Bioaerosols. BRIAN DAMIT, Johns Hopkins University Applied Physics Laboratory
7BA.14 6:15	Continuous Bioaerosol Sampling Using the Super-hydrophilic Silica Coated Wet-cyclone System. YUSUNG CHO, Ki Joon Heo, Byoung Uk Lee, Jae Hee Jung, Korea Institute of Science and Technology
7BA.15 6:15	Carbon Stable Isotope Probing Demonstrates Growth of Airborne Methanotrophs. VALDIS KRUMINS, Kevin Dillon, Donna Fennell, Rutgers, The State University of New Jersey
7BA.16 6:15	Comparative Assessment of Conventional, Fluorometric and Molecular Biomarkers of Airborne Microbial Activity during Condensation Capture and Direct Filtration. MARINA NIETO-CABALLERO, Patricia Keady, Nicole Savage, Mark T. Hernandez, University of Colorado Boulder
7BA.17 6:15	Development of an Immunoassay for Detection of the Nitrated Form of Allergenic Ragweed Protein (nAmb a 1). COURTNEY SEFFENSE, J. Alex Huffman, University of Denver, CO
7BA.18 6:15	Improved Threat Characterization using Next Generation Sequencing. ZAHRA CHAUDHRY, Peter Thielen, Kathleen Verrati, Christopher Bradburne, JHU APL

7BA.19 6:15	Effects of Temperature and Water Condensation on the Sampling of Infectious Influenza H1N1 Virus Aerosol through Water-based Condensational Growth. MAOHUA PAN, Leah Carol, Aneal Mamane, John Lednicky, Arantzazu Eiguren Fernandez, Susanne Hering, Hugh Fan, Chang Yu Wu, University of Florida
7BA.20 6:15	Efficiency of a Biotrickling Filter to Reduce Bioaerosol Emissions from Pig Buildings. JONATHAN M. VYSKOCIL, Valérie Létourneau, Matthieu Girard, Ariane Lévesque, Caroline Duchaine, Université Laval
7BA.21 6:15	Determining Distribution of Infectious Viruses in Aerosol Particles Using Water-Based Condensational Growth Technology. MAOHUA PAN, Leah Carol, John Lednicky, Arantzazu Eiguren Fernandez, Susanne Hering, Hugh Fan, Chang Yu Wu, University of Florida
7BA.22 6:15	A Further Investigation of Non-thermal Plasma Inactivation of Airborne Viruses Using a Newly Designed Coaxial Plasma Discharge. TIAN XIA, My Yang, Ian Marabella, Abby Kleinheksel, Eric Monsu Lee, Bernard Olson, Darrick Zarling, Montserrat Torremorell, Herek Clack, University of Michigan
7BA.23 6:15	The Problem of Different Air Disinfection Devices Efficiency Comparison. ALEXANDR SAFATOV, Vasilij Akimkin, Galina Buryak, Gennadii Shuvalov, State Research Center of Virology And Biotechnology VECTOR
7BA.24 6:15	Investigation of Oxidation Effect in Inactivation by an Electrostatic Precipitator with Humidifier. TAKUMI YAZAWA, Munehiro Shiraisi, Akinori Zukeran, Risei Wada, Jun Sawai, Kanagawa Institute of Technology
7BA.25 6:15	Performance of Silver, Zinc and Iron Nanoparticles Doped Cotton Filters against Airborne E. coli to Minimize Bio-aerosol Exposure. Attarad Ali, Maohua Pan, TREVOR TILLY, Muhammad Zia, Chang Yu Wu, Quaid-i-Azam University Pakistan, UF Gainesville USA
7BA.26 6:15	Development of a Novel Biomimetic Platform for Simulating Human Respiratory Infections. David Drewry, Brian Damit, FELIX SAGE, Julia Patrone, Johns Hopkins University Applied Physics Laboratory

7CB	COMBUSTION I: POSTERS EXHIBIT HALL 5 Naomi Zimmerman, chair
7CB.1 6:15	Chemical Characterization of Combustion Aerosols Related to Wood Combustion and Internal Combustion Engines. THORSTEN STREIBEL, Hendryk Czech, Jürgen Orasche, Toni Miersch, Martin Sklorz, Johannes Passig, Olli Sippula, Jorma Jokiniemi, Benjamin Stengel, Bert Buchholz, Ralf Zimmermann, University of Rostock and Helmholtz Zentrum Munich, Germany
7CB.2 6:15	Modeling Particle Emission Formation in Wildland Fires. ALEXANDER JOSEPHSON, Troy Holland, Rod Linn, Los Alamos National Laboratory
7CB.3 6:15	Water Sorption Phenomenon on Aerosols Emitted during a Fire: Determination of the influencing Physico-Chemical Parameters. LAURA LINTIS, Alexis Coppalle, François-Xavier Ouf, Cécile Vallières, Université de Lorraine/IRSN
7CB.4 6:15	Real World Emission Factors of Fine Aerosol and Carbonaceous Constituents from On-Road Transport in India. Jai Prakash, Dilip Ganguly, GAZALA HABIB, Indian Institute of Technology Delhi
7CB.5 6:15	Chemical Characterization of Biomass Burning Sources Using Targeted and Untargeted Approaches. CAMILLE NOBLET, François Lestremau, Jean-Luc Besombes, Olivier Favez, Serge Collet, Alexandre Albinet, INERIS
7CB.6 6:15	Waste Burning Tracers in Residential Wood Combustion Area in Estonia. HANNA LII KUPRI, Marek Maasikmets, Riin Rebane, Erik Teinemaa, Viktoria Voronova, Estonian Environmental Research Centre
7CB.7 6:15	Toxicological and Chemical Characteristics of Fine Particles from Burning of Crop Residues in China. KIN FAI HO, Jian Sun, Haiyan Ni, Jie Tian, Yongming Han, Junji Cao, Hsiao-Chi Chuang, The Chinese University of Hong Kong
7CB.8 6:15	Particulate Emissions from Residential Biomass Hydronic Heaters. Patricia Fritz, Brian P. Frank, NICOLE VITILLO, Marilyn Wurth, Jake Lindberg, Shida Tang, Dave Guerrieri, Thomas Wainman, Gil H. LaDuke, Todd Crawford, Nathan Walz, New York State Dept. of Health

7CB.9 6:15	In-field Emission Measurements of Common Incomplete Combustion Sources in Africa. DAVID PFOTENHAUER, Evan Coffey, Didier Muvandimwe, Christine Wiedinmyer, Rex Alirigia, Ricardo Piedrahita, Desmond Agao, Ernest Kanyomse, Abraham Oduro, Michael Hannigan, University of Colorado, Boulder
7CB.11 6:15	Chemical Characterization of Particles Emitted from Engine Operated by Natural Gas and Propane. SANNA SAARIKOSKI, Jenni Alanen, Hannu Vesala, Rasmus Pettinen, Mia Isotalo, Sampsa Martikainen, Matthew Bloss, Minna Aurela, Teuvo Maunula, Kauko Kallinen, Jan Torrkulla, Hilikka Timonen, Topi Rönkkö, Kati Lehtoranta, Finnish Meteorological Institute
7CB.12 6:15	Properties of Carbon Particles Generated by Methane Decarbonization in Oxygen Deficient Gas Streams. Mohammad Javad Afroughi, Farjad Falahati, Larry W. Kostiuk, JASON S. OLFERT, University of Alberta
7CB.13 6:15	A nvPM Formation and Oxidation Semi-Empirical Model for Gas Turbines in Commercial Aviation. Joseph Abrahamson, RANDY VANDER WAL, Penn State University
7CB.14 6:15	CAAFCEr: Particle Number Emission Factors from In-Flight Aircraft Fueled with Jet A1 and Biofuel Mixtures. STEVEN TRAN, Jason S. Olfert, Anthony Brown, Fred J. Ghatala, University of Alberta
7CB.15 6:15	PM2.5 and Its Carbon Components Emitted from a Diesel Engine Generator Fueled with Waste Cooking Oil-based Biodiesel Blends. Jen-Hsiung Tsai, SHUI-JEN CHEN, Chia-Chin Wu, Kuo-Lin Huang, Jia-Twu Lee, Wen-Yinn Lin, Chih-Chung Lin, National Pingtung University of Science and Technology
7CB.16 6:15	PM2.5-bound Metal Emission from a Diesel Engine Generator Fueled with Biodiesel Converted from Used Cooking Oil. Jen-Hsiung Tsai, SHUI-JEN CHEN, Chi-Ying Hsieh, Cheng-Hung Tsai, Wen-Yinn Lin, Kuo-Lin Huang, Chih-Chung Lin, National Pingtung University of Science and Technology
7CB.17 6:15	Origin of Soluble Iron from Low-emitting Automobile Exhaust. JOSEPH SALAZAR, Benton Cartledge, Lynn Russell, Allen Robinson, Greg Drozd, Allen H. Goldstein, Brian Majestic, University of Denver
7CB.18 6:15	On-Line Measurements of Selenium Emissions from an Operating Coal Fired Power Plant. Edward Fortner, Joseph Roscioli, Jordan Krechmer, Manjula Canagaratna, Scott Herndon, JOHN JAYNE, Aerodyne Research, Inc.

7CB.19 6:15	Collection Characteristic of Diesel Nano-Particles in an Electrostatic Precipitator: Experiment Using Residual Fuel Oil and Light Fuel Oil. HIDETOSHI SAWANO, Akinori Zukeran, Yasumoto Koji, Kanagawa Institute of Technology
7CB.20 6:15	Sizing Sub-10 nm Particles from Engine Emissions. JOONAS VANHANEN, Jenni Alanen, Kati Lehtoranta, Sanna Saarikoski, Minna Väkevä, Topi Rönkkö, Airmodus Ltd.

7CC	CLOUDS AND CLIMATE II: POSTERS EXHIBIT HALL 5 Gannet Hallar and Hamish Gordon, chairs
7CC.1 6:15	Hygroscopicity Measurements near Cloud Indicate Aerosol-Cloud Processing without Interrupting Ambient Measurements. STEPHEN NOBLE, James Hudson, Desert Research Institute
7CC.2 6:15	Con Characteristics Observed at a High Altitude Site in Western Ghats. ARSHITHA ANAND K.A., R.S. Mahes Kumar, Banaras Hindu University.
7CC.3 6:15	CCN Activity and Particle Growth of Aging Diesel Exhaust Particles. Humphrey Chukwuto, FRANK BOWMAN, University of North Dakota
7CC.4 6:15	Characteristics of Cloud Condensation Nuclei in an Urban Region of Central Taiwan. TA-CHIH HSIAO, Wei-Jen Hsieh, Neng-Huei Lin, Chun-Chiang Kuo, National Central University
7CC.5 6:15	Large Indirect Radiative Effects of Smoke in the South-east Atlantic. HAMISH GORDON, Paul Field, Ken Carslaw, University of Leeds
7CC.6 6:15	Cloud Effects on the Aitken and Accumulation Modes. JAMES HUDSON, Stephen Noble, Desert Research Institute
7CC.7 6:15	Cloud and Aerosol Optical Analysis for Temperate Zona. Ibtissam Marsli, MOHAMMED DIOURI, Djamaledine Chaabane, Atmospheric Physic, LME, University of Oujda, Morocco
7CC.8 6:15	Presence of Photosynthetic Microorganisms in Clouds. KEVIN DILLON, Pierre Amato, Martine Sancelme, Valdis Krumins, Anne Marie Delort, Donna Fennell, Rutgers, The State University of New Jersey

7CC.9 6:15	Hazardous Ice Cloud Avoidance Using Airborne LiDAR Remote Sensors. RICHARD STONE, Justin Fisher, Sigma Space Corporation
7CC.10 6:15	The Cloud Feedback on the Heating Rate of Black Carbon and Brown Carbon. FERRERO LUCA, Grisa Mocnik, Gregorič Asta, Cogliati Sergio, Colombo Roberto, Rizzi Cristiana, Di Liberto Luca, Barnaba Francesca, Gobbi Gian Paolo, Bolzacchini Ezio, GEMMA Centre, DISAT, University of Milano-Bicocca
7CC.11 6:15	Characterization of Phase Changes in Clouds Using Hyper-spectral LIF-LIDAR. OFIR SHOSHANIM, Adva Baratz, Israel Institute for Biological Research (IIBR)
7CC.12 6:15	Aerodynamic Aerosol Classifier Coupled Cloud Condensation Nuclei Counter for Droplet Activation Measurements. PATRICIA RAZAFINDRAMBININA, Akua Asa-Awuku, University of Maryland
7CC.13 6:15	Aerosol-Cloud Measurements during the NASA NAAMES Campaign: Summary of Data and Cloud Droplet Sensitivities. RICHARD MOORE, Ewan Crosbie, Luke Ziemba, Mary Kacarab, Athanasios Nenes, Gao Chen, Johnathan Hair, Chris Hostetler, Claire Robinson, Michael Shook, Kenneth Thornhill, Edward Winstead, Bruce Anderson, NASA
7CC.14 6:15	New Particle Formation Impacting Cloud Condensation Nuclei Concentration. ANNA GANNET HALLAR, Lauren Zuromski, Ian McCubbin, Douglas Lowenthal, University of Utah

7CD	AEROSOLS AND HEALTH - CONNECTING THE DOTS III: POSTERS EXHIBIT HALL 5 Otmar Schmid and Vishal Verma, chairs
7CD.1 6:15	Oxidative Potential of Ambient Aerosols: First Measurement over Santiago Metropolitan Area. Carolona Molina, Vishal Verma, Victor Vargas, LEIVA G. MANUEL A., Facultad de Ciencias, Universidad de Chile
7CD.2 6:15	Intranasal Airway Deposition of Dry Particles in Physical Models of Children and Adults during Inspiratory Flow Rates Representing Rest, Light, Moderate and Heavy Activity. Jana Kesavan, VALERIE J. ALSTADT, Jerold Bottiger, Keith Sedberry, Beth Laube, US ARMY ECBC
7CD.4 6:15	Investigating the Effects of Cookstove Emissions on Ocular and Cancer Cells. BEDIA KARAKOCAK, Sameer Patel, Nathan Ravi, Pratim Biswas, Washington University in St Louis

7CD.5 6:15	Reactive Oxygen Species of Ambient Water-soluble PM2.5 in the North and Northwestern China: Contrasts in Concentration and Sources. YAQING ZHOU, Rujin Huang, Junji Cao, Key Laboratory of Aerosol Chemistry and Physics, IEECAS
7CD.6 6:15	A New Risk Grouping Concept for High Aspect Ratio Materials - The Fibre Dustiness Test by Vibro-Fluidization. ELISABETH HEUNISCH, Dirk Broßell, Volker Bachmann, Nico Dziurawitz, Carmen Thim, Daniela Wenzlaff, John Schumann, Kerstin Kämpf, Asmus Meyer-Plath, Sabine Plitzko, Federal Institute for Occupational Safety and Health (BAuA)
7CD.7 6:15	A Semi-Automated System for Measuring the Reactive Oxygen Species (ROS) Catalyzed by Ambient Particulate Matter (PM) in a Dithiothreitol (DTT) Assay. HAORAN YU, Joseph Puthussery, Vishal Verma, University of Illinois Urbana-Champaign
7CD.8 6:15	Identification of Toxicity Parameters Associated with Combustion Produced PM2.5 Surface Chemistry and Particle Structure by in Vitro Assays. RANDY VANDER WAL, Madhu Singh, Patricia Silveyra, Joshua Muscat, The Pennsylvania State University
7CD.9 6:15	Near-Roadway Effects on the Progression of Alzheimer's Disease. KEITH BEIN, Christopher Wallis, Xiao-San Luo, Kelley Patten, Anthony Valenzuela, Elizabeth Berg, Jill Silverman, Pamela Lein, Anthony S. Wexler, University of California Davis
7CD.10 6:15	Evidence of Atmospheric Secondary Transformation of Transition Metals and Impact on Particle Oxidative Potential. ZHI NING, City University of Hong Kong
7CD.11 6:15	Generating Biodiesel and Fossil Diesel Exhaust Particles with Varied Physico-Chemical Properties for Toxicological Studies. LOUISE GREN, Vilhelm B. Malmberg, Pravesh C. Shukla, Sam Shamun, Christina Isaxon, Per Axel Clausen, Martin Tunér, Ulla Vogel, Joakim Pagels, Ergonomics and Aerosol Technology, Lund University, Sweden
7CD.12 6:15	Toxicity Testing in Human Airway Epithelial Cells for Particulate Emissions Resulting from Alternative Fuels. C.M. SABBIR AHMED, Jin Chen, Jiacheng Yang, Cody Cullen, Georgios Karavalakis, Ying-Hsuan Lin, University of California, Riverside

7CD.13 6:15	Reactive Oxygen Species Generation by Particle Size-dependent Transition Metal Ions using a Kinetic Multi-layer Model in the Epithelial Lining Fluid. TING FANG, Pascale Lakey, Rodney J. Weber, Manabu Shiraiwa, University of California, Irvine
7CD.14 6:15	Spatial and Seasonal Patterns in the Oxidative Burden of Ambient Particulate Matter in Urban Centres. ALISON TRAUB, Cheol H. Jeong, Cuilian Fang, Maryam Shekarrizfard, Ryan Kulka, Hongyu You, Marianne Hatzopoulou, Scott Weichenthal, Greg J. Evans, SOCAAR, University of Toronto
7CD.15 6:15	Non-additive Effects of the Mixture of Metals and Organic Compounds to Mammalian Cell Cytotoxicity of Particulate Matter (PM). YIXIANG WANG, Michael Plewa, Vishal Verma, University of Illinois at Urbana-Champaign
7CD.16 6:15	Toxicity Evaluation of Secondary Organic Aerosol on Human Lung Cells. PRATITI HOME CHOWDHURY, Tanya Lasitza Male, Quanfu He, Michal Pardo, Yinon Rudich, Weizmann Institute of Science
7CD.17 6:15	Simultaneous Measurements of Lung Deposited Surface Area, Particle Number Concentration, Particle Size, and Black Carbon Concentration to Characterize Near-roadway and Biomass Source Emissions. MARILYN WURTH, Brian P. Frank, Gil H. LaDuke, Oliver Rattigan, H. Dirk Felton, Jake Lindberg, Nicole Vitillo, Patricia Fritz, Thomas Wainman, New York State Dept. of Environmental Conservation
7CD.18 6:15	Oxidative Potential and Cellular Oxidant Production from Biomass Burning Aerosol. Wing-Yin Tuet, Nilmara de Oliveira Alves, Shierly Fok, Dong Gao, Paulo Artaxo, Perola Vasconcellos, Julie Champion, Rodney J. Weber, NGA LEE NG, Georgia Institute of Technology
7CD.19 6:15	ROS-Generating Capacity of Particulate Matter over two Cities in Eastern Mediterranean. DESPINA PARASKEVOPOULOU, Irini Tsiodra, Aikaterini Bougiatioti, Athanasios Nenes, Nikolaos Mihalopoulos, National Observatory of Athens
7CD.20 6:15	Surface Area Is the Biologically Most Relevant Dose Metric for Particle-Induced Inflammation in the Lung. OTMAR SCHMID, Kristina B. Knudsen, Sarah Søs Poulsen, Yaobo Ding, Rambabu Atluri, Kirsten Kling, Anne T Saber, Nicklas R. Jacobsen, Keld A. Jensen, Håkan Wallin, Tobias Stoeger, Ulla Vogel, Helmholtz Zentrum Munchen, Comprehensive Pneumology Center

7CD.21 6:15	Biofuels: Largest Global Lung-cancer Risk in the 21st Century. SIJIA LOU, ManishKumar Shrivastava, Alla Zelenyuk, Richard Easter, Philip Rasch, Jerome Fast, Staci L. Simonich, Huizhong Shen, Brian Thrall, Shu Tao, Pacific Northwest National Laboratory
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7CM	CONTROL AND MITIGATION VI: POSTERS EXHIBIT HALL 5 Parham Azimi and Parichehr Salimifard, chairs
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7CM.2 6:15	Effect of Dust Loading on Cleaning of Solar Panels by Electrodynamics. JOSHUA UDVARDY, Jennifer Chesnutt, Bing Guo, Chang Yu Wu, University of Florida
7CM.4 6:15	Collection Performance of Nanofiber/ Microfiber Mixed Air Filter Prepared by Wet Paper Processing. Youichi Omori, TIANYI GU, Li Bao, Yoshio Otani, Takafumi Seto, Kanazawa University
7CM.5 6:15	Development and Performance Evaluation of Venturi Scrubber for Dust & Gases at Vertical Shaft Limekiln Industry. PRASHIK MANWATKAR, Padma Rao, Anirban Middey, Ashish Patil, CSIR-NEERI
7CM.6 6:15	Control of Particles in the Pulsed Plasma Reactor for SO_x Removal. CHANG GYU WOO, Hak-Joon Kim, Yong-Jin Kim, Bangwoo Han, Korea Institute of Machinery and Materials
7CM.7 6:15	Numerical Investigations on the Effectiveness of Urban-scale SALSCS under Idealized Atmospheric Conditions by Using a Large-eddy Simulation Model. QINGFENG CAO, Lian Shen, Sheng-Chieh Chen, David Y. H. Pui, University of Minnesota
7CM.8 6:15	Mist Removal Performance of a Novel Electrostatic Mist Eliminator Combined with a Flue Gas Desulfurization Process in a Coal-fired Power Plant. Hak-Joon Kim, Kim Jin-Seon, Kim Myungjoon, Bangwoo Han, Chang Gyu Woo, YONG-JIN KIM, Lee Sangrin, Korea Institute of Machinery and Materials
7CM.9 6:15	Filtration Performance and Particle Loading Characteristics of Various Beaded Nanofiber Filter Media. SEONG KIM, H. Young Chung, David Y. H. Pui, University of Minnesota
7CM.10 6:15	Electrostatic Precipitation of Ultrafine Particles in the Corrosive Gas Condition with a Novel Ion Injection Type Charger. Hak-Joon Kim, YONG-JIN KIM, Bangwoo Han, Chang Gyu Woo, Jong-Pil Yoon, Korea Institute of Machinery and Materials

7ES		AEROSOLS IN EARTH SYSTEM I: POSTERS EXHIBIT HALL 5 Michael Giordano and Sagar Rathod, chairs
7ES.2 6:15	Air Pollution and Control: Past, Present and Future. SHUNXIANG HUANG, Institute of Chemical Defense	
7ES.3 6:15	Scattering and Absorption Properties of Aerosols in Amazonia Using Remote Sensing (AERONET) and in situ Measurements. FERNANDO MORAIS, Eduardo Landulfo, Paulo Artaxo, University of Sao Paulo	
7ES.4 6:15	An Analytical Approach To Estimate Aerosol Indirect Forcing. Sofiya Rao, SAGNIK DEY, IIT Delhi	
7ES.6 6:15	Aerosol Size Distributions over the Indo-Gangetic Plains Just Prior to the Onset of SW-Monsoon. MUKUNDA M GOGOI, Suresh Babu, S.K. Satheesh, Krishna K Moorthy, Vikram Sarabhai Space Centre	
7ES.8 6:15	Radiative Properties and Atmospheric Warming Due to Elevated Aerosols over the Indo-Gangetic Plains Prior to Onset of the South Asian Summer Monsoon. ADITYA VAISHYA, Suresh Babu, Krishna K Moorthy, S.K. Satheesh, Vikram Sarabhai Space Centre	
7ES.9 6:15	Mineralogically-Speciaded and Size-Resolved Global Combustion-Iron Emission Inventory. SAGAR RATHOD, Tami Bond, University of Illinois at Urbana Champaign	
7ES.10 6:15	Evaluation of Six Years of Aerosol Chemical Speciation Monitor Data from the ARM Southern Great Plains Site. THOMAS WATSON, Brookhaven National Laboratory	
7ES.11 6:15	Aerosol-Induced Changes to Cloud Radiative Forcing over Indian Subcontinent. ABIN THOMAS, Vijay Kanawade, Chandan Sarangi, S.N. Tripathi, Srilakshmi Sunkara, University of Hyderabad	
7ES.12 6:15	Investigation of Concentration Variability, Sources and Atmospheric Transformations of Short-lived Climate Pollutants (SLCPs) at the Rural-site of Indo-Gangetic Plain (IGP), India. Jai Prakash, Harsh Raj Mishra, Atul Kumar, Bhilok Chand, Mattias Hallquist, Gazala Habib, Geetam Tiwari, Jan B. C. Pettersson, Johan Boman, Håkan Pleijel, RAVI KANT PATHAK, University of Gothenburg, Sweden	

7ES.13 6:15	Hygroscopicity and Mixing State of Fine Aerosols in the South Eastern Mediterranean Sea and around the Arabian Peninsula during the AQABA Campaign. SPYRIDON BEZANTAKOS, Konstantinos Barmounis, Michael Pikridas, George Biskos, The Cyprus Institute, Nicosia, Cyprus
7ES.15 6:15	Correlations between PM2.5 Concentration and Local Meteorological Conditions with Focus on Statistical Models to Retrieve Long Term PM 2.5 Proxy Data: A Case Study in Chengdu, China. LEI LUO, Xinying Tang, Pengping Wu, Ling Wang, Institute of Plateau Meteorology, CMA, Chengdu
7ES.16 6:15	Elemental Carbon Observations over Canada (2006-2015): Constraining on Regional Emissions in North America. LIN HUANG, Tak Chan, Knut von Salzen, Richard Leitch, Sangeeta Sharma, Wendy Zhang, Darrell Ernst, Junhua Zhang, Michael Moran, Jeff Brook, Anne Marie Macdonald, Michael Wheeler, Environment & Climate Change Canada, ASTD, Toronto, Canada
7ES.17 6:15	Declining Dust over the Indian Sub-Continent: Signature of a Changing Regional Climate. Velu Vinoj, S.K. PANDEY, Kiranmayi Landu, Suresh Babu, IIT Bhubaneswar

7IA		INDOOR AEROSOLS V: POSTERS EXHIBIT HALL 5 Hongliang Zhang, chair
7IA.1 6:15	Diurnal Variation of Particle Mass Concentration at Underground Subway Tunnel near the Platform. Sang-Hee Woo, Jong Bum Kim, GWI-NAM BAE, Moon Se Hwang, Hwa Hyun Yoon, Korea Institute of Science and Technology, Seoul, Korea	
7IA.2 6:15	Generation Characteristics of Nanoparticles Emitted under Subway Cabin in Operation. YONGIL LEE, Kyomin Choi, Wonseog Jung, Taesung Kim, Duckshin Park, Korea Railroad Research Institute	
7IA.3 6:15	Indoor Black Carbon and Particle Number Concentrations at Two Intercity Bus Terminals in Taipei City. YU-HSIANG CHENG, An-Chi Li, Ming Chi University of Technology	
7IA.4 6:15	Assessment of Indoor Air Quality in a Beauty Salon. Estela Vicente, Carlos Blanco-Alegre, Fernanda Oduber, Ana Isabel Calvo, Amaya Castro, Roberto Fraile, Mário Cerqueira, Teresa Nunes, CÉLIA ALVES, University of Aveiro	

7IA.5 6:15	The Impact of Tobacco Heating System on the IAQ in a Night Club Environment. DAINIUS MARTUZEVICIUS, Marija Meišutovi - Akhtarieva, Tadas Prasauskas, Darius Ciuzas, Karolina Keraityt , Violeta Kaunelien, Kaunas University of Technology, Lithuania
7IA.8 6:15	The Experimental Study of Particle Resuspension from Different Substrates after Jet Impingement. HUADONG YANG, Shiguang Li, Xia Zhang, North China Electric Power University
7IA.9 6:15	A New Computer Model for the Simulation of Secondary Organic Aerosol Formation from Stir-frying Additives Using Aspen Plus. MEHDI AMOUEI TORKMAHALLEH, Fariza Aldemkhan, Chemical and Aerosol Research Team, Nazarbayev University
7IA.10 6:15	Atmospheric Particulate Matter: A Threat to the Health of Raffaello. PAOLA FERMO, Valeria Comite, Silvana De Iulius, Carlo Giglioni, Stefania Gilardoni, Davide Gulotta, Francesca Migliorini, Lucia Toniolo, University of Milan, Italy
7IA.11 6:15	Effect of a Two-Stage Type Electrostatic Precipitator on Collection Efficiency and Ozone Concentration. KOJI YASUMOTO, Hidetoshi Sawano, Kohei Ito, Akinori Zukeran, Kanagawa Institute of Technology
7IB	INFECTIOUS BIOAEROSOL II: POSTERS EXHIBIT HALL 5 Mara Otero-Fernandez and Jeremy Boydston, chairs
7IB.1 6:15	Potential for Long-Distance Atmospheric Transmission of Influenza Virus. LINSEY MARR, Pei-Shih Chen, Virginia Tech
7IB.3 6:15	Inactivation of Aerosolized Bacillus Anthracis Spores in the Vicinity of a Flame: Simulation Study. WORRAWIT NAKPAN, Michael Yermakov, Reshmi Indugula, Tiina Reponen, Sergey A. Grinshpun, University of Cincinnati
7IB.4 6:15	The Effect of Humidity on the Viability of Aerosolised Bacterial Agents. EMMA KEYSER, Carwyn Davies, DSTL
7IB.5 6:15	Development of an Inhalational Francisella Tularensis Exposure Therapeutic Model in New Zealand White Rabbits. ROY BARNEWALL, Chrs Cirimotich, Susan Reed, Kristin Patton, Heather Northup, Amber Lindsay, Phyllis Herr-Calomeni, Brian Miller, Gloria Sivko, Battelle, Columbus Ohio

7IB.7 6:15	Insights into the Phenotypic and Virulence Differences Observed in Two Lineages of Burkholderia pseudomallei 1026b. GREGORY WILLIAMS, Jeremy Boydston, John Yeager, David Dawson, Ryan Bartlett, Angelo Scorpio, Paul Dabisch, Ian Gut, NBACC
7IB.8 6:15	Influence of HVAC Operation on the Dissemination Pattern of Aerosolized Simulant Pathogen Particles in a Clinical Bio-Containment Unit. David Drewry, JENNIFER THERKORN, Thomas Pilholski, Gregory Bova, Kathryn Shaw-Saliba, Lauren Sauer, Brian Garibaldi, Johns Hopkins University Applied Physics Laboratory
7IB.9 6:15	Disease Progression in African Green Monkeys Exposed to Small Particle Aerosolized Nipah Virus. MATTHEW LACKEMEYER, Lucy Cong, Michael Holbrook, Kyle Bohannon, Peter Jahrling, NIAID
7IB.10 6:15	Host Transcriptomic Responses Predict Disease Severity in Nonhuman Primates Exposed to Small or Large Particle Aerosols Containing Burkholderia pseudomallei. JEREMY BOYDSTON, Adrian Caciula, Paul Dabisch, Xiaoyu Che, John Yeager, Jill Taylor, Gregory Williams, Ian Lipkin, Michael Hevey, Angela Rasmussen, BNBI / DHS NBACC
7IB.11 6:15	Evaluation of Ozone Efficiency to Reduce Airborne Virus Concentration in Ventilation Ducts. NATHALIE TURGEON, Jean-Gabriel Turgeon, Jonathan M. Vyskocil, Caroline Duchaine, CRIUCPQ, Université Laval
7IB.12 6:15	Preliminary Evaluation of Commercial Bioaerosol Sampling Equipment in the Collection of Viable Aerosols of Clostridium difficile. CASEY COOPER, Kathleen Aithinne, David L. Johnson, University of Oklahoma
7IB.13 6:15	Psychrotolerant Yeasts and Other Microorganisms Potentially Pathogenic for Human in Atmospheric Aerosols of Southwestern Siberia. ALEXANDR SAFATOV, Irina Andreeva, Galina Buryak, Elena Emelyanova, Vera Morozova, Nina Tikunova, Igor Babkin, State Research Center of Virology And Biotechnology VECTOR
7IB.14 6:15	Identification of Toxic Mold Genes in Aerosolized Stachybotrys. Rhapsody Dearing, Qi Yao, Parisa Moghaddam-Taaheri, Amy Karlsson, AKUA ASA-AWUKU, University of Maryland, College Park
7IB.15 6:15	Surveillance and Detection of Influenza Viruses in Live Poultry Markets in Kunshan, China. Xinye Wang, EMILY BAILEY, William Lindsley, Gregory Gray, Duke University

7IB.16 6:15	Concentration Profile of Influenza Virus in Day Care Centers. YU-CHUAN YEN, Yi-Lian Lee, Pei-Shih Chen, Kaohsiung Medical University
7IB.17 6:15	Designed Micro-particles for Targeted Delivery of Anti-Tubercular Drugs and DNase. CHETHANI ATHUKORALA, Kavindra Kumaragama, Hema Priyamvada, Shantanu Sur, Suresh Dhaniyala, Clarkson University
7IB.18 6:15	Antibiotic Resistance Genes Spread via Exhaled Breath. YUNHAO ZHENG, Jing Li, Xinyue Li, Maosheng Yao, Peking University
7IB.19 6:15	Viability of Aerosolized Murine Noroviruses in Experimental Setup. MALIN ALSVED, Anders Widell, Mats Bohgard, Patrik Medstrand, Jakob Löndahl, Lund University, Sweden
7IB.20 6:15	Development of an Inhalational Animal Model of Q Fever. SARA RUIZ, Aysegul Nalca, US Army Medical Research Institute of Infectious Diseases
7IB.21 6:15	B. anthracis Spore Persistence Following Aerosol Challenge in New Zealand White Rabbits. SARA RUIZ, Aysegul Nalca, US Army Medical Research Institute of Infectious Diseases
7IB.22 6:15	Strategies for the Deployment of a Bioaerosol Air Sampling Network Following a Wide Area Attack. JONATHAN THORNBURG, Paul Mobley, Jean Kim, Prakash Doraiswamy, Timothy Boe, John Archer, M. Worth Calfee, Leroy Mickelsen, Sang Don Lee, RTI International
7IB.23 6:15	Aerosol Sampler Selection Impacts Quantification of Viable Burkholderia Pseudomallei. JILL TAYLOR, Michael Schuit, Paul Dabisch, BNBI / DHS NBACC
7IB.24 6:15	Modeling the Aerobiologic Transmission of Tuberculosis: Aerosol Studies using the Nonhuman Primate. RACHEL REDMANN, Stephanie Killeen, Nadia Golden, Deepak Kaushal, Chad J. Roy, Tulane University
7IB.25 6:15	Characterization of Aerosolized Middle East Respiratory Syndrome Coronavirus Infection in African Green Monkey Model. Allison Tutura, Virginia Livingston, Ondraya Frick, David Dyer, AYSEGUL NALCA, USAMRIID
7IB.26 6:15	Downstream Effects of Ameobic Co-culture on B. pseudomallei. SARA RUIZ, Katie Beck, Aysegul Nalca, US Army Medical Research Institute of Infectious Diseases

7IM	INSTRUMENTATION V: POSTERS EXHIBIT HALL 5 Allison Aiken and Ryan Sullivan, chairs
7IM.1 6:15	An Experimental Examination of the Usability of a High Temperature Condensation Nuclei Counter for Particles Down to 10 nm in Automotive Exhaust Gas. Markus Bainschab, MARTIN KUPPER, Martin Kraft, Alexander Bergmann, Graz University of Technology
7IM.2 6:15	Signal Detection for the Measurement of Aerosol Scattering Coefficients with an Integrating Nephelometer. HANS MOOSMULLER, Herbert Schloesser, Desert Research Institute
7IM.3 6:15	Enabling Long-Term Operation of a Motion-Tolerant, Water-Based Condensation Particle Counter. STEVEN SPIELMAN, Gregory Lewis, Nathan Kreisberg, Susanne Hering, Aerosol Dynamics Inc.
7IM.4 6:15	Numerical Simulation of a Parallel-plate Separator for PM2.5. TAKUTO YONEMICHI, Koji Fukagata, Kentaro Fujioka, Tomoaki Okuda, Keio University
7IM.5 6:15	Measurement of Effective Density of Submicron-sized Ambient Aerosols Using a Lab-made Single Stage Low-pressure Impactor with Scanning Mobility Particle Sizer. JANG-SEOP HAN, Junho Hyun, Jungho Hwang, Yonsei University, Korea
7IM.6 6:15	Calibration of Particle Number Concentration by Mobility-based Particle Size Distribution Instruments with Metrological Traceability. YOSHIKO MURASHIMA, Hiromu Sakurai, AIST
7IM.7 6:15	Measurement of Continuous PM and Black Carbon in a Wood Stove Dilution Tunnel. GEORGE ALLEN, Lisa Rector, NESCAUM
7IM.8 6:15	Identification of PM 2.5 Source and Composition at the Particle Level using Single Particle-ICP-MS and Single Particle ICP-OES. Chady Stephan, Aaron Hineman, CYNTHIA BOSNAK, PerkinElmer Inc
7IM.9 6:15	Characterization of a Dimer Preparation Method for Nanoscale Aerosol. NICHOLAS ROTHFUSS, Sarah Suda Petters, Markus Petters, North Carolina State University
7IM.10 6:15	Direct Measurement of Dust Concentration by Shadowgraphy Method—Direct Image Particle Analysis (DIPA). SHENG-CHIEH CHEN, Seungkoo Kang, Wing-Tak Lai, David Y. H. Pui, Virginia Commonwealth University

7IM.11 6:15	FTIR Method for Continuous Real Time Aerosol Characterization for In-vivo Studies. WEI TECK TAN, Subash Krishnan, Patrick Vanscheeuwijck, Philip Morris International Research Laboratories Pte Ltd
7IM.12 6:15	Correlating SMPS Size Distribution to spICP-MS Size Distribution for Flame Synthesized Titanium Dioxide Nanoparticles. NATHAN REED, Sanmathi Chavalmane, Ramesh Raliya, Sungyoon Jung, Pratim Biswas, Washington University in St. Louis
7IM.13 6:15	Can Ozone Be Used as a Calibrant for Photoacoustic Spectrophotometers? AL FISCHER, Geoffrey Smith, University of Georgia
7IM.14 6:15	Particle Detection Using the Dual-vaporizer Configuration of the Soot Particle Aerosol Mass Spectrometer. ANITA AVERY, Edward Fortner, Leah Williams, Wade Robinson, Timothy Onasch, Aerodyne Research, Inc.
7IM.15 6:15	Development of Caltech Scanning-mode Nano Radial Differential Mobility Analyzer System and Its Application to Nucleation Study at the CLOUD Experiment. CHANGHYUK KIM, Huajun Mai, Wilton Mui, Stavros Amanatidis, Dominik Stolzenburg, Richard Flagan, CLOUD Collaboration, California Institute of Technology
7IM.17 6:15	Near Real-Time Measurement of Crystalline Silica Aerosol Concentration Using Raman Spectroscopy. LINA ZHENG, Pramod Kulkarni, M. Eileen Birch, Kevin Ashley, Shijun Wei, Centers for Disease Control and Prevention, NIOSH
7IM.18 6:15	Analysis of Crystalline Silica Aerosol Using Quantum Cascade Laser-based Infrared Spectroscopy. SHIJUN WEI, Pramod Kulkarni, Lina Zheng, Kevin Ashley, Centers for Disease Control and Prevention, NIOSH
7IM.19 6:15	Characterization of Polarity Distribution of Organic Aerosol via HPLC Coupled with Fast Aerosol Size Distribution Measurements. Vikram Pratap, Yuanyuan Zhang, SHUNSUKE NAKAO, Clarkson University
7IM.20 6:15	A Gas-Inlet Design for Aircraft Sampling. DA YANG, Suresh Dhaniyala, Meilu He, Clarkson University
7IM.21 6:15	Roadmap For Statistical Calibration Model Development and Maintenance: Prediction of Organic and Elemental Carbon Composition in PM_{2.5} with Infrared Spectroscopy. SATOSHI TAKAHAMA, Matteo Reggente, Adele Kuzmiakova, Ann Dillner, Andrew Weakley, Bruno Debuss, EPFL

7IM.22 6:15	Diffusion Chargers for the Measurement of Particle Number Concentration according to the European Regulation. Barouch Giechaskiel, YANNIS DROSSINOS, European Commission, Joint Research Centre
7IM.23 6:15	Comparison between ACSM and AMS at an Urban Site in Atlanta, GA: The Use of Capture Vaporizer and PM_{2.5} Inlet. TAEKYU JOO, Weiqi Xu, Masayuki Takeuchi, Gamze Eris, Yunle Chen, Dao Huang, Gabriela Saavedra, Seongshik Kim, Dong Gao, Rodney J. Weber, Yele Sun, Philip Croteau, John Jayne, Nga Lee Ng, Georgia Institute of Technology
7IM.24 6:15	Method for Chemical Analysis of Nano-Aerosol Particles – Gas-to-Particle Transitions of Highly Oxygenated Organic Molecules. ANDREA C. WAGNER, Andreas Kürten, Martin Heinritzi, Mario Simon, Joachim Curtius, Goethe University Frankfurt
7IM.25 6:15	Development of a Laser-Induced Breakdown Spectroscopy (LIBS) System with Timed Ablation for a Single Particle Detection at a Low Concentration. HYUNOK MAENG, Hoseung Chae, Heesung Lee, Gibaek Kim, Haebum Lee, Kyoungtae Kim, Jihyun Kwak, Gangnam Cho, Kihong Park, Gwangju Institute of Science and Technology
7IM.26 6:15	Application of Laser Induced Breakdown Spectroscopy for Real Time Detection of Contamination Particles During Industrial Manufacturing. HAEBUM LEE, Hyunok Maeng, Gibaek Kim, Kyoungtae Kim, Nohhyeon Kwak, Kyungjoo Kim, Kihong Park, Gwangju Institute of Science and Technology
7IM.27 6:15	Development and Field-Testing of Two Aerosol Instruments on an Unmanned Aerial Vehicle. Osku Kempainen, Ryan Mersmann, Matthew Berg, Gavin McMeeking, TIM GORDON, Handix Scientific
7IM.28 6:15	Development and Evaluation of Dry Powder Aerosol Generator with Nozzle and Magnetic Stirrer for Inhalation Toxicity Testing of Nanomaterials. GUN-HO LEE, Kang-Ho Ahn, Hanyang University, R. of Korea
7IM.29 6:15	Direct Sampling of Sub-μm Atmospheric Particulate Organic Matter at Sub-ng m⁻³ Mass Concentrations by Proton-Transfer-Reaction Mass Spectrometry. MARKUS MUELLER, Andreas Klinger, Gregor Mayramhof, Joris Leglise, Todd Rogers, Armin Wisthaler, IONICON Analytik GmbH., Innsbruck, Austria

7IM.30 6:15	Laboratory Testing of Gas Exchange Efficiency in a Cylindrical Counter Flow Denuder. HAGINO HIROYUKI, Japan Automobile Research Institute (JARI)
7IM.31 6:15	Direct Measurement of Trace Multi-Elemental Aerosols using Inductively Coupled Plasma Time-of-Flight Mass Spectrometry and X-ray Fluorescence Spectroscopy. HAGINO HIROYUKI, Martin Tanner, Olga Borovinskaya, Toshihide Hikita, Akio Shimono, Kohei Nishiguchi, Yusuke Mizuno, Japan Automobile Research Institute (JARI)
7IM.32 6:15	Control of Number Concentration of Aerosol Nanoparticles Generated by Nanospray Drying. MASAKI SAKAMOTO, Fumitaka Ichihara, Takafumi Seto, Yoshio Otani, Kanazawa University
7IM.33 6:15	Application of Centrifugal Filter to Measurement of Aerosol Size Distribution. RYO OZAWA, Yoshio Otani, Takafumi Seto, Kanazawa University
7IM.34 6:15	Difference in the Sampling Artifacts During Aerosol Collection between Cyclone and Filter. DAIKI SHISHIDO, Tomoaki Okuda, Keio University
7IM.35 6:15	Particle Measurement of Coal-Fired Power Plant Exhaust from the Stack Using Dilution Probe. CHANG GYU WOO, Hak-Joon Kim, Bangwoo Han, Yong-Jin Kim, Suji Kang, Sungnam Chun, Korea Institute of Machinery and Materials

7LC	LOW-COST AND PORTABLE SENSORS I: POSTERS EXHIBIT HALL 5 Gediminas Mainelis and Shunsuke Nakao, chairs
7LC.1 6:15	CitySpace Air Sensor Network: Application of High-Time Resolution Data from a Network of Low-Cost Air Sensor Technology to Examine Urban Air Pollution. STEPHEN FEINBERG, Ron Williams, Gayle Hagler, Judy Low, Larry Smith, Ryan Brown, Daniel Garver, Michael Davis, Michael Morton, Joe Schaefer, John Campbell, Tim McArthur, ORISE/ORD-US EPA, RTP, NC
7LC.2 6:15	Field Performance Evaluation of Four Low-Cost Particulate Matter Sensors. ANDREA CLEMENTS, Manu Srivastava, Teri Conner, Joann Rice, Bruce Habel, Stephen Reece, Ron Williams, U.S. EPA Office of Research and Development
7LC.3 6:15	Deposition Characteristics of Bioaerosols: Towards Black Silicon-Based MEMS Bioaerosol Detection. UGUR SOYSAL, Evelyne Géhin, Frédéric Marty, Emmanuelle Algré, Charles Motzkus, Université Paris-Est, CERTES

7LC.4 6:15	Portable Digital Holography Instrument for In-situ Coarse-mode Aerosol Imaging. OSKU KEMPPINEN, Matthew Berg, Yuli W. Heinson, Stephen Holler, Kansas State University
7LC.5 6:15	EPA's Village Green Sensor-Based Air Monitoring Stations: Long-term Performance of PM2.5 Sensors. TERI CONNER, Sue Kimbrough, Ron Williams, Brad Johns, John White, Gayle Hagler, US EPA - ORD, RTP, NC
7LC.6 6:15	Evaluation of a Multi-wavelength Black Carbon Sensor. AMARA HOLDER, Brannon Seay, Sue Kimbrough, Johanna Aurell, Steven Blair, Jeff Blair, U.S. EPA
7LC.7 6:15	A Device Development for Measuring Atmospheric Columnar Integrated Air Pollution. Hardik Gajjar, DAYA KAUL, Pandit Deendayal Petroleum University
7LC.8 6:15	Smart Air Quality Network, the Measurement Network for the Future. VOLKER ZIEGLER, Markus Pesch, Matthias Budde, Michael Beigl, Till Riedel, Johannes Riesterer, Klaus Schäfer, Stefan Emeis, Duick Young, Josef Cyrus, Juergen Schnelle-Kreis, Andreas Philipp, Erik Petersen, Johanna Redelstein, Hans Grimm, Stefan Hinterreiter, Thomas Gratz, GRIMM Aerosol Technik Ainring GmbH & CO.KG, Germany
7LC.9 6:15	Application of Consumer-grade Sensors to Study the Effect of Heatwaves on Indoor Air Quality. RUIKANG HE, Gediminas Mainelis, Ioanna Tsoulou, Sanjeevi Thirumurugesan, Brian Morgan, Stephania Gonzalez, Deborah Plotnik, Jennifer Senick, Clinton J. Andrews, Rutgers, The State University of New Jersey
7LC.10 6:15	In-Situ Spectroscopic Analysis of PM Chemical Composition in a Low-Cost Particle Collector. HE JIAYANG, Byron Ockerman, Igor Novosselov, University of Washington
7LC.11 6:15	A Study Using Open-face Passive Samplers to Measure PM Concentration. ZHONG-MIN WANG, Yixin Zhou, Fraser Gaspar, Bradman Asa, Ryuzaburo Kamiya, California Department of Public Health
7LC.12 6:15	An Electric Impaction Sensor for Detecting PM2.5. CHEN TZU-MING, Hsu Jung-Nan, Fan-Lun Chen, Shuenn-Chin Chang, Industrial Technology Research Institute
7LC.13 6:15	Challenges in Low-Cost Sensor Calibration: A Case Study on Deployment of Sulfur Dioxide Electrochemical Sensors in an Urban Environment. REBECCA TANZER, Carl Malings, R. Subramanian, Albert Presto, Carnegie Mellon University

7LC.14 6:15	Investigating the Performance of a Low-Cost PM Monitor (Dylos) against Dusttrak DRX for Different Indoor and Outdoor PM Sources. MEHDI AMOUEI TORKMAHALLEH, Obaidullah Mohiuddin, Fatemeh Mohammadzashibi, Madina Obaidullah, Hamed Sharifi, Chemical and Aerosol Research Team, Nazarbayev University
7LC.15 6:15	CFD Analysis of Flow and Particle Behavior in the Performance Evaluation Chamber System for PM Sensor. SUNG-MIN SHIM, Jae-ho Cho, Hyeok Chung, Ki-tai Kang, Aerosol Research & Technology Plus
7LC.16 6:15	Toward a More Reliable Optical Smoke Detector: Scattering Matrix Analysis of Fire and Non-fire Aerosol for Classification. QIXING ZHANG, Jia Liu, Jie Luo, Feng Wang, Jinjun Wang, Yongming Zhang, University of Science and Technology of China
7LC.17 6:15	The Development of Low-Cost Particle Sensor for Air Quality Monitoring. JINHONG AHN, Innociple Co., Ltd.
7LC.18 6:15	Using Commercially Available Low-Cost Monitors to Estimate the Hourly Spatial Variability of Particulate Matter Concentrations across a Metropolitan Area. MAURO MASIOL, Stefania Squizzato, David C. Chalupa, Andrea R. Ferro, David Q. Rich, Philip K. Hopke, University of Rochester Medical Center
7LC.19 6:15	Measurements of Atmospheric Aerosol Vertical Distribution Using Multi-Rotors Unmanned Aerial Vehicle (UAV) and Portable Aerosol Instruments. ZHIJUN WU, Yishu Zhu, Yong-Hee Park, Kang-Ho An, Min Hu, Peking University, Beijing, China
7LC.20 6:15	A Guideline for the Application of the Shinyei PPD24NS Low-Cost Dust Sensor for Air Quality Monitoring. Michael Canu, BORIS GALVIS, Ricardo Morales Betancourt, Omar Ramirez, Malika Madelin, Universidad De La Salle, Colombia
7LC.21 6:15	Continuous Field Calibration of Low-Cost PM2.5 Sensor Networks. Kyle Alberti, GEOFF HENSHAW, Georgia Miskell, Hamesh Patel, Jonathan Taylor, David Williams, Aeroqual Ltd
7LC.22 6:15	Assessing Ambient Levels and Personal Exposures in Baltimore: The SEARCH Project. MISTI ZAMORA, Kirsten Koehler, Fulizi Xiong, Drew Gentner, Branko Kerkez, Johns Hopkins Bloomberg School of Public Health
7LC.23 6:15	An Experimental and Modeling Study of Interferences in Low-cost Air Quality Sensors. YUANYUAN ZHANG, Suresh Dhaniyala, Shunsuke Nakao, Clarkson University

7LC.24 6:15	Fine-scale Spatio-temporal Variation in Particulate Matter in a Small Wood-burning Town Revealed by a Network of Continuous Low-cost Sensors. Ian Longley, Gustavo Olivares, Sam Edwards, GUY COULSON, National Inst of Water and Atmospheric Research, New Zealand
7LC.25 6:15	Theoretical Analysis of a High-Pass Electrical Mobility Filter. NIC SURAWSKI, Spyros Bezantakos, Konstantinos Barmounis, Andreas Schmidt-Ott, George Biskos, University of Technology Sydney
7LC.27 6:15	The Performance Evaluation System of Low-Cost Air Quality Sensors in Taiwan. Yen-Ting Li, CHIA-WEI CHANG, Yi-Cyun Yang, Jiunn-Haur Shaw, Yeuh-Bin Wang, Industrial Technology Research Institute

7MG **AIR QUALITY IN MEGACITIES: FROM SOURCES TO CONTROL I: POSTERS**
EXHIBIT HALL 5
Amara Holder and Hector Jorquera, chairs

7MG.1 6:15	Study of the PM2.5 Growth Processes in Two Key Regions of China. Jinjin Sun, Mingjie Liang, JIANLIN HU, Qi Ying, Hongliang Zhang, Nanjing University of Information Science & Technology
7MG.2 6:15	Mercury Stable Isotope Compositions of PM2.5 in Chinese Cities. HONGMEI XU, Ruoyu Sun, Junji Cao, Xi'an Jiaotong University
7MG.3 6:15	Size-segregated Chemical Components of Aerosol Particles in Hefei, China. ANNA LI, Laboratory of Atmospheric Physico-Chemistry, Anhui Institute
7MG.4 6:15	Primary Sources and Secondary Formation of Organic Aerosols in Diadema, São Paulo, Brazil. DJACINTO MONTEIRO DOS SANTOS, Luciana Rizzo, Patrick Schlag, Samara Carbone, Paulo Artaxo, University of São Paulo
7MG.5 6:15	Contributions of the N2O5 Heterogeneous Hydrolysis Reaction to the Nitrate Formation in the North China Plain (NCP) During Wintertime: A Case Study. LANG LIU, Guohui Li, Institute of Earth Environment, Chinese Academy of Sciences
7MG.6 6:15	Lahore Smog – Componential Analysis, Causes and Effects. ZULFIQAR ALI, Irfan Zainab, Zona Zaidi, Komel Ahmad, Syed Turab Raza, Saira Khan, Rida Ahmad, Khadija Aziz, Mubashir Ahmad, Sidra Safdar, Zaheer Ahmad Nasir, Ian Colbeck, Nimra Afzal, University of the Punjab, Lahore, 54590, Pakistan

7MG.7 6:15	Characteristics of Atmospheric Ammonia and Its Relationship with Vehicle Emissions in Shanghai. Ruyu Wang, XINGNAN YE, Fudan University	7MG.17 6:15	Implementation Effect and Countermeasures of the "Air Pollution Prevention and Control Action Plan". WENKANG GAO, Guiqian Tang, Mengtian Cheng, Dongsheng Ji, Zirui Liu, Tao Song, Liang Li, Junke Zhang, Yuesi Wang, Inst. of Atmospheric Physics, Chinese Academy of Sciences
7MG.8 6:15	Secondary Organic Aerosol Production over Seoul, South Korea, during KORUS-AQ. BENJAMIN A. NAULT, Pedro Campuzano-Jost, Douglas Day, Jason Schroder, Bruce Anderson, Andreas Beyersdorf, Donald Blake, William Brune, John Crouse, Ronald Cohen, Joost de Gouw, Jack Dibb, Josh DiGangi, Glenn Diskin, Alan Fried, Greg Huey, Christoph Knote, Kara D. Lamb, Taehyoung Lee, Sally Pusede, Joshua P. Schwarz, Paul Wennberg, Armin Wisthaler, Jose-Luis Jimenez, et al., University of Colorado-Boulder	7MG.18 6:15	Relative Importance of Emissions from Ships, Locomotives, and Freeways in the Communities near Ports of Los Angeles and Long Beach and Their Impact on the Air Quality of Los Angeles Basin. AMIRHOSEIN MOUSAVI, Mohammad Sowlat, Sina Hasheminassab, Olga Pikelnaya, Andrea Polidori, George Ban-Weiss, Constantinos Sioutas, University of Southern California
7MG.9 6:15	Influence of Diwali Fireworks on Air Quality and Aerosol Optical Properties over a Mega City Delhi. SATEESH M., Vijay Kumar Soni, Raju P.V.S., India Meteorological Department	7MG.20 6:15	Aerosol Sources and Processes in Winter in Beijing: Insights from Aerosol Mass Spectrometry. YELE SUN, Zifa Wang, Pingqing Fu, Qingqing Wang, Wei Du, Weiqi Xu, Jian Zhao, Wei Zhou, Institute of Atmospheric Physics, CAS
7MG.10 6:15	Characteristics and Formation Mechanism of Nitrate during Haze Events in Beijing. QINGCHENG XU, Shuxiao Wang, Yang Hua, Jiming Hao, Tsinghua University	7MG.21 6:15	Evaluating Effects of Stubble Burning in Punjab and Haryana on the Air Quality of Delhi and National Capital Region. RAKESH KUMAR, Sanjeev Goyal, Gulia Sunil, Hemant Bherwani, NEERI
7MG.11 6:15	Effects of Aqueous-phase and Photochemical Chemistry on Winter Haze Formation and Evolution in Beijing, China. TAO MA, Fengkui Duan, Hiroshi Furutani, Michisato Toyoda, Takashi Kimoto, Lidan Zhu, Yongliang Ma, Kebin He, Tsinghua University	7MG.22 6:15	Characteristics of Submicron Aerosols in Summer of Beijing: Particle Size, Density, Hygroscopicity, and Mixing State. SONG GUO, Min Hu, Dongjie Shang, Zhuofei Du, Jing Zheng, Renyi Zhang, Peking University
7MG.12 6:15	Determination of the Emission Sources of Particulate Matter in Queretaro (Mexico). SARA ERIKA OLIVARES, Dara Salcedo, Harry Alvarez-Ospina, Carina Aguilon-Vazques, National University of Mexico	7MG.23 6:15	Evaluating Temporal Variation of MODIS AOD and Ground Based PM_{2.5} Mass Concentration over Mega City New Delhi, India. ALOK PANDEY, Purnima Bhardwaj, Manoj Singh, Ram Kumar, Krishan Kumar, Jawaharlal Nehru University
7MG.13 6:15	First Measurements from Smear Beijing Station: New Particle Formation in Urban Beijing and Source Apportionment of Atmospheric Pollutants. CHAO YAN, Juha Kangasluoma, Federico Bianchi, Tommy Chan, Biwu Chu, Lubna Dada, Kaspar Rudolf Dällenbach, Yueyun Fu, Xucheng He, Liine Heikkinen, Heikki Junninen, Yiliang Liu, Yiqun Lu, Qingxin Ma, Pekka Rantala, Yonghong Wang, Gan Yang, Rujin Yin, Ying Zhou, Joni Kujansuu, Tuukka Petäjä, Yongchun Liu, Lin Wang, Jingkun Jiang, Markku Kulmala, University of Helsinki/BUCT	7MG.24 6:15	The Influence of Gaseous Pollutants and Particulate Matter Concentration on New Particle Formation in Beijing. RUJING YIN, Yiqun Lu, Chao Yan, Juha Kangasluoma, Tommy Chan, Biwu Chu, Chenjuan Deng, Yueyun Fu, Xucheng He, Yiliang Liu, Xiaohui Qiao, Pekka Rantala, Yonghong Wang, Mo Xue, Gan Yang, Ying Zhou, Joni Kujansuu, Tuukka Petäjä, Yongchun Liu, Lin Wang, Jingkun Jiang, Markku Kulmala, Tsinghua University
7MG.15 6:15	Black Carbon Source Apportionment In Delhi during Winter. UMESH C. DUMKA, Suresh Tiwari, D.G. Kaskaoutis, S.D. Attri, Vijay Kumar Soni, P.D. Safai, Narendra Singh, N. Mihalopoulos, ARIES Nainital	7MG.25 6:15	Gaseous Nitrated Phenols as a Potential Source of OH Radicals in Beijing. XI CHENG, Qi Chen, Ying Liu, Tong Zhu, Peking University
7MG.16 6:15	Chemical Properties of PM_{2.5} and Their Potential Source in Urban Background of Delhi, India. MANOJ KUMAR, Fasiur Rahman, Divesh Bhatia, Gazala Habib, IIT Delhi	7MG.26 6:15	Sources and Transformations to Atmospheric Aerosols in Winter: A Carbon and Nitrogen Isotopic Study in Beijing. QIAN YU, Mo Xue, Di Wu, Lei Duan, Jingkun Jiang, Shuxiao Wang, Tsinghua University

7MS	
MATERIALS SYNTHESIS VI: POSTERS EXHIBIT HALL 5	
7MS.1 6:15	Production of Homogeneous Particles by Controlled Neutralization of Electrospays. Antonio Carrasco-Munoz, Elena Barbero-Colmenar, Eszter Bodnar, Jordi Grifoll, JOAN ROSELL-LLOMPART, Universitat Rovira i Virgili
7MS.2 6:15	Ultrafast Conversion of Ag Nanoagglomerates into Ag₂S Nanodots via Photoionization of Ag in Thiol Droplets. Bijay Kumar Poudel, Kyung-Oh Doh, JEONG HOON BYEON, Yeungnam University
7MS.3 6:15	Fabrication of Graphene Encapsulated Silicon Composites from Graphene Oxides and Waste Silicon Sludge for Lithium Ion Batteries. HEE DONG JANG, Sun Kyung Kim, Hankwon Chang, Korea Institute of Geoscience & Mineral Resources
7MS.4 6:15	Aerosol Chemical Vapor Deposition of Nanostructured Thin Films for Lithium-Ion Battery Negative Electrodes. CLAYTON KACICA, Louis Wang, Tandeep Chadha, Pratim Biswas, Washington University in St Louis
7MS.5 6:15	Stability and Control of the Electro spray Cone-Jet Mode. Gabriel Garcia-Soriano, Santiago Martin, Jose L Castillo, PEDRO L GARCIA-YBARRA, Universidad Nacional de Educacion a Distancia - UNED
7MS.6 6:15	Novel Aerosol Method for the Fabrication of Si-MWCNT-C Composite Spheres as Anode Materials for Lithium Ion Battery. HANKWON CHANG, Chan Mi Kim, Sun Kyung Kim, Dae Sup Kil, Hee Dong Jang, Korea Institute of Geoscience and Mineral Resources
7MS.7 6:15	Copper Nanoparticle-based Films Fabricated by Spark Discharge Deposition for Surface-Enhanced Raman Spectroscopy. MOHAMED ABD EL-AAL, Takafumi Seto, Yoshio Otani, Kanazawa University
7MS.8 6:15	Using Aerosol-based Analytical Methods for the Synthesis of Functional Nanomaterial Colloids. DE-HAO TSAI, National Tsing Hua University
7MS.9 6:15	Size-Controlled Synthesis of Pd Doped TiO₂ Catalyst in a Flame Aerosol Reactor (FLAR) for Oxygen Removal from Carbon Dioxide Enriched Combustion Exhaust Gases. SUNGYOON JUNG, Pratim Biswas, Washington University in St Louis

7MS.10 6:15	Investigation of the Role of Charging on the Particle Growth during Combustion in Spray Flame Aerosol Reactor. SUKRANT DHAWAN, Girish Sharma, Pratim Biswas, Washington University in St Louis
7MS.11 6:15	Aerosol-assisted Synthesis of a Columnar TiO₂ Electron Transport Layer for Application in Photovoltaics. ROBIN WHEELUS, Shaline Kavadiya, Pratim Biswas, Washington University in St. Louis
7MS.12 6:15	Controlling the Structure and Morphology of Functional Nanoporous Films Fabricated by Direct Deposition of Nanoparticles from Liquid Flame Spray (LFS). JYRKI M. MÄKELÄ, Janne Haapanen, Paxton Juuti, Miika Sorvali, Markus Nikka, Elham Baniadam, Tampere University of Technology, Tampere, Finland

7TT	
AEROSOL TRANSPORT AND TRANSFORMATION II: POSTERS EXHIBIT HALL 5 Kerrigan Cain and Emily Ramnarine, chairs	
7TT.1 6:15	Modelling Biomass Burning Plumes: The Impacts of Dilution, Chemistry, and Coagulation on the Size Distribution and Resulting Direct and Indirect Effects. ANNA HODSHIRE, Qijing Bian, Shantanu Jathar, Sonia Kreidenweis, Jeffrey R. Pierce, Colorado State University
7TT.2 6:15	Spatial and Temporal Characteristics of Taklimakan Desert Dust and Its Air Quality Influence Using the WRF/CMAQ Model System. WENYE DENG, Jiaerheng Ahati, Xue Qiao, Xinjie Yuan, Kui Deng, Jing He, Weiyang Lin, Jing Yang, Jie Zhu, Weixin Du, Hongliang Zhang, Xinjiang Academy of Environmental Protection Science
7TT.3 6:15	The Impact of Wet Deposition on Long-Range Aerosol Transport Arriving at the Maldives. JUTTA KESTI, John Backman, Eija Asmi, Ewan O'Connor, Orjan Gustafsson, Krishnakant Budhavant, Finnish Meteorological Institute
7TT.4 6:15	Comparison of PM-Bound Polycyclic Aromatic Hydrocarbons and Nitropolycyclic Aromatic Hydrocarbons in Urban Air in the WHO's Western Pacific Regions. KAZUICHI HAYAKAWA, Ning Tang, Edward Nagato, Kanazawa University

7TT.5 6:15	Seasonal Variations of Mass Concentration and Chemical Composition of Fine Particulate Matter in a High-Elevation Subtropical Forest in East Asia – Impact of Anthropogenic and Biogenic Emissions. CELINE SIU LAN LEE, Charles C.K. Chou, Chien-Cheng Jung, Joe Hing Cho Cheung, Chao-Yang Tsai, RCEC, Academia Sinica, Taiwan, R.O.C.
7TT.6 6:15	Investigation of Spatial and Temporal Variations in Aerosol Mixing State Using a Particle-Resolved Regional Aerosol Model. JEFFREY H. CURTIS, Nicole Riemer, Matthew West, University of Illinois at Urbana-Champaign
7TT.7 6:15	Assessment of the Possible Radioactive Particles Flux from the Surface in the Territory of the Russian Federation. VILTORIA BYCHKOVA, Dmitriy Pripachkin, IBRAE RAN, Russian Federation
7TT.8 6:15	Transboundary Transport of Anthropogenic Sulfur in PM_{2.5} at a Coastal Site in the Sea of Japan during 2013 to 2016. YAYOI INOMATA, Kanazawa University
7TT.9 6:15	Global Long-range Transport and Lung Cancer Risk of Polycyclic Aromatic Hydrocarbons Shielded by Viscous Secondary Organic Aerosols. MANISHKUMAR SHRIVASTAVA, Sijia Lou, Alla Zelenyuk, Richard Easter, Richard Corley, Brian Thrall, Philip Rasch, Jerome Fast, Staci L. Simonich, Huizhong Shen, Shu Tao, Pacific Northwest National Laboratory
7TT.10 6:15	Aerosol Size Distributions in Lower Atmospheric Boundary Layer above Coal Strip Mine by Airborne Measurements. JAN HOVORKA, Miroslav Klán, Milos Zapletal, Jana Esterlova, Jan Bendl, Filip Kozbrzek, Petr Marecek, Charles University in Prague

7TT.11 6:15	A Near-Global Analysis of In-Situ Profiles of Seasalt Aerosol. STEVEN HOWELL, Steffen Freitag, Nikolai Smirnow, University of Hawaii
7TT.12 6:15	The Topography Contribution to the Influence of the Atmospheric Boundary Layer at High Altitude Stations. Martine Collaud Coen, Elisabeth Andrews, Dominique Ruffieux, FRANCISCO NAVAS-GUZMÁN, Federal Office of Meteorology and Climatology
7TT.13 6:15	Airborne Investigation of the Vertical Layering and Transport Processes of Aerosol Particles in the Marine Boundary Layer and the Free Troposphere over the Atlantic Ocean. BIRGIT WEHNER, Silvia Henning, Felix Lauermann, Janine Lueckerath, Greg Roberts, Kai-Erik Szodry, Holger Siebert, Leibniz-Institute for Tropospheric Research
7TT.14 6:15	Mobile Aerosol Measurement in Areas Around Coal-Fired Power Plants. SUJI KANG, Sungnam Chun, Gayoung Lee, Jinpyo Hong, Korea Electric Power Corporation Research Institute, Korea
7TT.15 6:15	The Sahara Desert Dust Contribution in the Central Amazonia Determined with in situ Measurements in the ATTO Tower and in the ZF2 Reserve and Remote Sensing Use. RAYNER SANTOS, Paulo Artaxo, National Institute of Research of the Amazon

TUESDAY | 6:15 PM - 8:30 PM

Exhibitor Reception

TUESDAY | 6:15 PM - 8:30 PM

Historical Instrumentation Demo



WEDNESDAY

WEDNESDAY | 8:00 AM - 9:15 AM

Plenary III

8:00	<p>High Sectorially Resolved Inventories to Evaluate Air Quality Trends in China</p> <p>Shu Tao, Peking University</p> <p>Moderator: Lupita Montoya, University of Colorado</p>
9:00	<p>Smoluchowski Award, Schmauss Award, Kenneth T. Whitby Award</p> <p>Alfred Weber, Technical University Clausthal, Germany;</p> <p>Jeff Collett, Colorado State University</p>

WEDNESDAY | 9:00 AM - 12:00 PM

Exhibits Open

WEDNESDAY | 9:15 AM - 9:45 AM

Coffee Break

WEDNESDAY | 9:45 AM - 12:00 AM

Session 8: Platform

8AC	<p>AEROSOL CHEMISTRY VIII - SECONDARY ORGANIC AEROSOLS: METHODS/INSTRUMENTS ROOM 275</p> <p>Gabriel Isaacman-Van Wertz and David Bell, chairs</p>
<p>8AC.1 9:45</p>	<p>Formula vs. Structure: Impacts of Isomers on Interpretation, Calibration, and Parameterization of Atmospheric Mass Spectrometric Data.</p> <p>GABRIEL ISAACMAN-VANWERTZ, Bernard Aumont, Manjula Canagaratna, Paola Massoli, John Nowak, Jordan Krechmer, Rachel O'Brien, Jesse Kroll, Douglas Worsnop, Virginia Tech</p>
<p>8AC.2 10:00</p>	<p>Molecular Markers and Thermal Decomposition of Biogenic Secondary Organic Aerosol: Insight from Lab and Field Observations by Thermal Desorption – Gas Chromatography – Mass Spectrometry.</p> <p>MICHAEL WALKER, Riley Martell, Audrey Dang, Raul Martinez, David Hagan, Thomas Berkemeier, Masayuki Takeuchi, Gamze Eris, Nga Lee Ng, Brent Williams, Washington University in St. Louis</p>

<p>8AC.3 10:15</p>	<p>Making Quantitative Measurements in Environmental Chamber Studies of VOC Oxidation and SOA Formation: Evaluating and Accounting for Potential Sources of Error.</p> <p>JULIA BAKKER-ARKEMA, Paul Ziemann, University of Colorado</p>
<p>8AC.4 10:30</p>	<p>Probing the Molecular Composition of Model Systems and Secondary Organic Aerosol during Evaporation.</p> <p>DAVID BELL, Veronika Pospisilova, Amelie Bertrand, Houssni Lamkaddam, Chuan Ping Lee, Ruby Marten, Jay G. Slowik, Andre S.H. Prévôt, Urs Baltensperger, Imad El Haddad, Josef Dommen, Paul Scherrer Institute</p>
<p>8AC.5 10:45</p>	<p>Gas-to-Particle Partitioning of Major Oxidation Products from Monoterpenes and Real Plant Emissions as Measured by Three Novel Aerosol Chemical Characterization Techniques.</p> <p>Georgios Gkatzelis, THORSTEN HOHAUS, Ralf Tillmann, Iulia Gensch, Markus Mueller, Philipp Eichler, Xu Kang-Ming, Patrick Schlag, Sebastian H. Schmitt, Yu Zhujun, Rupert Holzinger, Armin Wisthaler, Astrid Kiendler-Scharr, Forschungszentrum Juelich GmbH, Germany</p>
<p>8AC.6 11:00</p>	<p>Real-time Measurements of Gas/Particle Partitioning of Semivolatile Organic Compounds into Different Probe Particles in a Teflon Chamber.</p> <p>XIAOXI LIU, Douglas Day, Jordan Krechmer, Paul Ziemann, Jose-Luis Jimenez, University of Colorado Boulder</p>
<p>8AC.7 11:15</p>	<p>Development of a Method for the Measurement of the Henry's Law Constant Distribution of Atmospheric Organic Aerosol.</p> <p>AIKATERINI LIANGOU, Kerrigan Cain, Petro Uruci, Antonios Tasoglou, Spyros Pandis, University of Patras, Patras, Greece</p>
<p>8AC.8 11:30</p>	<p>Laboratory Evaluation of Organic Aerosol Chemical Composition Measurements Obtained from High-Resolution Mass Spectrometers with Different Soft Ionization Schemes.</p> <p>JORDAN KRECHMER, Andrew Lambe, Felipe Lopez-Hilfiker, John Jayne, Douglas Worsnop, Manjula Canagaratna, Aerodyne Research, Inc.</p>
<p>8AC.9 11:45</p>	<p>Use of Continuous Measurements of the Growth Rate of Particles Inside Captive Aerosol Chambers to Study the Properties and Sources of the Species Responsible for Their Growth.</p> <p>DON COLLINS, Cassandra Milan, Jordan McCormick, Sean Kinahan, Joshua Santarpia, James Flynn, Matthew H. Erickson, Robert Griffin, Henry Wallace, Alexander Bui, Texas A&M University</p>

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8AE	AEROSOL EXPOSURE IV: MONITORING & SOURCE APPORTIONMENT ROOM 265/266 Andrea Ferro and Cheol-Heon Jeong, chairs
8AE.1 9:45	Characterization of the Potential Exposure of Vulnerable Communities to Traffic-related Air Pollutants in Urban Microenvironments. CHEOL H. JEONG, James M. Johnson, Cuilian Fang, Peter Murphy, Jon M. Wang, Kerolyn Shairsingh, Barbara Lachapelle, Christopher Morgan, Greg J. Evans, SOCAAR, University of Toronto
8AE.2 10:00	Fine Particulate and Black Carbon Exposure for Users of a Bus Rapid Transit System: Role of Vehicle Age and Impact of Fleet Renewal. RICARDO MORALES BETANCOURT, Boris Galvis, Juan Manuel Rincón, María Alejandra Rincón, Yadert Contreras Barbosa, Universidad de los Andes
8AE.3 10:15	Comparing Real-Time In-Cabin/Outdoor Particulate and CO Concentrations during Car Commutes along Freeway and Non-Freeway Roads, and Whilst Idling at Traffic Lights, in Saint Louis, MO. ANNA LEAVEY, Nathan Reed, Sameer Patel, Kevin Bradley, Pramod Kulkarni, Pratim Biswas, Washington University in St Louis
8AE.4 10:30	Exploring the Socio-Economic Inequalities in the Exposure to Air Pollutants during Commuting by Different Travel Modes. IOAR RIVAS, Prashant Kumar, Alex Hagen-Zanker, University of Surrey
8AE.5 10:45	Quantifying High-resolution Spatial Variations and Local Source Impacts of Urban Ultrafine Particle Exposure. PROVAT SAHA, Naomi Zimmerman, Luke Snell, Joshua Apte, Allen Robinson, Albert A. Presto, Carnegie Mellon University
8AE.6 11:00	The Fresh Air Wristband: Measuring Personal Environmental Exposures Using a Wearable Air Pollutant Monitor. ELIZABETH LIN, Sarah Esenther, Fareeha Irfan, Massimiliano Mascelloni, Krystal Godri Pollitt, University of Massachusetts Amherst
8AE.7 11:15	Evaluation of Portable Instruments for Measuring Nanoparticles Exposure and Respirator Performance under Simulated Workplace Conditions. ZIQING ZHUANG, Evanly Vo, Matthew Horvatin, NIOSH
8AE.8 11:30	Characterization and Quantification of Hexavalent Chromium and Other Air Toxic Metals in Communities Surrounding Metal Processing Facilities. EDWARD FORTNER, Paola Massoli, Tara Yacovitch, Scott Herndon, Andrey Khlystov, David Campbell, John Jayne, Aerodyne Research, Inc.

8AE.9 11:45	Detail Characterization of Aerosol Physical Properties of Mainstream and Sidestream Cigarette Smoke. TA-CHIH HSIAO, Ying-Jyun Chen, Hsiao-Chi Chuang, Chin-Sheng Tang, National Central University
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8AM	AEROSOL MODELING VI ROOM 260 Patricio Piedra and Girish Sharma, chairs
8AM.1 9:45	Developing Model Surrogates for Monoterpenes to Improve Predictions of Secondary Organic Aerosol. ISAAC AFREH, Bernard Aumont, Marie Camredon, Richard Valorso, Kelley Barsanti, University of California, Riverside
8AM.2 10:00	Growth Kinetics and Size Distribution Evolution of Viscous Secondary Organic Aerosol. RAHUL ZAVERI, John Shilling, Alla Zelenyuk, Jiumeng Liu, David Bell, Emma L. D'Ambro, Cassandra Gaston, Joel A. Thornton, Alexander Laskin, Peng Lin, Jacqueline Wilson, Richard Easter, Jian Wang, Allan Bertram, Scot T. Martin, John Seinfeld, Douglas Worsnop, Pacific Northwest National Laboratory
8AM.3 10:15	Carbon-, Oxygen-, and Size- Resolved Model to Simulate the Microphysics, Chemistry, and Thermodynamics of Biomass Burning Organic Aerosol. ALI AKHERATI, Christopher Cappa, Jeffrey R. Pierce, Shantanu Jathar, Colorado State University
8AM.4 10:30	Modelling the Evaporative Behaviour of Secondary Organic Aerosol Formed from α-pinene. YU MORINO, Kei Sato, Shantanu Jathar, Kiyoshi Tanabe, Satoshi Inomata, Yuji Fujitani, Christopher Cappa, morino.yu@nies.go.jp
8AM.5 10:45	Causal Models as a Tool for Analyzing Dependence Structure of Variables in Combustion Aging Data. VILLE LEINONEN, Olli Sippula, Petri Tiitta, Ari Leskinen, Juha Karvanen, Annele Virtanen, Santtu Mikkonen, University of Eastern Finland
8AM.6 11:00	Monte Carlo Simulations of Particle Production and Processing: The Role of Evaporation and the Applied Nucleation Theories. GREGOR KOTALCZYK, Ivan Skenderovic, Frank Einar Kruis, University Duisburg-Essen
8AM.7 11:15	Estimation of Nucleation and Condensation Rates From Size Distribution Measurements Using Statistical Inverse Methodology. MATTHEW OZON, Aku Seppänen, Anton Laakso, Jari Kaipio, Kari Lehtinen, University of Eastern Finland

8AM.8 11:30	Equilibration Timescale of Atmospheric Secondary Organic Aerosol Partitioning under a Wide Range of Temperature and Relative Humidity. YING LI, Manabu Shiraiwa, University of California Irvine
8AM.9 11:45	Advancements in Aerosol Thermodynamics for Large-Scale Applications – Bridging the Gap between Structure and Volatility-Based Models. KYLE GORKOWSKI, Andreas Zuend, McGill University

8CB	COMBUSTION II ROOM 263 Rawad Saleh and Patrick Roth, chairs
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8CB.1 9:45	Gasoline Aromatic and Oxygen Content Impact on Formation of Secondary Aerosols from a GDI Vehicle. PATRICK ROTH, Jiacheng Yang, Ayla Moretti, Thomas D. Durbin, David R. Cocker III, Akua Asa-Awuku, Georgios Karavalakis, University of California, Riverside
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8CB.2 10:00	Effect of Fuel Properties on Diesel Engine Exhaust PM Physicochemical Characteristics. LI XINLING, Shanghai Jiao Tong University
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8CB.3 10:15	Effect of Fuel Oxygen Content on Morphology and Nanostructure Characteristics of Diesel Particulate Matter. PUNEET VERMA, Mohammad Jafari, Edmund Pickering, Yi Guo, Svetlana Stevanovic, Richard Brown, Zoran Ristovski, QUT, Australia
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8CB.4 10:30	Nanoparticle Emissions from a Gas Engine – Effects of Gas and Lubricant Oil Composition. MIA ISOTALO, Jenni Alanen, Joonas Vanhanen, Sampsa Martikainen, Hannu Vesala, Rasmus Pettinen, Sanna Saarikoski, Minna Aurela, Pauli Simonen, Mika Kettunen, Minna Väkevää, Hilikka Timonen, Kati Lehtoranta, Jorma Keskinen, Topi Rönkkö, Tampere University of Technology
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8CB.5 10:45	Effect of High-Speed Driving Conditions on SOA Formation Potential from GDI Vehicle. NIINA KUITTINEN, Stephen Zimmerman, Weihan Peng, Cavan McCaffery, Patrick Roth, Pauli Simonen, Jorma Keskinen, Topi Rönkkö, Roya Bahreini, David R. Cocker III, Georgios Karavalakis, Tampere University of Technology
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8CB.6 11:00	Nature of Sub 10 nm Particles Emitted from Gasoline DI and Diesel Engines. HIROYUKI YAMADA, Tokyo Denki University
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8CB.7 11:15	Comparing On-Road and Laboratory Measurements of Primary Emissions and Secondary Aerosol Formation Potential of Individual Light-Duty Vehicles. Pauli Simonen, Joni Kalliokoski, Panu Karjalainen, MIKKKA DAL MASO, Topi Rönkkö, Sanna Saarikoski, Minna Aurela, Matthew Bloss, Hilikka Timonen, Georgios Triantafyllopoulos, Athanasios Dimaratos, Leonidas Ntziachristos, Zissis Samaras, Jorma Keskinen, Tampere University of Technology
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8CB.8 11:30	Towards Monitoring Automobile Ultra-fine Particle Emissions: Size-dependent Chemical Composition. CRISTIAN FOCSA, Dumitru Duca, Jennifer Noble, Yvain Carpentier, Marin Vojkovic, Andreas Manz, Matthias Lyska, Roman Grzeszik, Torsten Tritscher, Juergen Spielvogel, Marcus Rieker, Université de Lille
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8CB.9 11:45	A Comparison of Partial Flow to Full Flow Dilution Tunnel Sampling for Engine Exhaust PM Measurement. MATTI MARICQ, Ford Motor Company
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8ES	AEROSOLS IN EARTH SYSTEM II ROOM 267 Luke Ziemba and Jian Wang, chairs
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8ES.1 9:45	Changes in Direct Radiative Forcing due to Differences in Marine Aerosol Size Distributions during NAAMES Field Campaigns. GEORGES SALIBA, Raghu Betha, Savannah Lewis, Chia-Li Chen, Lynn Russell, Timothy Bates, Patricia Quinn, Scripps Institution of Oceanography
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8ES.2 10:00	The Global Distribution of Sea Salt Aerosol and Its Removal Mechanism. DANIEL MURPHY, Karl D. Froyd, Huisheng Bian, Charles Brock, Maximilian Dollner, Agnieszka Kupc, Bernadett Weinzierl, Christina Williamson, Pengfei Yu, NOAA ESRL
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8ES.3 10:15	Characterization of Haboob Dust Storms in Phoenix, AZ. PIERRE HERCKES, Denise Napolitano, Aurelie Marcotte, Jershon Eagar, Matthew Fraser, Arizona State University
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8ES.4 10:30	The Size Distribution and Physical Characteristics of Surface Material in Iceland. MARY K. BUTWIN, Melissa A. Pfeffer, Throstur Thorsteinsson, Sibylle von Löwis, University of Iceland
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8ES.5 10:45	Results from BAEEC Campaign in Hyttiälä, Finland. TUUKKA PETÄJÄ, Ksenia Tabakova, Antti Manninen, Dmitri Moisseev, Ewan O'Connor, Victoria Sinclair, Markku Kulmala, Veli-Matti Kerminen, University of Helsinki, Finland
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8ES.6 11:00	Single Particle Measurements from Winter Fog Events in the Indo-Gangetic Plain. MICHAEL GIORDANO, Benjamin Werden, Khadak Mahata, Narayan Babu Dhital, Nita Khanal, Amit Bhujel, Sagar Adhikari, Siva Praveen Puppala, Arnico Panday, Peter DeCarlo, Drexel University
8ES.7 11:15	Estimation of Snow Albedo Reduction due to Deposition of Light Absorbing Aerosols Using a Monte Carlo Radiative Transfer Model. DEEP SENGUPTA, Lan Gao, Eric Wilcox, Nicholas D Beres, Chiranjivi Bhattarai, Vera Samburova, Adam Watts, Andrey Khlystov, Hans Moosmuller, Desert Research Institute
8ES.8 11:30	Spatial and Temporal Variation Aspects of Aerosol Black Carbon Concentration over India. RAVI RANJAN KUMAR, Vijay Kumar Soni, Sateesh M., M.K. Jain, Sanjay Bist, Siddhartha Singh, India Meteorological Department
8ES.9 11:45	Aerosol Light Absorption at Different Altitudes in the European Arctic, Svalbard: The Effect of Boundary Layer Height. Vasileios Stathopoulos, Mauro Mazzola, Christos Matsoukas, KONSTANTINOS ELEFThERIADIS, NCSR Demokritos, Athens, Greece

8IB	INFECTIOUS BIOAEROSOL III ROOM 264 Paul Dabisch and Lindsey Marr, chairs
8IB.1 9:45	Melioidosis from Aerosolization of the Environmental Bacterium Burkholderia Pseudomallei. BART CURRIE, Menzies School of Health Research & Royal Darwin Hosp., AU. KEYNOTE.
8IB.3 10:15	Aerodynamic Particle Size Affects Infectivity and Lethality, but not Disease Timecourse, in a Nonhuman Primate Model of Inhalational Melioidosis. JEREMY BOYDSTON, John Yeager, Artemas Herzog, Jill Taylor, David Dawson, Angelo Scorpio, Paul Dabisch, BNBI / DHS NBACC
8IB.4 10:30	Pulmonary Delivery of Ceftazidime for the Treatment of Melioidosis in a Murine Model. SARA RUIZ, Larry Bowen, Mark Bailey, Cory Berkland, USAMRIID
8IB.5 10:45	Defining Pathogen Transmission Risks during Aerosol Generating Procedures in Healthcare Settings. Jiayu Li, Carrie O'neil, Ramesh Raliya, Yang Wang, Anna Leavey, Meghan Wallace, Carey-Ann Burnham, Adrianus Boon, HILARY BABCOCK, Pratim Biswas, Washington University in St Louis

8IB.6 11:00	Overview of Tuberculosis Transmission by Aerosol. CHAD J. ROY, Tulane University
8IB.7 11:15	Capture and Characterization of Exhaled Bio-aerosols from Tuberculosis (TB) Patients. ROBIN WOOD, Carl Morrow, Benjamin Patterson, Wayne Bryden, Charles Call, David Silcott, Catherine Fenselau, D. Chen, R. Dinkele, S. Gessner, Digby Warner, IDM, University of Cape Town
8IB.8 11:30	Exploring the Fundamentals of Biological Decay and Survival in Aerosol Droplets with a New In Vitro Technology. MARA OTERO-FERNANDEZ, Allen E. Haddrell, Jonathan P. Reid, Richard Thomas, University of Bristol
8IB.9 11:45	Studying Survival of Aerosolised Bacteria Using Poly(methyl) Methacrylate Microthreads. ANDREW SCOTT, Carwyn Davies, Emma Keyser, Dstl

8IM	INSTRUMENTATION VI: SPECTROSCOPY, OPTICAL TECHNIQUES ROOM 276 Geoff Smith and Clara Seaman, chairs
8IM.1 9:45	Overview of the First In-situ Intercomparison of Aerosol Photoacoustic Spectrometers. CHRISTOPHER ZANGMEISTER, James Radney, National Institute of Standards and Technology
8IM.2 10:00	MultiPAS-IV: A Portable, Four-wavelength Photoacoustic Spectrometer for Ambient Aerosol Absorption. GEOFFREY SMITH, Al Fischer, University of Georgia
8IM.3 10:15	Counting Efficiency Evaluation of Optical Particle Counters in Micrometer Range by Using Inkjet Aerosol Generator. KENJIRO IIDA, Hiromu Sakurai, AIST
8IM.4 10:30	A Single-pass RGB Differential Photoacoustic Spectrometer for Aerosol Absorption Measurement. ZHENHONG YU, Gregory Magoon, William Brown, James Assif, Richard Miake-Lye, Aerodyne Research, Inc.
8IM.5 10:45	Experimental Determination of Aerosol Growth Kinetics via Simultaneous Measurement of Constant Angle Mie Scattering Pattern at Two Different Wavelengths. MIGUEL VAZQUEZ-PUFLEAU, Paul M. Winkler, Universitaet Wien, Vienna, Austria

8IM.6 11:00	Morphology and Comparisons of BC Mass Concentrations Measured by LII, CAPS, and PAX of PM Emitted from a Grand Cherokee and a Ford F-150 under Different Drive Cycles. FENGSHAN LIU, Fadi Araji, Greg Rideout, Prem Lobo, Gregory Smallwood, National Research Council Canada
8IM.7 11:15	Determination of the Effect of Lens Fouling of the CAS-POL for the Measurement of Airborne Float Coal Dust. CLARA E. SEAMAN, Michael R. Shahan, National Institute for Occupational Safety and Health
8IM.8 11:30	Data Inversion Methods to Determine Sub-3 nm Particle Size Distributions Using the Particle Size Magnifier. RUNLONG CAI, Dongsun Yang, Lauri R. Ahonen, Linlin Shi, Frans Korhonen, Yan Ma, Tuukka Petäjä, Jun Zheng, Juha Kangasluoma, Jingkun Jiang, Tsinghua University
8IM.9 11:45	Effects of Multiple Scattering by Fresh Soot Aerosols on Open-Path Optical Diagnostics of Atmospheric Plumes. BRADLEY CONRAD, Matthew Johnson, Jeremy Thornock, Carleton University

8LC	LOW-COST AND PORTABLE SENSORS II FERRARA THEATER Kang-Ho Ahn and Christof Asbach, chairs
8LC.1 9:45	Calibration and Long-Term Performance Evaluation of Low-Cost Sensors for Gas and Fine Particulate Mass Monitoring with RAMPS. CARL MALINGS, Rebecca Tanzer, Provat Saha, Aja Ellis, Rose Eilenberg, Aliaksei Haurlyiuk, Srinivasa Prabhu Nehru Kumar, Naomi Zimmerman, Levent Burak Kara, Albert Presto, R. Subramanian, Carnegie Mellon University
8LC.2 10:00	One Year Spatial and Temporal Variability of PM in a Southern California Community using an Air Quality Sensors Network. BRANDON FEENSTRA, Vasileios Papapostolou, Ross Cheung, Andrea Polidori, South Coast Air Quality Management District
8LC.3 10:15	Field Validation of a Low-Cost Integrated PM2.5 and Aerosol Optical Depth Monitor. ERIC WENDT, Jessica Tryner, Christian L'Orange, Bonne Ford, Casey Quinn, John Mehaffy, Jeffrey R. Pierce, Shantanu Jathar, Dan Miller-Lionberg, John Volckens, Colorado State University
8LC.4 10:30	Using an Electrostatic Sensor to Measure Real Time PM Levels in Engine Exhaust. MATTI MARICQ, David Bilby, Ford Motor Company
8LC.5 10:45	New Test Method for the Low Cost Dust Sensors. KANG-HO AHN, Yong-Hee Park, Woo-Young Kim, Hee-Sang Kim, Hanyang University, R. of Korea

8LC.6 11:00	Possibilities and Limitations of Low-cost PM Sensors. CHRISTOF ASBACH, Michael Spreitzer, Michael Bässler, Thorsten Schultze, Jörg Lindermann, Heinz Kaminski, Bryan Hellack, Ana Maria Todea, IUTA, Duisburg, Germany
8LC.7 11:15	Field Calibration of 50 AQMESH Air Quality Sensors. Jacob Swanson, TRES WUERFFEL, Monika Vadali, Minnesota State University, Mankato
8LC.8 11:30	Improving Quantification Methods for Long-term (24-36 mo.) Low-cost Air Quality Sensor System Deployments. EBEN CROSS, David Hagan, Leah Williams, Jesse Kroll, John Jayne, Aerodyne Research, Inc.
8LC.9 11:45	Application of Low-Cost Sensors for the Monitoring of Air Quality by Bicycle. ERICK KILL, Paulo Saldiva, Luiz Pereira, University of São Paulo

8MG	AIR QUALITY IN MEGACITIES: FROM SOURCES TO CONTROL II - SOURCES ROOM 274 Lupita Montoya and Fatima Andrade, chairs
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8MG.1 9:45	Sources and Impacts of Megacities Emissions from Local to Global Scales: Challenges and Opportunities for Mitigation. LUISA MOLINA, Molina Center for Energy and Environment
8MG.2 10:00	Fine Particles Sources in São Paulo: Evolution of Sources Identification for the Last 30 Years. MARIA DE FATIMA ANDRADE, Regina Maura Miranda, Luis Mendes Santos, Yann Marien, University of Sao Paulo
8MG.3 10:15	Spatio-Temporal Trends and Source Apportionment of Fossil Fuel and Biomass Burning Black Carbon (Bc) in the Los Angeles Basin. AMIRHOSEIN MOUSAVI, Mohammad Sowlat, Sina Hasheminassab, Andrea Polidori, Constantinos Sioutas, University of Southern California
8MG.4 10:30	Source Apportionment of High Resolution Aerosol Trace Elements in Beijing, China. P. RAI, Markus Furger, Jay G. Slowik, Francesco Canonaco, Rujin Huang, Junji Cao, Urs Baltensperger, Andre S.H. Prévôt, Paul Scherrer Institute
8MG.5 10:45	Assessment of PM Exposures during Commute in Megacity of Karachi, Pakistan. Kamran Khan, HAIDER KHWAJA, Sumayya Saied, Azhar Siddique, Saiyada Masood, Mirza M. Hussain, University of Karachi

8MG.6 11:00	<p>Submicron Aerosol Composition in the World's Most Polluted Megacity: The Delhi Aerosol Supersite Campaign.</p> <p>SHAHZAD GANI, Sahil Bhandari, Sarah Seraj, Dongyu S. Wang, Kanan Patel, Prashant Soni, Zainab Arub, Gazala Habib, Lea Hildebrandt Ruiz, Joshua Apte, University of Texas at Austin</p>
8MG.7 11:15	<p>On Particle-Bound Polycyclic Aromatic Hydrocarbons (PPAH) and Links to Gaseous Emissions in Mexico City.</p> <p>LUIS ANTONIO LADINO, Graciela Raga, Darrel Baumgardner, Universidad Nacional Autónoma de México, Mexico City, Mexico</p>
8MG.8 11:30	<p>Fine Particles in the Megacity of Beijing: Chemical Composition, Sources and Trend Analysis.</p> <p>LIU ZIRUI, Huang Xiaojuan, Xie Yuzhu, Liu Jingyun, Shen Rongrong, Yuesi Wang, Institute of Atmospheric Physics, Chinese Academy of Sciences</p>
8MG.9 11:45	<p>Aerosol Fluxes above Beijing.</p> <p>EIKO NEMITZ, Ben Langford, Chiara Di Marco, Neil Mullinger, Yele Sun, Jian Zhao, Pingqing Fu, Centre for Ecology and Hydrology</p>

WEDNESDAY | 12:00 PM - 1:00 PM

Lunch on Your Own

WEDNESDAY | 11:20 AM - 12:50 PM

Early Career Event with Pizza

WEDNESDAY | 11:30 AM - 12:30 PM

European Aerosol Assembly Board Meeting with Lunch

WEDNESDAY | 12:00 PM - 1:00 PM

AAQR Editorial Board Luncheon

WEDNESDAY | 1:00 PM - 4:30 PM

Technical Tours

WEDNESDAY | 5:00 PM - 9:00 PM

Fun Tours

WEDNESDAY | 6:00 PM - 9:00 PM

University Reunions

WEDNESDAY | 6:00 PM - 9:00 PM

Evening with Industry (TSI / Kanomax / MAGEE / Palas / Handix (AirModus))

THURSDAY

THURSDAY | 8:00 AM - 9:15 AM

Plenary IV

8:00 **Improvement of Inhalation Toxicity Testing for Nanomaterials and Compliance Monitoring for Ambient PM**

Jun Kanno, Japan Bioassay Research Center;
Chuen-Jinn Tsai, National Chiao-Tung University

Moderator: Chak K. Chan, City University of Hong Kong

9:00 **Mercer Award, Friedlander Dissertation Award, GAeF PhD Award**

Jeff Collett, Colorado State University;
Birgit Wehner, Leibniz Institute for Tropospheric Research, Leipzig, Germany

THURSDAY | 9:00 AM - 3:45 PM

Exhibits Open

THURSDAY | 9:15 AM - 9:45 AM

Coffee Break

THURSDAY | 9:45 AM - 11:45 AM

Session 9: Platform

9AC

AEROSOL CHEMISTRY IX - SECONDARY ORGANIC AEROSOLS: PHASE AND PHASE SEPARATIONS | ROOM 275

Claudia Mohr and Yue Zhang, chairs

9AC.1
9:45

Liquid-Liquid Phase Separation in Organic Aerosol Particles Investigated by Environmental X-Ray Microscopy.

Jan-David Förster, Christopher Pöhlker, Haijie Tong, Markus Ammann, Florian Ditas, Jörg Raabe, Ulrich Pöschl, David Walter, Benjamin Watts, MEINRAT O. ANDREAE, Max Planck Institute for Chemistry

9AC.2
10:00

Connecting Phase Separations in Ambient Secondary Organic Aerosol and Ammonium Sulfate Particles to Relative Humidity and Temperature.

ANDREW AULT, Amy Bondy, Sydney Niles, Peter Peterson, Little Josie, Rashad Pace, Ryan Moffet, Rachel O'Brien, Bingbing Wang, Alexander Laskin, University of Michigan

9AC.3
10:15

Measurements of Acid and Organic Partitioning between Phase-separated SOA/ Aqueous Phases.

BENJAMIN DEMING, Paul Ziemann, University of Colorado

9AC.4
10:30

Uptake of Dicarboxylic Acid Molecules by -Pinene Secondary Organic Material and Implications for the Role of Particle Phase State and Relative Humidity.

YUEMEI HAN, Jianhui Ye, Zhaoheng Gong, Pengfei Liu, Suzane de Sá, Karena McKinney, Scot T. Martin, Harvard University

9AC.5
10:45

The Effects of Aerosol-Phase State and Chemical Composition on Multiphase Chemistry Leading to Isoprene-Derived Secondary Organic Aerosol Formation.

YUE ZHANG, Yuzhi Chen, Andrew Lambe, Nicole Olson, Ziyang Lei, Rebecca Craig, Manjula Canagaratna, Jordan Krechmer, Zhenfa Zhang, Avram Gold, Timothy Onasch, John Jayne, Douglas Worsnop, Cassandra Gaston, Joel A. Thornton, William Vizuete, Andrew Ault, Jason Surratt, Boston College; Aerodyne Research, Inc.

9AC.6
11:00

Refining Equilibrium Partitioning: Detailed Chemical Composition, Viscosity and Diffusion Measurements.

KELLY PEREIRA, Alfie Mayhew, Grazia Rovelli, Young-Chul Song, Aleksandra Marsh, Stephen Ingram, Simon O'Meara, David Topping, Jonathan P. Reid, Jacqueline F. Hamilton, University of York

9AC.7
11:15

Chemical Composition and Implications for Viscosity of SOA at Low Temperature.

CLAUDIA MOHR, Wei Huang, Cheng Wu, Yvette Gramlich, Harald Saathoff, Aki Pajunoja, Annele Virtanen, Stockholm University

9AC.8
11:30

Secondary Organic Aerosol (SOA) Phase State-Relevant Properties: Evaluation of Impacts in the Southern Great Plains Using CMAQ.

ANNMARIE CARLTON, Ying Li, Manabu Shiraiwa, James Smith, Sergey Nizkorodov, Marc Carreras-Sospedra, Donald Dabdub, University of California, Irvine

9AM

AEROSOL MODELING VII | ROOM 260

Matt Berg and Pai Liu, chairs

9AM.1
9:45

Estimation of Human Exposure to Near Road Emission Sources Using a Hybrid Modeling Framework.

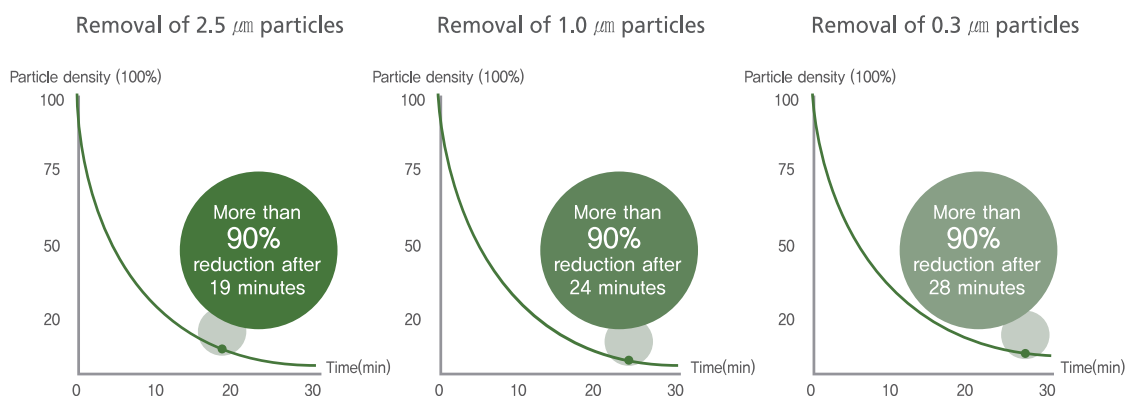
Fatema Parvez, KRISTINA WAGSTROM, University of Connecticut

Electrostatic precipitator air purifier with 99% microdust removal properties!



DUSTZERO PM1.0 emits negative ions which charge even the smallest PM1.0 microdust particles, which then are sucked into the precipitator by the powerful centrifugal fan.

【 Results of removal capacity test 】



Microdust / pine pollen

*Research / KIMM (Korea Institute of Machinery and Materials)

9AM.2 10:00	Dynamic Health Risk Mapping and Predictive Modelling of the Impact of Meteorological Fluctuations on Air Pollution in Yangtze River Delta. JIE YANG, University of Nottingham Ningbo China
9AM.3 10:15	Modelling the Effects of Natural and Anthropogenic Sources of Aerosols on Weather. PAUL MAKAR, Wanmin Gong, Craig A. Stroud, Ayodeji Akingunola, Balbir Pabla, Jack Chen, Radenko Pavlovic, Michael Moran, Chris McLinden, Junhua Zhang, Jason Milbrandt, David Sills, Katherine Hayden, Shao-Meng Li, Philip Cheung, Qiong Zheng, Environment and Climate Change Canada
9AM.4 10:30	Forecasting Smoke Transport and Its Impact on Weather in High-Resolution (3km) HRRR-Smoke Model over the US. RAVAN AHMADOV, Eric James, Georg Grell, Curtis Alexander, Steven Albers, Ivan Csiszar, Marina Tsidulko, Rick Graw, Stuart McKeen, Shobha Kondragunta, Gabriel Pereira, Brad Pierce, Saulo Freitas, CU CIRES- NOAA ESRL
9AM.5 10:45	Characterizing the Climate Impacts of Brown Carbon over California. ANIKENDER KUMAR, Michael Kleeman, Christopher Cappa, Lynn Russell, University of California, Davis
9AM.6 11:00	Simulations for Estimating Dynamic Shape Factors of Aerosol Aggregates. Aniket Talele, Y.S. MAYYA, Jyoti Seth, Indian Institute of Technology Bombay
9AM.7 11:15	Impact of the Assumptions of Soot Nanostructure and Aggregation on Particle Sizing Using Time-Resolved Laser-Induced Incandescence. MADHU SINGH, Randy Vander Wal, The Pennsylvania State University
9AM.8 11:30	How to Make Organic Molecules for New Particle Formation in Atmospheric Models: Recipes from the CERN CLOUD Experiment. HAMISH GORDON, Simone Schuchmann, Roy Lee III Mauldin, Matti Rissanen, Chao Yan, Lukas Fischer, Mario Simon, Martin Heinritzi, Ken Carslaw, CLOUD Collaboration, University of Leeds

9AP	AEROSOL PHYSICS V ROOM 263 Chuji Wang and Mohit Singh, chairs
9AP.1 9:45	Experimental Study of the In-Cloud Electroscavenging. ALEXIS DEPEE, Pascal Lemaitre, Anne Mathieu, Marie Monier, Andrea Flossmann, French Radioprotection and Nuclear Safety Institute

9AP.2 10:00	High Speed Imaging of Rayleigh Breakup of Charged Droplets Levitated in an Electrodynamic Balance. MOHIT SINGH, Neha Gawande, Y.S. Mayya, R.M. Thaokar, Indian Institute of Technology Bombay
9AP.3 10:15	Characterization of Droplets Injected into Hyperbaric Atmospheres by the Flow Blurring® Mechanism. LUIS MODESTO-LÓPEZ, Alfonso Gañán-Calvo, University of Seville
9AP.4 10:30	Capillary Oscillations in the Transient Mode of Flow Focusing: Comparison Between Experimental Measurements and Numerical Results. VICTORIEN MAMET, Michel Matton, Stéphane Gasser, Patrick Namy, Jean-Marc Dedulle, LMGP - Grenoble INP / UGA, DBV Technologies
9AP.5 10:45	"Particle Formation" vs. "Particle Growth": Robust Metric for Determining the Onset of Condensational Growth of Nanoparticles. TINJA OLENIUS, Dominik Stolzenburg, Lukas Pichelstorfer, Paul M. Winkler, Kari Lehtinen, Ilona Riipinen, Stockholm University
9AP.6 11:00	Characterizing the Homogeneous Nucleation of Carbon Dioxide in a Supersonic Laval Nozzle. KAYANE DINGILIAN, Yensil Park, Barbara Wyslouzil, The Ohio State University
9AP.7 11:15	Heterogeneous Nucleation onto Monoatomic Ions and the Role of Stable Pre-nucleation Clusters. Christian Tauber, Paul E. Wagner, Paul M. Winkler, Christopher Hogan Jr., ANNE MAISSER, University of Vienna
9AP.8 11:30	Original Approach for Determining Surface Binding Energy of Particle-adsorbed PAHs Using L2MS Signal Decay. MARIN VOJKOVIC, Dumitru Duca, Yvain Carpentier, Michael Ziskind, Alessandro Faccinotto, Cristian Focsa, Université de Lille

9BA	BIOAEROSOLS II RESEARCH CHALLENGES ROOM 264 Jana Kesevan and Maesheng Yao, chairs
9BA.1 9:45	Bioaerosol Transmission: Experimental Replication of Natural Processes. RICHARD THOMAS, Dstl
9BA.2 10:00	BioAerosol Generation Methods. JAY D. EVERSOLE, Cathy S. Scotto, Naval Research Laboratory
9BA.3 10:15	Understanding the Principles of Bioaerosol Sampling. GEDIMINAS MAINELIS, Rutgers, The State University of New Jersey

9BA.4 10:30	Laboratory Systems for Biological Aerosol Experimentation and Testing. JOSHUA SANTARPIA, Shanna Ratnesar-Shumate, Sandia National Laboratories
9BA.5 10:45	Bioaerosol Sampling in Field surveys. TIINA REPONEN, University of Cincinnati
9BA.6 11:00	Factors Influencing Interpretation of Laser-Induced Fluorescence (LIF) Instruments for Bioaerosol Measurement. J. ALEX HUFFMAN, University of Denver, CO
9BA.7 11:15	Aerosol Dosimetry and Extrapolation between Species. MICHAEL OLDHAM, Altria Client Services LLC
9BA.8 11:30	Conducting Inhalation Exposures Using Bioaerosols; Infectious Microorganisms and Toxins: Concepts and Lessons Learned. ROY BARNEWALL, Battelle, Columbus Ohio

9CA.6 11:00	Brown Carbon at Three Platforms during the Actris-2 Experiment in Summertime in the Po Valley (Italy). STEFANIA GILARDONI, Angela Marinoni, Francesca Volpi, Douglas Orsini, Paolo Cristofanelli, Davide Putero, Matteo Rinaldi, Marco Paglione, Imad El Haddad, Minna Aurela, Julija Pauraitė, Vidmantas Ulevicius, Dimitri Bacco, Vanes Poluzzi, Paolo Bonasoni, ISAC-CNR
9CA.7 11:15	Field Measurements of Black and Brown Carbon Optical Properties from the 2017 Wildfire Season. KATIE FOSTER, Rudra Pokhrel, Matthew Burkhardt, Shane Murphy, University of Wyoming
9CA.8 11:30	Light Absorption by Organic Aerosol from Combustion and Pyrolysis of Fir in Southern China. RANRAN ZHAO, Yongming Zhang, Feng Wang, Qixing Zhang, University of Science and Technology of China

9CA **CARBONACEOUS AEROSOL IV: BROWN CARBON | ROOM 267**
Rawad Saleh and Hallie Boyer, chairs

9CA.1 9:45	Aerosol Optical Properties and Climate Implications of Emissions from Traditional and Improved Cookstoves. GEORGES SALIBA, R. Subramanian, Kelsey Bilsback, Christian L'Orange, John Volckens, Michael Johnson, Allen Robinson, Carnegie Mellon University
9CA.2 10:00	Light Absorption by Carbonaceous Aerosol Emissions from Biomass Cookstoves in India. APOORVA PANDEY, Sameer Patel, Pratim Biswas, Shamsh Pervez, Rajan K. Chakrabarty, Washington University in St Louis
9CA.3 10:15	Estimation of Brown Carbon in PM2.5 Samples from Long-term Networks. XIAOLIANG WANG, Judith Chow, Brandon Daub, Steven Gronstal, L.W. Antony Chen, Mark Green, John Watson, Desert Research Institute
9CA.4 10:30	Pinning Down the Highly Variable Light-absorption Properties of Brown Carbon. RAWAD SALEH, Zezhen Cheng, Khairallah Atwi, University of Georgia
9CA.5 10:45	Comprehensive Chemical Characterization of Brown Carbon Aerosols. Peng Lin, Lauren Fleming, Ying Li, Wing-Sy DeRieux, Julia Laskin, Manabu Shiraiwa, Sergey Nizkorodov, ALEXANDER LASKIN, Purdue University

9IM **INSTRUMENTATION VII: PARTICLE COUNTING & SIZING | ROOM 276**
Siqin He and Chongai Kuang, chairs

9IM.1 9:45	Modification of a Fine Condensation Particle Counter to Rapidly Measure Sub 3 Nanometer Atmospheric Clusters through Pulse Height Analysis. CHONGAI KUANG, Brookhaven National Laboratory
9IM.2 10:00	Calibration and Ambient Measurements of Sub-3 nm Aerosols. HELINA LIPP, Eduard Tamm, Kalju Tamme, Kaupo Komsaare, Urmas Hörrak, Heikki Junninen, University of Tartu
9IM.3 10:15	Comparison of Non-Radioactive Bipolar Charge Conditioners for Particle Ionization. SIQIN HE, Derek Oberreit, Kanomax FMT, Inc.
9IM.4 10:30	Improving Airborne Nanoparticle and Cluster Detection with the Butanol Based Laminar Flow Condensation Nuclei Counters Grimm 5.403 and 5.412. GERHARD STEINER, Manuel Orzan, Ina Nagler, Elena Petrakakis, Mirela Selimovic, Christian Tauber, Frank Tettich, University of Vienna
9IM.5 10:45	A Long-Term Stable High-Temperature Condensation Particle Counter for Application on Raw Automotive Exhausts. MARTIN KUPPER, Michael Kügler, Alexander Bergmann, Martin Kraft, CTR Carinthian Tech Research, Villach, 9524, Austria

9IM.6 11:00	Measurement of Aircraft Engine Soot Emissions using the ESCOM (Engine Soot Compliance Monitor). Timothy Onasch, Richard Miake-Lye, Fred Bacon, Philip Croteau, William Brown, ANDREW FREEDMAN, Aerodyne Research, Inc.
9IM.7 11:15	Experimental Results of a Novel Inverted Drift Tube with Diffusion Auto-Correction for the Characterization of sub 100nm Nanoparticles. XI CHEN, Md Minal Nahin, Carlos Larriba-Andaluz, IUPIUI
9IM.8 11:30	Refinements of a Water-Based Condensation Particle Counter for Detection near 1 nm. Gregory Lewis, Steven Spielman, SUSANNE HERING, Aerosol Dynamics Inc.

9MG	AIR QUALITY IN MEGACITIES: FROM SOURCES TO CONTROL III: CHARACTERIZATION OF PRIMARY AND SECONDARY AEROSOLS I ROOM 274 Luisa Molina and Amara Holder, chairs
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9MG.1 9:45	Secondary Organic Aerosol Formation from Urban Sources: Current Understanding and New Results from WINTER in the NE US. JOSE-LUIS JIMENEZ, Jason Schroder, Patrick Hayes, Joost de Gouw, Viral Shah, Lyatt Jaegle, Pedro Campuzano-Jost, Douglas Day, Benjamin A. Nault, University of Colorado-Boulder
9MG.2 10:00	Airborne Fine Particulate Matter in the Subway System of the Megacity of São Paulo. ADMIR CRÉSO TARGINO, Patricia Krecl, Julián Felipe Segura, Federal University of Technology
9MG.3 10:15	The Impact of Mixing State and Size-resolved Hygroscopicity of Urban Aerosols on CCN Activity in Seoul, Korea. NAJIN KIM, Minsu Park, Seong Soo Yum, Hye Jung Shin, Jong Sung Park, Joon Young Ahn, Yonsei University
9MG.4 10:30	Seasonal Characterization of Organic Nitrogen in Atmospheric Aerosols Using High Resolution Aerosol Mass Spectrometry in Beijing, China. WEIQI XU, Yele Sun, Qingqing Wang, Wei Du, Jian Zhao, Xinlei Ge, Tingting Han, Yingjie Zhang, Wei Zhou, Jie Li, Pingqing Fu, Zifa Wang, Douglas Worsnop, Inst. of Atmospheric Physics, Chinese Academy of Sciences

9MG.5 10:45	Investigation of Organic Aerosol in Delhi, India, using an Extractive Electrospray Ionization Time-of-Flight Mass Spectrometer (EESI-LTOF). Varun Kumar, Deepika Bhattu, Yandong Tong, Veronika Pospisilova, Giulia Stefanelli, Amelie Bertrand, Roberto Cassotto, Rangu Venkata Satish, Pawan Vats, Urs Baltensperger, Dilip Ganguly, Neeraj Rastogi, S.N. Tripathi, Andre S.H. Prévôt, JAY G. SLOWIK, Paul Scherrer Institute
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9MG.6 11:00	Gradients in Concentration and Composition of Sub-Micron PM in a Coastal American City: Downtown Street Canyon Dominates a Large Area Emission Source in Port of Oakland CA. RISHABH SHAH, Ellis Shipley Robinson, Peishi Gu, Joshua Apte, Albert Presto, Carnegie Mellon University
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9MG.7 11:15	PM1 Chemical Characterization in 2015, South of Mexico City, with an Aerosol Chemical Speciation Monitor. DARA SALCEDO, Harry Alvarez-Ospina, Oscar Peralta, Telma Castro, National University of Mexico
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9MG.8 11:30	Exploring the Chemical Composition of Gas and Aerosol Phase Measurements from FIGAERO-ToF-CIMS in Beijing Using Positive Matrix Factorisation. ARCHIT MEHRA, Manjula Canagaratna, Stephen Worrall, Asan Bacak, Thomas Bannan, Michael Priestley, James Lee, Freya Squires, James Hopkins, Rachel Dunmore, Jacqueline F. Hamilton, Eloise Slater, Lisa Whalley, Yele Sun, Pingqing Fu, James Allan, Carl Percival, John Jayne, Douglas Worsnop, Hugh Coe, University of Manchester
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9WA	WORKPLACE AEROSOL I ROOM 265/266 Thomas Peters and Nima A-Mohajer, chairs
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9WA.1 9:45	Towards Better Particle Characterization in Industrial Workplaces. TORUNN ERVIK, Stephan Weinbruch, Dag Gunnar Ellingsen, Yngvar Thomassen, Balázs Berlinger, National Institute of Occupational Health, Norway
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9WA.2 10:00	A Novel Approach for Investigating Workplace Ultrafine Particles Respiratory Deposition. WEI-CHUNG SU, Yi Chen, University of Texas Health Science Center at Houston
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9WA.3 10:15	Effective Density Determination For Workplace Real-Time Monitoring of Ultrafine Aerosols Using An ELPI+. LOÏC WINGERT, Yves Cloutier, IRSST/ETS
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9WA.4 10:30	Physical and Chemical Properties of Particulate Matter in a Chinese Electrolytic Zinc Manufacturing Facility. ZIZHEN MA, Xu Huang, Fuyuan Xu, Ge Zhang, Linhua Jiang, Jingkun Jiang, Lei Duan, Ning Duan, Tsinghua University
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9WA.5 10:45	Exposure of Home Healthcare Workers to Aerosolized Medications: Two-Phase Simulation Study. SERGEY A. GRINSHUPUN, Yousef Elmashae, Katie Ollier, Maija Leppänen, Michael Yermakov, Tiina Reponen, University of Cincinnati
9WA.6 11:00	Sources of Particulate Matter in Mines and Mining Environments. Hilkka Timonen, Joel Kuula, Anssi Arffman, Jenni Alanen, Kimmo Teinilä, Matthew Bloss, Minna Aurela, Laura Salo, Risto Hillamo, Sampo Saari, Pedro Oyola, Felipe Reyes, Yeanice Vasquez, Jorma Keskinen, Topi Rönkkö, Eija Asmi, SANNA SAARIKOSKI, Finnish Meteorological Institute
9WA.7 11:15	Emission and Oxidative Potential of Particulates from Alternating Current Tungsten Inert Gas Welding on Aluminum. JUN WANG, Shalayne Sims, Jacob Bartels, Marcio Bezerra, University of Oklahoma
9WA.8 11:30	Measurements of the Physicochemical Properties of Nanoparticles Produced via Thermal Plasma Spraying Processes in a Precision Machining Workplace. Spyridon Bezantakos, Apostolos Salmatonidis, Mar Viana, GEORGE BISKOS, Université du Littoral Côte d'Opale, Dunkerque, France

THURSDAY | 11:45 AM - 1:15 PM

Session 10: Poster

10AC	AEROSOL CHEMISTRY X: POSTERS EXHIBIT HALL 5 Andrew Ault and Tran Nguyen, chairs
10AC.1 11:45	Formation and Growth of Aerosol from Agricultural Emissions. PHILIP SILVA, USDA - Agricultural Research Service
10AC.2 11:45	Observations of Biogenic New Particle Formation over a Boreal Fen. HEIKKI JUNNINEN, Lauri R. Ahonen, Federico Bianchi, Lauriane Quéléver, Simon Schallhart, Hanna Manninen, Katri Leino, Janne Lampilahti, Stephany Mazon, Jenni Kontkanen, Pavel Alekseychik, Janne Levula, Ivan Mammarella, Timo Vesala, Tuukka Petäjä, Markku Kulmala, University of Tartu
10AC.4 11:45	The Impact of Multiphase Chemistry on Nanoparticle Growth and Composition. MICHAEL J. APSOKARDU, Murray Johnston, University of Delaware

10AC.5 11:45	Formation of Secondary Aerosol and Growth of New Particles in the Ambient Atmosphere: An Experimental Study Using a Dual Smog Chamber System. SPIRO JORGA, Christos Kaltsonoudis, Spyros Pandis, Carnegie Mellon University
10AC.6 11:45	Investigation of New Particle Formation from Aromatic Hydrocarbons: Impact of OH and NOx on Highly Oxidized Multifunctional Compounds. HOUSSNI LAMKADDAM, Mao Xiao, Christopher R. Hoyle, Lubna Dada, Mingyi Wang, Dominik Stolzenburg, Lukas Fischer, Andrea Baccarini, Chuan Ping Lee, Ruby Marten, Imad El Haddad, Josef Dommen, Urs Baltensperger, CLOUD Collaboration, Paul Scherrer Institute
10AC.7 11:45	Recent Advances in Understanding on the Relation between Ion Composition and Ion-induced Nucleation in the Boreal Forest in Southern Finland. CHAO YAN, Clemence Rose, Lubna Dada, Federico Bianchi, Siegfried Schobesberger, Heikki Junninen, Katrianne Lehtipalo, Wei Nie, Tuija Jokinen, Nina Sarnela, Yonghong Wang, Qiaozhi Zha, Olga Garmash, Mikko Sipilä, Tuukka Petäjä, Veli-Matti Kerminen, Mikael Ehn, Markku Kulmala, University of Helsinki, Finland
10AC.8 11:45	SALTENA Campaign: A Comprehensive Study of New Particle Formation (NPF) at Mt. Chacaltaya (5240m A.S.L.) in South America. QIAOZHI ZHA, Diego Aliaga, Otso Peräkylä, Yee Jun Tham, Xuemeng Chen, Joonas Enroth, Liine Heikkinen, Katrianne Lehtipalo, Juha Kangasluoma, Mikael Ehn, Mikko Sipilä, Tuukka Petäjä, Markku Kulmala, Claudia Mohr, Federico Bianchi, University of Helsinki
10AC.9 11:45	Temperature and UV Light Affect HOM Chemistry and Biogenic New Particle Formation. MARIO SIMON, Lubna Dada, Martin Heinritzi, Lukas Fischer, Dominik Stolzenburg, Xucheng He, Chao Yan, Andrea C. Wagner, Andreas Kürten, Jasper Kirkby, Joachim Curtius, Goethe University Frankfurt
10AC.10 11:45	Investigation of Multicomponent New Particle Formation under Urban Atmospheric Conditions in the CLOUD Chamber. MAO XIAO, Christopher R. Hoyle, Lubna Dada, Mingyi Wang, Dominik Stolzenburg, Lukas Fischer, Andrea Baccarini, Chuan Ping Lee, Houssni Lamkaddam, Ruby Marten, Imad El Haddad, Josef Dommen, Urs Baltensperger, CLOUD Collaboration, Paul Scherrer Institute
10AC.11 11:45	Interactions between Aerosol Compositions and Liquid Water Content during Beijing's Haze Episodes at Different Seasons. XIAOXIAO LI, Wei Zhou, Jiming Hao, Jingkun Jiang, Tsinghua University

10AC.12 11:45	Laboratory Investigations of SOA Photolysis. MARIA ZAWADOWICZ, John Shilling, Pacific Northwest National Lab
10AC.13 11:45	Explaining Atmospheric Particle Growth by Organic Vapors of Biogenic and Anthropogenic Origin. CLAUDIA MOHR, Taina Yli-Juuti, Joel A. Thornton, Felipe Lopez-Hilfiker, Anna Lutz, Arto Heitto, Juan Hong, Neil Donahue, Ilona Riipinen, Wei Huang, Cheng Wu, Federico Bianchi, Qiaozhi Zha, Diego Aliaga, Liine Heikkinen, Markku Kulmala, Marcos Andrade, Stockholm University
10AC.14 11:45	Impact of Ammonia on Atmospheric (H₂SO₄)_n(HSO₄⁻) Ions: Thermochemistry and Implications for New Particle Formation. ALEXEY NADYKTO, Jason Herb, Kirill Nazarenko, Fangqun Yu, Moscow State University of Technology; SUNY at Albany
10AC.15 11:45	Effects of Temperature on Nucleated Particles from α-Pinene Ozonolysis Measured by a FIGAERO-Chemical Ionization Mass Spectrometer. QING YE, Mingyi Wang, Victoria Hofbauer, Dexian Chen, Jasper Kirkby, Neil Donahue, CLOUD Collaboration, Carnegie Mellon University
10AC.16 11:45	Tracking Carbon during the Formation of Secondary Organic Aerosol from Alkane Oxidation. JOSHUA MOSS, Abigail Koss, Jesse Kroll, MIT
10AC.17 11:45	The Role of Iodine Emission in the Atmospheric Aerosol Formation. RAVI KUMAR, Multanmodal Modi College, Modinagar-201204 (U.P.), India

10AP	AEROSOL PHYSICS VI: POSTERS EXHIBIT HALL 5 Apoorva Pandey and Chuji Wang, chairs
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10AP.1 11:45	Photopolarimetric Light Scattering to Place Constraints on Dust Properties. GORDEN VIDEEN, Evgenij Zubko, US Army Research Lab
10AP.2 11:45	Dependence of Heterogeneous Nucleation of N-Butanol Vapor on Temperature and Humidity for improved detection of Nanoparticles. CHRISTIAN TAUBER, Gerhard Steiner, Paul M. Winkler, University of Vienna
10AP.3 11:45	Measurement of the Size Distribution of Stable Clusters during Silane Pyrolysis in a Helium Atmosphere. MIGUEL VAZQUEZ PUFLEAU, Yang Wang, Elijah Thimsen, Pratim Biswas, Washington University in St. Louis

10AP.4 11:45	Enhanced Raman Spectroscopy of Individual Aerosol Particles. VASANTHI SIVAPRAKASAM, Matthew B. Hart, Jay D. Eversole, Naval Research Laboratory
10AP.5 11:45	Interpreting the Kinetics of Ballistic-to-Diffusive Transition Using Directional Statistics. PAI LIU, William Heinson, Benjamin Sumlin, Rajan K. Chakrabarty, Washington University in St. Louis
10AP.6 11:45	Experimental Studies on the Charge Distribution of Aerosol Particles from a Fluidized Bed Aerosol Generator. QUN ZHOU, Cai Liang, Lunbo Duan, Xiaoping Chen, Daoyin Liu, Changsui Zhao, School of Energy and Environment, Southeast University
10AP.7 11:45	The Hygroscopicity of Particles That Carry Differing Charges and Their Impact on Tandem Differential Mobility Analyzer Measurements of Biomass Burning Aerosol. CHRISTOPHER OXFORD, Rajan K. Chakrabarty, Brent Williams, Washington University in St. Louis
10AP.8 11:45	Dynamics of Carbon Nanotube Aerogel Formation. Christian Hoecker, Bhalerao Ajinkya, Nikolaos Kateris, Jean de La Verpilliere, Brian Graves, ADAM M BOIES, University of Cambridge, University of Minnesota
10AP.9 11:45	Using Electron Tomography to Better Characterize the Fractal Morphology of Aerosol Aggregates. CHENCHONG ZHANG, Pai Liu, William Heinson, Qing Li, Jingkun Jiang, Rajan K. Chakrabarty, Washington University in St. Louis
10AP.10 11:45	Mobility of Nanofiber, Nanorod and Non-spherical Nano-agglomerates in Gases. LIN TIAN, Goodarz Ahmadi, Jiyuan Tu, RMIT University

10BA	BIOAEROSOLS III SOURCES AND FATE: POSTERS EXHIBIT HALL 5 Kumfer, chairs
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10BA.1 11:45	Measuring Changes in Bioaerosol Fluorescence over Time with the WIBS. ELIZABETH CORSON, Jonathan Eshbaugh, JHU/APL
10BA.2 11:45	Presence and Variability of Bioaerosols in Three Multi-Apartment Residential Buildings with Different Energy Efficiency in the Northeastern US. NIRMALA THOMAS, Leonardo Calderón, Brian Pavilonis, Zuocheng Wang, Youyou Xiong, MaryAnn Sorensen-Allacci, Deborah Plotnik, Jennifer Senick, Jie Gong, Clinton J. Andrews, Gediminas Mainelis, Rutgers, The State University of New Jersey

10BA.3 11:45	Bacterial and Fungal Aerosol Emissions from Different Land Types. XINYUE LI, Maosheng Yao, Peking University
10BA.4 11:45	The Microbiome in Permanent and Portable High School Classrooms. Juan Pedro Maestre, Wiley Jennings, Ellen Braden, Richard Corsi, KERRY KINNEY, The University of Texas at Austin
10BA.5 11:45	A Clinic Table to Prevent Aerosol Transmission Based on Wind Curtain. HUA QIAN, Jin Ye, Jichen Ji, Xiaohong Zheng, Southeast University
10BA.6 11:45	Bioaerosols Abundance Variability through Cloud Decks across Multiple Environments during BOAS Campaign. ARNALDO NEGRON-MARTY, Natasha De Leon-Rodriguez, Natasha Hodas, Matthew Coggon, Kelvin Bates, Armin Sorooshian, Hafliði Jonsson, John Seinfeld, Richard Flagan, Kostas Konstantinidis, Athanasios Nenes, Georgia Institute of Technology
10BA.7 11:45	Long-Range Transport of Biogenic Aerosols Monitored at the Cape Verde Atmospheric Observatory (CVAO) from 2015 to 2016. DOUGLAS MORRISON, Martin Gallagher, David Topping, Ian Crawford, Michael Flynn, Katie Read, Paul Kaye, Virginia Foot, University of Manchester
10BA.8 11:45	A Study on Biological Constituents of PM1 over Semiarid Region of Indo-Gangetic Basin. ROHINI SINGH, Ranjit Kumar, DEI, Dayalbagh, Agra, India
10BA.10 11:45	Modulation and Resilience of the Metabolome of Pseudomonas graminis, a Cloud Bacterium, Facing H2O2 Atmospheric Stress. Nolwenn Wirgot, Marie Lagree, Mounir Traikia, Cyril Jousse, Isabelle Canet, Martine Sancelme, Pierre Amato, Ludovic Besaury, Bernard Lyan, ANNE MARIE DELORT, Université Clermont Auvergne
10BA.11 11:45	Impact of Composting Recycled Manure Solids on Bioaerosols in Dairy Farms. KARINE DUQUETTE-LOZEAU, Joanie Lemieux, Valérie Létourneau, Sébastien Fournel, Caroline Côté, Stéphane Godbout, Caroline Duchaine, CRIUCPQ, Université Laval, Canada
10BA.12 11:45	Influence of Occupant Characteristics on Indoor Microbiome. DAHAE SEONG, Shamia Hoque, USC
10BA.13 11:45	Ice Nuclei Activity of Fungal Spores Collected in the Metropolitan Area of São Paulo, Brazil. ANA PAULA MENDES EMYGDIO, Dulcilena de Matos Castro Silva, Ricardo Matheus Pires, Fabio Luiz Teixeira Goncalves, Maria de Fatima Andrade, University of Sao Paulo

10BA.14 11:45	Investigation of Bioaerosol Charge Levels Indoors Using the Rutgers Electrostatic Passive Sampler (REPS). SYDONIA MANIBUSAN, Gediminas Mainelis, Rutgers, The State University of New Jersey
10BA.16 11:45	The Effects of Alpha-pinene and Toluene in the Presence of UV, Ozone, and Humidity on Bioaerosols in a Laboratory Rotating Drum. SEAN KINAHAN, Don Collins, Yong-Le Pan, Aimable Kalume, Matthew Tezak, Keiko Salazar, Gabriel Lucero, Steven Storch, Cathryn Reyna, Joshua Santaripa, Sandia National Laboratories
10BA.17 11:45	Spore Aerosol Viability Dependence on Radiation Exposure. MATTHEW B. HART, Jozsef Czege, Cathy S. Scotto, Jana Kesavan, Vipin Rastogi, Frank Handler, Jay D. Eversole, Naval Research Laboratory
10BA.18 11:45	Spatial and Longitudinal Influences on Accurately Predicting a Microbiome "Biofingerprint". ANDREW HOISINGTON, Christopher Stamper, Katherine Bates, Christopher Lowry, Air Force Institute of Technology
10BA.20 11:45	Aerosolization of Biological Aerosols: Principles and Pitfalls. GEDIMINAS MAINELIS, Huajun Zhen, Taewon Han, Rutgers, The State University of New Jersey
10BA.21 11:45	Surgical Smoke: A Literature Review. CATHERINE ALMQUIST, Miami University
10BA.23 11:45	Bioaerosol Characterisation in the Transportation Environment. IAN COLBECK, Nikoletta Grydaki, Corinne Whitby, University of Essex, Colchester, CO4 3SQ, UK
10BA.24 11:45	Optimize Aerosolized Generation and Characterization of Bacterial Spores. KAVINDRA KUMARAGAMA, Jing Qian, Shane Rogers, Shantanu Sur, Suresh Dhaniyala, Clarkson University, Potsdam, NY, USA
10BA.25 11:45	Variability of PM and Bioaerosols at Diverse Indoor and Outdoor Locations in a Southern Tropical Indian Region. HEMA PRIYAMVADA, Priyanka C., Raj Kamal Singh, Akila M., Ravikrishna R., Sachin S. Gunthe, Clarkson University

10CA		CARBONACEOUS AEROSOL V: POSTERS EXHIBIT HALL 5 Cheol Jeong and Yongjie Li, chairs
10CA.1 11:45	A Differential Photoacoustic Spectroscopic (DPAS) Technique for Aerosol Light Absorption Measurement in the Presence of Light-absorbing Gaseous Species. ZHENHONG YU, Gregory Magoon, William Brown, James Assif, Richard Miake-Lye, David Liscinsky, Aerodyne Research, Inc.	
10CA.2 11:45	Laboratory-Generated Coated Soot Aerosols with Tunable Physical, Chemical and Optical Properties Using a Cast Generator and a Portable Micro Smog Chamber. Michaela N. Ess, Alejandro Keller, Adam Kimak, Heinz Burtscher, KONSTANTINA VASILATOU, METAS	
10CA.3 11:45	The Density, Morphology, and Internal Structure of Biomass Burning Brown Carbon Aerosol. BENJAMIN SUMLIN, Christopher Oxford, Bongjin Seo, Robert Pattison, Brent Williams, Rajan K. Chakrabarty, Washington University in St. Louis	
10CA.4 11:45	Filter-based Aerosol Absorption Measurements in Wildfire Smoke: A Comparison Between Field and Laboratory Measurements. JAMES LAING, Daniel Jaffe, Arthur J. Sedlacek, Hanyang Li, Gavin McMeeking, Andrew May, University of Washington, Bothell, WA, USA	
10CA.5 11:45	Measuring Light Absorption by Organic Aerosols: Correction Factors for Solvent Extraction Based Photometry Techniques. NISHIT SHETTY, Apoorva Pandey, Wei Min Hao, Rajan K. Chakrabarty, Washington University in St. Louis	
10CA.6 11:45	Spectral Measurements of Mass Absorption Cross-Section of Flare-Generated Black Carbon. BRADLEY CONRAD, Melina Jefferson, Brian Crosland, Matthew Johnson, Carleton University	
10CA.7 11:45	Temperature Effects on Carbonaceous Particle Formation during Ethylene Pyrolysis in a Laminar Flow Reactor. JUNYU MEI, Mengda Wang, Xiaoqing You, Chung K. Law, Tsinghua University	
10CA.8 11:45	Use of Electron Tomography to Analyze the Actual Primary Particles Distribution and Agglomerate Morphology of Soot. Alberto Baldelli, STEVEN ROGAK, Una Trivanovic, University of British Columbia	

10CA.10 11:45	Quantitative Comparison of Correction Algorithms Applied Filter-Based Black Carbon Measurements during the FIREX Campaign. HANYANG LI, Gavin McMeeking, Andrew May, The Ohio State University
10CA.11 11:45	Influence of Aging on Mass Absorption Coefficient and Single Scattering Albedo of SOA: Oxidation vs. Organo-nitrate Formation. STEPHEN ZIMMERMAN, Justin Dingle, Alexander Frie, Justin Min, Roya Bahreini, University of California, Riverside
10CA.12 11:45	UV-Vis-IR Spectral Complex Refractive Indices and Optical Properties of Brown Carbon Aerosol from Biomass Burning. YULI W. HEINSON, Benjamin Sumlin, Nishit Shetty, Apoorva Pandey, Brent Williams, Rajan K. Chakrabarty, Washington University in Saint Louis
10CA.13 11:45	Fractal Morphology of Black Carbon Aerosol Enhances Absorption on the Thermal Infrared Wavelengths. WILLIAM HEINSON, Rajan K. Chakrabarty, Washington University in St. Louis
10CA.14 11:45	A New Method for the Determination of BC Mass Concentration from Light Absorption. YINGLI YU, Chunsheng Zhao, Wangshu Tan, Peking University
10CA.15 11:45	Effects of Thermodenuding on the Morphology and Optical Properties of Soot. NISHIT SHETTY, Apoorva Pandey, Yuli W. Heinson, Rajan K. Chakrabarty, Washington University in St. Louis

10CB		COMBUSTION III: POSTERS EXHIBIT HALL 5 R. Subramanian, chair
10CB.1 11:45	Investigating the Effect of Varying Ethanol Content and Driving Conditions on FFV-GDI Vehicle Emissions with the Addition of an Anthropogenic Surrogate. PATRICK ROTH, Jiacheng Yang, Ayla Moretti, Thomas D. Durbin, David R. Cocker III, Georgios Karavalakis, Akua Asa-Awuku, University of California, Riverside	
10CB.4 11:45	Effects of Adding Gaseous Fuels on the Pollutant Emissions from a Diesel Engine. LIN-CHI WANG, Wen-Jhy Lee, Hsi-Hsien Yang, Jau-Huai Lu, Cheng Shiu University	

10CB.5 11:45	Characteristics of Particulate Matter and Particle-bound Metal Emissions from a Diesel Engine Generator Fueled with Waste Cooking Oil-based Biodiesel Blended with Butanol and Acetone. Jen-Hsiung Tsai, Jia-Twu Lee, Ciao-Jhen Guo, Kuo-Lin Huang, Sheng-Lun Lin, SHUI-JEN CHEN, National Pingtung University of Science and Technology
10CB.7 11:45	Combustion Conditions Leading to Primary Brown Carbon Emissions in Diesel Exhaust and Biomass Combustion. Vilhelm B. Malmborg, Axel C. Eriksson, Sandra Török, Christina Andersen, Louise Gren, Christoffer Boman, Robert Lindgren, Kirsten Kling, Sam Shamun, Martin Tunér, Yilong Zhang, Shawn Kook, Per-Erik Bengtsson, JOAKIM PAGELS, Lund University, Sweden
10CB.9 11:45	In-Situ Estimation of Non-Regulated Pollutant Emission Factors in Urban Area With Fleet Composition Characterization. SIMON MARTINET, Yao Liu, Liliane Jean-Soro, Mathieu Goriaux, IFSTTAR
10CB.10 11:45	Secondary Organic Aerosol Formation Potential of Next-Generation Biofuels. BRANDON KING, Platt Ben, Liam Lewane, Pothier Matson, Delphine Farmer, McCormick Robert, Thornton Matthew, Ratcliff Matthew, Shantanu Jathar, Colorado State University
10CB.12 11:45	Large Eddy Simulations of Staged Pressurized Oxy-Combustion. FATMA KARAISSMAIL, Akshay Gopan, Richard Axelbaum, Ismail Celik, Benjamin M. Kumfer, Washington University in St. Louis
10CB.13 11:45	Self-explosion of Lower Alkanes and Alcohols Fine Droplet at the End of Evaporation. Enomoto Hiroshi, Teraoka Yoshikazu, Hieda Noboru, Ota Yoshihide, UESAWA TOMOKI, Kanazawa University
10CB.14 11:45	Deconvolution of Nanoparticle Size Distributions Measured in Combustion Processes. HARTMUT MÄTZING, Werner Baumann, Andrei Bologa, Alexandra Loukou, Nadine Teuscher, Petros Vlavakis, Hans-Joachim Gehrmann, Hanns Rudolf Paur, Dimosthenis Trimis, Dieter Stapf, KIT, Karlsruhe, Germany
10CB.15 11:45	Effect of Soot and Radiation Models in Prediction of Pollutant Formation from Practical Combustion Scenarios. Khaled Mosharraf Mukut, SOMESH ROY, Sebastian Ferreyro Fernandez, Daniel Haworth, Michael Modest, Marquette University
10CB.16 11:45	Structure and Size of Carbon nano-Particles Generated in Laminar Premixed Flames. MARIO COMMODO, Gianluigi De Falco, Patrizia Minutolo, Andrea D'Anna, IRC-CNR, Napoli, Italy

10CB.17 11:45	Effect of Acetone-Butanol-Ethanol (ABE) Addition to Diesel on the Soot Formation and Soot Reactivity. JIANFEI LUO, Yongming Zhang, Qixing Zhang, University of Science and Technology of China
10CB.18 11:45	Investigating the Dependence of Light-absorption Properties of Combustion Carbonaceous Aerosols on Combustion Conditions. ZEZHEN CHENG, Khairallah Atwi, Daniel Tarquinio, Rawad Saleh, University of Georgia
10CB.19 11:45	Characterization of a New MiniCAST Generator (Model 5201 Type BC) Offering Both Diffusion and Premixed Flame Option. MICHAELA N. ESS, Konstantina Vasilatou, METAS
10CB.20 11:45	Prevention of Back Corona Discharge Luminescence in an Electrostatic Precipitator Using Asymmetrical Rectangular AC Voltage. TOMOYA MITSUI, Koji Yasumoto, Akinori Zukeran, Takashi Nakano, Koyu Tsubouchi, Takashi Ogawa, Kanagawa Institute of Technology
10CB.21 11:45	Numerical Analysis of Electric Field Distribution in Wire-to-plate Type Electrostatic Precipitator. KOHEI ITO, Akinori Zukeran, Yoshihiro Kawada, Tomohiro Taoka, Kenji Shibata, Kanagawa Institute of Technology
10CB.22 11:45	Investigation of Power Absorption on Combustion of Carbon Black Using Microwave. SOMA TOGUCHI, Akinori Zukeran, Hiroyuki Toyozumi, Takashi Inui, Kanagawa Institute of Technology
10CB.23 11:45	Development of Diesel PM Combustion Reactor using Plasma Assisted Catalysis. HITOMI KAWAKAMI, Takashi Inui, Hideyuki Nishida, Hirotaka Miyasita, Yoshiyasu Ehara, Fuji Electric Co.
10CB.24 11:45	Particle Behavior Analysis of Re-entrainment Phenomenon in Electrostatic Precipitator. YOSHIYASU EHARA, Hirotaka Miyasita, Satoshi Kokubu, Hitomi Kawakami, Takashi Inui, Hideyuki Nishida, Tokyo City University
10CB.25 11:45	Identification of Packaging Waste and Catalytic Soot Removal Powder Tracers in Masonry Heaters using Ash and Filter Analyses. MAREK MAASIKMETS, Hanna Lii Kupri, Alar Konist, Erik Teinemaa, Estonian Environmental Research Centre

10CB.26 11:45	Application of Fisher Ratio and Principal Component Analysis for Identification of Unique Features in Complex Combustion-Emission Samples. CHRISTOS STAMATIS, Lindsay Hatch, William Lichtenberg, Georgios Karavalakis, Patrick Roth, Jiacheng Yang, Kelley Barsanti, University of California, Riverside
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10DU	COMBUSTION-GENERATED AEROSOLS: THE DESIRABLE AND UNDESIRABLE III: POSTERS EXHIBIT HALL 5
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10DU.1 11:45	Early Stage Sub-Micron Particle Formation during Pulverized Coal Combustion in Two-Stage Flat Flame Burner. DISHANT KHATRI, Adewale Adeosun, Akshay Gopan, Zhiwei Wang, Richard Axelbaum, Washington University in St. Louis
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10DU.3 11:45	Operating Characteristics of Residential Wood Heaters for Emission Measurement. REBECCA TROJANOWSKI, Thomas Butcher, George Wei, Yusuf Celebi, Jake Lindberg, Brookhaven National Laboratory
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10DU.4 11:45	Semi-Volatile Organic Compounds in Fresh and Laboratory-Aged Biomass Burning Aerosols. DEEP SENGUPTA, Vera Samburova, Chiranjivi Bhattarai, Michealene Iaukea-Lum, Adam Watts, Hans Moosmuller, Andrey Khlystov, Desert Research Institute
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10DU.5 11:45	Chemical Composition of Cookstove Emissions: Laboratory Tests and Real-World Use of Traditional and Improved Stoves. ALEXANDRA LAI, Ming Shan, Sierra Clark, Ellison Carter, Kun Ni, Hongjiang Niu, Xudong Yang, Jill Baumgartner, James Schauer, University of Wisconsin-Madison
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10DU.6 11:45	An Investigation of the Optical Properties of Particulate Matter Emitted by Residential Biomass Hydronic Heaters. JAKE LINDBERG, Patricia Fritz, Nicole Vitillo, Brian P. Frank, David Guerrieri, Marilyn Wurth, Gil H. LaDuke, Shida Tang, Thomas Wainman, Nathan Walz, Todd Crawford, New York State Dept. of Health
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10HA	HEALTH RELATED AEROSOLS I: POSTERS EXHIBIT HALL 5 Ting Fang and Kamaljeet Kaur, chairs
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10HA.1 11:45	Chemical Analysis and DTT Assay of Powder Form of Atmospheric Particles Collected by Cyclone. YOSHIHIRO TERUI, Daiki Shishido, Aoi Kanemaru, Tsubomi Sato, Tomoaki Okuda, Keio University
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10HA.2 11:45	Aerosolization and Characterization of Cellulose Nanomaterials. BON KI KU, M. Eileen Birch, G.J. Deye, Centers for Disease Control and Prevention, NIOSH
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10HA.3 11:45	Inflammatory Effects of Fine Aerosols Generated from Rapid Concrete Failure. LUPITA MONTOYA, Harish Gadde, Wyatt Champion, Ning Li, Mija Hubler, University of Colorado Boulder
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10HA.4 11:45	The Particle Size Distribution Measurements of Aerosol Generated by Common Inhalers and Nebulisers. ONDREJ MISIK, Frantisek Lizal, Miloslav Belka, Jakub Elcner, Jan Jedelsky, Jan Tuhovcak, Miroslav Jicha, Brno University of Technology
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10HA.5 11:45	Characterization of Airborne Fibrous Particle Deposition on Screens with Different Configurations. BON KI KU, G.J. Deye, Centers for Disease Control and Prevention, NIOSH
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10HA.6 11:45	A Pilot Study of Air Quality in Puerto Rico after Hurricane María. NIRMALA THOMAS, Leonardo Calderón, Shahnaz Alimokhtari-V, Samuel Barreto Rios, Benjamin Bolaños-Rosero, Carlos M. Rodríguez-Minguela, Mayra Roubert, Clifford Weisel, Brian Buckley, Gediminas Mainelis, Rutgers, The State University of New Jersey
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10HA.7 11:45	Comparison of PAHs Levels and Health Risks in China, India and the United States. FENGLIN HAN, Jie Zhang, Qi Ying, Jianlin Hu, Sri Kota, Hongliang Zhang, Louisiana State University
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10HA.8 11:45	Pollution Characteristics and Health Risk Assessment of Heavy Metals in Particulate Matter in Changchun, Northeast China. LI NA, Sun Siyue, Han Weizheng, Kang Chunyu, Jilin Jianzhu University, China
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10HA.9 11:45	Physico-Chemical Characterization of Particles and Volatile Organic Compounds Emitted by Electronic Cigarettes and Heat-Not-Burn Products, Compared to a Reference Tobacco Cigarette. ARI SETYAN, Tobias Bühner, Florence Leuzinger, Woranan Netkueakul, Michael Patrick, Jing Wang, ETH Zürich / Empa, Switzerland
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10HA.10 11:45	Aerosol Characterization of High-powered Electronic Nicotine Delivery Systems (ENDS). SUVAJYOTI GUHA, Seyed Ahmad Reza Dibaji, Samantha Wickramasekara, Berk Oktem, Matthew R. Myers, U.S. Food and Drug Administration, CDRH
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10HA.11 11:45	Characterization of Spray Aerosols Generated from Particle-Free Solutions and Nano-Particle Containing Suspensions (Nanoparticles). LARS HILLEMANN, Paul Bergelt, Frank Bierkandt, Sandra Wagener, Jutta Tentschert, Emilia Visileanu, Hannes Hinterbichler, Helfried Steiner, Günther Brenn, Felipe Goni de Cerio, Joseph D. Brain, Michael Stintz, Technische Universität Dresden
10HA.12 11:45	Characterization of Heterogeneous Oxidation Products of Polycyclic Aromatic Hydrocarbons Using Online Mass Spectrometry. JAMES ROWE, Christopher Lim, Jesse Kroll, MIT
10HA.13 11:45	Gas-particle Partitioning of Nicotine in Mainstream Cigarette Smoke. Edward John, Derek Mariner, Chuan Liu, Kevin McAdam, Sandor Dóbbé, JOHN MCAUGHEY, British American Tobacco
10HA.14 11:45	Characterisation of Cigarette, E-cigarette and Heated Tobacco Product Aerosols. CANER U. YURTERI, Ross Cabot, John McAughey, British American Tobacco
10HA.16 11:45	Flavors, Nicotine, E-Liquid Composition and Coil Temperature Impacts Size Distribution of Electronic Cigarette-Emitted Particles. ARIANE LECHASSEUR, Simon Altmejd, Nathalie Turgeon, David Brunet, Caroline Duchaine, Mathieu Morissette, Quebec Heart and Lung Institute - Université Laval
10HA.18 11:45	A Study of Aerosol Concentration and Composition on Cardiovascular Illness at a Semi Urban Site in Delhi. NISAR ALI BAIG, Mohammad Yawar, Kashish Jain, Sagnik Dey, Sandeep Singh, Deepti Kailath, Gazala Habib, IIT-DELHI
10HA.20 11:45	Laboratory Investigation of Oxidation Products from Ozonolysis of Electronic Nicotine Delivery Systems (ENDS) Emissions. CLAIRE FORTENBERRY, Michelle Molina, Walton Sumner, Brent Williams, Washington University in St. Louis

10IM	INSTRUMENTATION VIII: POSTERS EXHIBIT HALL 5 Ryan Sullivan and Allison Aiken, chairs
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10IM.1 11:45	Using Comsol Multiphysics as a Tool to Predict Aerosol Deposition Spot Size of an Electrostatic Precipitator (ESP). CALLE PREGER, Robert T Hallberg, Martin H Magnusson, Lund University
10IM.2 11:45	Evaluation of an Improved CPMA-Electrometer Reference Mass System in Measuring Black Carbon Particles. JOEL CORBIN, Alireza Moallemi, Jason S. Olfert, Fengshan Liu, Kevin Thomson, Gregory Smallwood, Prem Lobo, National Research Council Canada

10IM.3 11:45	Ozone and Absorbing Aerosol Measurements by Ultraviolet Total Ozone Unit (TOU) of FY-3A/B/C. HOUMAO WANG, National Space Science Center, Chinese Academy of Sciences
10IM.4 11:45	Aerosol Deposition in the Sampling Train of PM CEMS. Yu-Mei Kuo, Shi-Bo Wang, Chih-Wei Lin, Sheng-Hsiu Huang, Hsien-Shiow Tsai, CHIH-CHIEH CHEN, National Taiwan University
10IM.5 11:45	Performance Comparison of Field Portable Instruments to the Scanning Mobility Particle Sizer Using Monodispersed and Polydispersed Sodium Chloride Aerosols. EVANLY VO, Matthew Horvatin, Ziqing Zhuang, NIOSH
10IM.6 11:45	Aerosol Metrology for Atmospheric Science and Air Quality: The AEROMET Project. PAUL QUINCEY, Konstantina Vasilatou, Alfred Wiedensohler, Stefan Seeger, Luca Boarino, Petr Klapetek, Kai Dirscherl, Francisco Moreno, Peter Pedersen, Thomas Pedersen, Matjaz Zitnik, Jeanne Malet, Jenny Rissler, Szabina Torok, Markus Fiebig, Maria Ochsenkuehn-Petropoulou, Luca Stabile, Michele Laus, Armin Gross, Burkhard Beckhoff, NPL
10IM.7 11:45	Aerosol Charge Conditioning and the Characterization of a New Soft X-ray Charger. FREDERIK WEIS, Mara Pfeffinger, Maximilian Weiss, Palas GmbH
10IM.8 11:45	Use of Mobile Air Quality Measurements to Investigate Highly Spatially Resolved Particulate Matter Concentrations in Houston. BLAKE ACTKINSON, Henry Wallace, Robert Griffin, Katie Moore, Ramon Alvarez, Grace Lewis, Elena Craft, Kyle Messier, David Miller, Joshua Apte, Rice University
10IM.9 11:45	Using a Differential Mobility Analyzer and an Electrostatic Precipitator in Tandem for Determining Physicochemical Properties of Airborne Particles. SPYRIDON BEZANTAKOS, Maria Katergi, George Biskos, The Cyprus Institute, Nicosia, Cyprus
10IM.10 11:45	Validation and Calibration of Particle Sizers with Test Aerosols. TORSTEN TRITSCHER, Thomas Krinke, Andrea Tiwari, Juergen Spielvogel, Francisco Romay, Stephan Große, Andreas Rudolph, Oliver F. Bischof, TSI GmbH
10IM.11 11:45	Application of New Butanol-based CPCs to City Air Monitoring and Comparative Instrument Characterization. Andrea Tiwari, Jacob Scheckman, Aaron Avenido, Juergen Spielvogel, AXEL ZERRATH, TSI Incorporated

10IM.12 11:45	Methods to Minimize Diffusion Losses for sub-3nm SMPS Measurements. JACOB SCHECKMAN, Modi Chen, Hee-Siew Han, Juergen Spielvogel, TSI Incorporated
10IM.13 11:45	Fourteen Orders of Magnitude of Organic Volatility in One Instrument: The Comprehensive Thermal Desorption Aerosol Gas Chromatograph (cTAG). REBECCA WERNIS, Nathan Kreisberg, Susanne Hering, Allen H. Goldstein, University of California, Berkeley
10IM.14 11:45	Investigating Catalytic Stripper Based System for Measurement of Sub-23 nm Particles from Vehicle Engine Exhaust. MOSTAFIZUR RAHMAN, Adam M Boies, University of Cambridge
10IM.15 11:45	Study on CPC Time Response – Modelling and Measurements. JOONAS ENROTH, Juha Kangasluoma, Frans Korhonen, Joonas Vanhanen, Michel Attoui, Tuukka Petäjä, University of Helsinki
10IM.16 11:45	Experimental and Theoretical Evaluation of Air-Microfluidic MEMS PM Sensing Technologies. IGOR PAPROTNY, Dorsa Fahimi, Omid Mahdavi-pour, Mandana Hajizadehmotlagh, University of Illinois at Chicago

10LC	LOW-COST AND PORTABLE SENSORS IV: POSTERS EXHIBIT HALL 5 Jonathan Thornburg and Arthur Chan, chairs
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10LC.1 11:45	The Impact of Ambient Conditions on the Performance of a Low-cost Air Quality Sensor Package (Koala). XIAOTING LIU, Rohan Jayaratne, Phong Thai, Matthew Dunbabin, Lidia Morawska, Queensland University of Technology
10LC.2 11:45	The National Plan of Environmental Internet of Things Using Widespread Air Quality Sensors in Taiwan. CHIA-PEI CHEN, Yeuh-Bin Wang, Fan-Lun Chen, Kun-Hsing Liu, Bo-Chieh Yang, Shuenn-Chin Chang, Taiwan Environmental Protection Administration
10LC.3 11:45	Design and Optimisation of Low-cost Air Quality Sensor Package (KOALA). XIAOTING LIU, Matthew Dunbabin, Bryce Christensen, Rohan Jayaratne, Phong Thai, Lidia Morawska, Queensland University of Technology
10LC.4 11:45	Evaluating Performance of Low-Cost Optical Particle Counters in Sensing Bioaerosols; an Experimental Chamber Study. PARICHEHR SALIMIFARD, Donghyun Rim, James Freihaut, The Pennsylvania State University

10LC.5 11:45	Evaluation of the Performance of a Lightweight, 3D Printed SMPS. KONSTANTINOS BARMPOUNIS, Anne Maisser, George Biskos, AK LemonLabs Ltd.
10LC.6 11:45	Fluorescence Analysis of Combustion Particulate Matter on Solid State Substrate. GAURAV MAHAMUNI, Gregory Korshin, Igor Novosselov, University of Washington
10LC.7 11:45	Evaluation of Low-Cost Particle Sensors for Ambient Air Quality Monitoring. NUERAILI KUERBANJIANG, Meilu He, Suresh Dhaniyala, Clarkson University
10LC.8 11:45	AQ & U: A Layered Framework for Integrating Sensor Data of Variable Quality and for Engaging Citizens about PM2.5 Exposure. KERRY KELLY, Pierre-Emanuel Gaillardon, Miriah Meyer, Ross Whitaker, Anthony Butterfield, Pascal Goffin, Tom Becnel, Amir Biglari, Tofigh Sayahi, University of Utah
10LC.9 11:45	Ambient Air Quality and Carbon Monoxide Exposure Among School Children in Cap Haïtien, Haiti. AUDREY DANG, Eben Cross, Melissa Chapnick, Lora Iannotti, Joseph Steensma, Jay R. Turner, Brent Williams, Washington University in St. Louis
10LC.10 11:45	A Low-Cost Unipolar Charger for Charged Particle Measurements. MEILU HE, Suresh Dhaniyala, Clarkson University
10LC.11 11:45	Indicating Black Carbon Exposure with a Smartphone App Using Image Analysis. Gang Chen, Mengxuan Cai, Bruce Urch, Frances Silverman, Yushan Su, ARTHUR W. H. CHAN, University of Toronto
10LC.12 11:45	Evaluation of Wearable Low-Cost Particulate Matter Sensors. Ryan Chartier, JONATHAN THORNBURG, RTI International
10LC.13 11:45	Evaluating the Transferability of Low-Cost Sensor Calibration between Different Regions and Spatial and Temporal Variation in Air Quality in Hartford, CT. Kyle Terracciano, Fatema Parvez, Carl Malings, Rebecca Tanzer, R. Subramanian, KRISTINA WAGSTROM, University of Connecticut
10LC.14 11:45	Comparison Experiment of Low Cost Sensors for Aerosol and Gasses at Dem Athens. Prodromos Fefatzis, Stergios Vratolis, Evangelia Diapouli, KONSTANTINOS ELEFTHERIADIS, NCSR Demokritos, Athens, Greece

10LC.15 11:45	Toward the Development of a Portable Single-Particle Fluorescence Spectrometer for Inexpensive Analysis of Bioparticles Collected on a Substrate. BENJAMIN E. SWANSON, Donald R. Huffman, J. Alex Huffman, University of Denver, CO
10LC.16 11:45	Open-source Aerosol Modelling: Electrical Charging and Transport with Applications in Low-cost Sensing. ROBERT NISHIDA, Nene Yamasaki, Adam M Boies, Simone Hochgreb, University of Cambridge
10LC.18 11:45	Taking Ambient Air Monitoring to the Next Level - Multiple Applications with the Fidas® Technology for Fine and Ultrafine Particles Measurements. FREDERIK WEIS, Stefan Hoge Kamp, Leander Mölter, Maximilian Weiss, Palas GmbH
10LC.19 11:45	Using Low-Cost Particulate Matter Sensors to Monitor Photovoltaic Panel Soiling. SARAH TOTH, Michael Hannigan, Marina Vance, University of Colorado Boulder
10LC.20 11:45	Seasonal Concentrations of PM2.5 and PM10 in Borovoye, Kazakhstan Using Low-Cost and Well-Reference PM Monitors. MEHDI AMOUEI TORKMAHALLEH, Aigerim Jaxybayeva, Soudabeh Gorjinezhad, Chemical and Aerosol Research Team, Nazarbayev University

10MG	AIR QUALITY IN MEGACITIES: FROM SOURCES TO CONTROL IV: POSTERS EXHIBIT HALL 5 Phil Hopke and Lupita Montoya, chairs
10MG.1 11:45	Chemical Composition of Ambient PM2.5 and PM10 for an Industrial City, Ghaziabad, India. LOVLEEN GUPTA, Ramya Sunder Raman, Gazala Habib, IIT Delhi
10MG.3 11:45	Aerosol Chemistry at an Urban Site of Delhi: During Winter Fog Campaign. DEEWAN S. BISHT, Atul K. Srivastava, Sachin Ghude, Dilip Chate, P.D. Safai, P. Rao, R. Kulkarni, Suresh Tiwari, Indian Institute of Tropical Meteorology
10MG.4 11:45	Urban-Rural Variation of Physical Characteristics of PM2.5 Aerosols and Solar Irradiance over Delhi-NCR. PURNIMA BHARDWAJ, Krishan Kumar, V.K. Jain, Jawaharlal Nehru University
10MG.5 11:45	Comprehensive Analysis of Carbonaceous Gases and Particles in Beijing, 2016. SHUO YANG, Kebin He, Fengkui Duan, Tsinghua University

10MG.6 11:45	Source Apportionment of Absorbing Aerosols (Soot Particles) in Delhi, India during a Highly Polluted Period (Wintertime). SURESH TIWARI, Rajan K. Chakrabarty, Umesh C. Dumka, Atul K. Srivastava, Deewan S. Bisht, Philip K. Hopke, Indian Institute of Tropical Meteorology
10MG.8 11:45	Air Quality Status in India: Chemical Characterization and Source Interpretation of a Few Major Cities. RANJIT KUMAR, DEI, Dayalbagh, Agra
10MG.9 11:45	New Particle Formation and Severe Haze Events in Beijing, China. ROHAN JAYARATNE, Buddhi Pushpawela, Lidia Morawska, Hui Li, Jian Gao, Queensland University of Technology, Brisbane, Australia
10MG.10 11:45	Characterization of Polycyclic Aromatic Hydrocarbons (PAHs) in Fine Particulate Matter (PM2.5) in Urban New York. HAIDER A KHWAJA, Zafar Aminov, Wen Yuan, Mirza M. Hussain, Shannon Foote, Wadsworth Center, University at Albany
10MG.12 11:45	Concentrations and Fluxes of Black Carbon in Beijing Using Single Particle Soot Photometry Measurements. RUTAMBHARA JOSHI, Dantong Liu, James Allan, Hugh Coe, Michael Flynn, Ben Langford, Eiko Nemitz, Neil Mullinger, Freya Squires, Adam Vaughan, James Lee, Yele Sun, Pingqing Fu, Simone Kotthaus, University of Manchester
10MG.13 11:45	Exposure Profiles and Related Health Risks of Benzene Toluene and Xylene at Two Different Microenvironments of a Terai Region in North India. AMIT MASIH, St. Andrew's College, Gorakhpur, India
10MG.14 11:45	Formation and Characteristics of Secondary Aerosols in an Industrialized Environment during Cold Seasons. Yangzhou Wu, XINLEI GE, Junfeng Wang, Mindong Chen, Nanjing University of Information Science and Technology
10MG.15 11:45	Study of Influence of Rain on Ambient PM in Indian Cities. SWETHA PENDYALA, Sreekanth Bojjagani, Rakesh Kumar, Virendra Sethi, IIT Bombay
10MG.16 11:45	Variations of PM2.5 Chemical Components and Its Source Apportionment during Winter Season from 2013 to 2017 in Beijing of China. HEZHONG TIAN, Panyang Shao, Huanjia Liu, Bobo Wu, Weizhao Liang, Shuhan Liu, School of Environment, Beijing Normal University
10MG.17 11:45	Winter Time Aerosol Size Distribution Study Across Three Sites in Delhi. Suneeti Mishra, S.N. TRIPATHI, Deepika Bhattu, Varun Kumar, Suresh Tiwari, Atul K. Srivastava, Deewan S. Bisht, IIT Kanpur

10MG.18 11:45	Ambient Particle Formation and Growth in Mexico City. LUCIA CAUDILLO, Dara Salcedo, Oscar Peralta, Telma Castro, National University of Mexico
10MG.20 11:45	Composition and Characteristics of NR-PM1 Using HR-TOF-AMS over a Big Urban City of Western India. ATINDERPAL SINGH, Rangu Venkata Satish, Neeraj Rastogi, Physical Research Laboratory, Ahmedabad, India
10MG.21 11:45	Investigating the PM2.5 and PM10 Concentrations over the Atmosphere of Iran and Its Major Cities Using Satellite Observations. Zhuldyz Darynova, Hamed Sharifi, Soudabeh Gorjinezhad, MEHDI AMOUEI TORKMAHALLEH, Chemical and Aerosol Research Team, Nazarbayer University

10RA	REMOTE/REGIONAL ATMOSPHERIC AEROSOL VI: POSTERS EXHIBIT HALL 5 Ari Setyan and Jianhuai Ye, chairs
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10RA.1 11:45	Aerosol Optical Absorption Properties at a High Mountain Site in the Western Mediterranean. Jose Nicolás, Nuria Galindo, Ramón Castañer, Eduardo Yubero, Javier Crespo, Carlos Pastor, FRANCO LUCARELLI, Giulia Calzolari, Silvia Nava, Miguel Hernández University, Elche, Spain
10RA.2 11:45	Sources for Atmospheric Aerosol at Oliktok Point, Alaska. JANEK UIN, Gunnar Senum, Stephen Springston, Brookhaven National Laboratory
10RA.3 11:45	Airborne Atmospheric Aerosol Measurement System. YONG-HEE PARK, Kang-Ho Ahn, Hanyang University, R. of Korea
10RA.4 11:45	Observation of New Particle Formation and Growth for Rural Southwestern New York State. JOSEPH P. MARTO, James Schwab, Fangqun Yu, Gan Luo, University at Albany, SUNY
10RA.5 11:45	Comparison of Desert Aerosol Optical Characteristics of Ouarzazate (Morocco) and Seville (New Mexico). Abdelouahid Tahiri, MOHAMMED DIOURI, Jamal Barkani, Atmospheric Physic, LME, University of Oujda, Morocco

10RA.6 11:45	Short-interval Aerosol Water-soluble Inorganic Ions Observed under the Influence of Upslope Wind, Transported Biosmoke, and Fog at Mountain Lulin, Taiwan. CHUNG-TE LEE, Wei-Ren Chen, Shih-Yu Chang, Charles C.K. Chou, Neng-Huei Lin, National Central University, Taiwan
10RA.7 11:45	Organic Nitrogen in Aerosols at a Forest Site in Southern Appalachia. XI CHEN, Mingjie Xie, Michael Hays, Eric Edgerton, Donna Schwede, John Walker, US Environmental Protection Agency
10RA.8 11:45	Simulation of Marine Aerosols over the East China Sea Using WRF/CMAQ Modeling System. Mingjie Kang, PENGFEI WANG, Pingqing Fu, Hongliang Zhang, Louisiana State University
10RA.9 11:45	Concentrations and Fluxes of Water Soluble Inorganic Aerosol Components above Tropical Rainforest. Robbie Ramsay, Chiara Di Marco, Mathew Heal, Matthias Sörgel, Meinrat O. Andreae, Paulo Artaxo, Alex Araujo, Marta Sá, EIKO NEMITZ, Centre for Ecology and Hydrology
10RA.10 11:45	Characterization of Aerosol Size Distributions and Optical Properties in the Canadian High Arctic using Surface and Columnar Observations. PATRICK HAYES, Samantha Tremblay, Norman O'Neill, Jai Chaubey, AboEl-Fetouh Yasmin, Rachel Chang, Felicia Kolonjari, Sangeeta Sharma, Richard Leitch, Pierre Fogal, Université de Montréal
10RA.11 11:45	Chemical Composition of Ultrafine Particles in the Amazon Basin During GoAmazon2014/5. HAYLEY GLICKER, James Smith, Scot T. Martin, Suzane de Sá, University of California, Irvine
10RA.12 11:45	Ambient Fine Particle Trace Elements over Van Vihar National Park, Bhopal, India and an Assessment of Associated Potential Health Risks. JAYANT NIRMALKAR, Samresh Kumar, Ramya Sunder Raman, Indian Institute of Science Education and Research Bhopal
10RA.13 11:45	Measurement of Aerosol Flux Using UAV in Goseong, South Korea. Hee-Sang Kim, KANG-HO AHN, Hee-Ram Eun, Yong-Hee Park, Woo-Young Kim, Hanyang University, R. of Korea
10RA.14 11:45	Retrievals of Aerosol and Cloud Optical Characteristics over a Site in Indo-Gangetic Plains from Ground-Based Radiometer. SNEHA SUNIL, Padmakumari B., Indian Institute of Tropical Meteorology, India

10RA.15 11:45	Single Particle Analysis of Samples Collected During the Actris-2 Field Campaign at the Mt. Cimone Station. TYLER CAPEK, Swarup China, Daniel Veghte, Angela Marinoni, Douglas Orsini, Claudio Mazzoleni, Michigan Technological University
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10SA	SOURCE APPORTIONMENT I: POSTERS EXHIBIT HALL 5 Alexander Frie and Célia Alves, chairs
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10SA.1 11:45	Use of Specific Primary and Secondary Organic Markers for PM Source Apportionment Based on Positive Matrix Factorization (PMF). Deepchandra Srivastava, Olivier Favez, Emilie Perraudin, Jean-Luc Besombes, Franco Lucarelli, Laurent Alleman, Grazia Maria Lanzafame, Sophie Tomaz, Jean-Luc Jaffrezo, Benjamin Golly, Nicolas Bonnaire, Valerie Gros, Eric Villenave, ALEXANDRE ALBINET, INERIS
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10SA.3 11:45	Physicochemical Characteristics and Source Apportionment of PM2.5 in an Inland City of Baoji, China. ZHOU BIANHONG, Li Meijuan, Fang Ni, Zhang Zhangquan, Liu Suixin, Baoji University of Arts and Sciences
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10SA.4 11:45	Assessing the PM2.5 Imbalance between a Far and Near-Road Location: High Temporal Frequency Source Apportionment and the Role of Black Carbon. UWAYEMI SOFOWOTE, Robert Healy, Yushan Su, Jerzy Debosz, Michael Noble, Anthony Munoz, Cheol H. Jeong, Jon M. Wang, Nathan Hilker, Greg J. Evans, Philip K. Hopke, EMRB, Ontario Ministry of the Environment and Climate Change
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10SA.5 11:45	An Improved Approach to Resolve Sources of Organic Aerosol by Combining Offline and Online Ambient Measurements. DEEPCHANDRA SRIVASTAVA, Olivier Favez, Jean-Eudes Petit, Yunjiang Zhang, Uwayemi Sofowote, Philip K. Hopke, Nicolas Bonnaire, Emilie Perraudin, Valerie Gros, Eric Villenave, Alexandre Albinet, INERIS
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10SA.6 11:45	Particulate matter in the Northwest of the Iberian Peninsula: A one-year study. Fernanda Oduber, Carlos Blanco-Alegre, Ana Isabel Calvo, Amaya Castro, Roberto Fraile, Teresa Nunes, CÉLIA ALVES, University of Aveiro
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10SA.7 11:45	Source Apportionment of PM2.5 Using Hourly Measurements of Elemental Tracers and Major Constituents in an Urban Environment: Investigation of Time Resolution Influence. QIONGQIONG WANG, Liping Qiao, Min Zhou, Shuhui Zhu, Stephen Griffith, Li Li, Jian Zhen Yu, Hong Kong University of Science & Technology
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10SA.8 11:45	Emission Characteristics of PM2.5 and Trace Gases from Household Wood Burning in Guanzhong Plain, Northwest China. YONG ZHANG, Jie Tian, Junji Cao, Wenjie Wang, Haiyan Ni, Suixin Liu, Zhenxing Shen, Institute of Earth Environment, Chinese Academy of Sciences
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10SA.9 11:45	Application of Positive Matrix Factorisation to the Source Identification of Pcd/Fs in Urban Air, South Korea. EUNHWA JANG, Taewuk Jeong, Nana Yoon, Seungryul Jeong, Busan Metropolitan Institute of Health and Environment
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10SA.10 11:45	Influence of Future Emission Reductions on Source Apportionment of Organic Aerosol in the Houston Region. BONYOUNG KOO, Alan Dunker, Greg Yarwood, Ramboll
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10SA.11 11:45	Impacts of Hazardous Metals and PAHs in the Ambient Air from Local and Regional Sources and Exceeded Cancer Risks in Taipei city. CHIN-YU HSU, Shih-Min Wang, Tzu-Ting Yang, Jyh-Larng Chen, Hung-Che Chiang, Yuh-Shen Wu, Yu-Cheng Chen, National Health Research Institutes, Taiwan
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10SA.12 11:45	Long-Term Field Observations of Aerosol Chemical Composition in the Boreal Forest. LIINE HEIKKINEN, Mikko Äijälä, Matthieu Riva, Krista Luoma, Tuukka Petäjä, Douglas Worsnop, Mikael Ehn, University of Helsinki
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10SA.13 11:45	Impact of Environmental Policies and the Economy on Changes in Criteria Air pollutants Concentrations and Particulate Matter Compositions in New York State during 2005-2016. Stefania Squizzato, Mauro Masiol, David Q. Rich, PHILIP K. HOPKE, University of Rochester, Rochester, 14642, NY, USA
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10SA.15 11:45	Comparison of Ambient Aerosol Sources at Rural and Suburban Background Sites in Central Europe. OTAKAR MAKEŠ, Petr Vodi ka, Jaroslav Schwarz, Vladimír Ždímal, Institute of Chemical Process Fundamentals of the CAS, v.v.i
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10SA.16 11:45	Seasonal Variations in Source Apportionment of the Redox Activity of Urban Fine Particulate Matter in Athens, Greece. SINA TAGHVAEE, Mohammad Sowlat, Christopher Lovett, Konstantinos Eleftheriadis, Evangelia Diapouli, Manos Manousakas, Constantinos Sioutas, University of Southern California
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10SA.17 11:45	PM2.5 Source Apportionment Using a Hybrid Environmental Receptor Model. LUNG-WEN ANTONY CHEN, Junji Cao, University of Nevada, Las Vegas
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10SA.18 11:45	Impact of Emissions from Ports of Los Angeles and Long Beach on the Oxidative Potential of Ambient PM_{0.25} Measured across the Los Angeles County. AMIRHOSEIN MOUSAVI, Mohammad Sowlat, Farimah Shirmohammadi, Sina Hasheminassab, Andrea Polidori, Martin Shafer, James Schauer, Constantinos Sioutas, University of Southern California	10SA.26 11:45	Responses of Aerosol Mass Spectra to Temperature Related Tree Stress. KRISTINA PLAUSKAITE, Julija Pauraitė, Steigvilė Bycenkiene, Algirdas Augustaitis, Vitas Marozas, Gintautas Mozgeris, Vidmantas Ulevicius, SRI Center for Physical Sciences and Technology
10SA.19 11:45	Strontium and Lead Stable Isotopes as Tracers of PM_{2.5} in Northern India. RACHEL YORK-MARINI, Swati Sharma, Gazala Habib, Brian Majestic, University of Denver	10SA.27 11:45	Influence of Traffic Emissions on Chemical Composition of Particles in Helsinki, Finland. MINNA AURELA, Kimmo Teinilä, Sanna Saarikoski, Jarkko Niemi, Harri Portin, Pasi Aalto, Liisa Pirjola, Hilikka Timonen, Finnish Meteorological Institute
10SA.20 11:45	Temporal Variability of Submicron Organic Aerosol PMF Factor Mass Spectra During the Houston Aerosol Characterization and Health Experiment. NANCY SANCHEZ, Henry Wallace, Benjamin Schulze, Rivkah Gardner-Frolick, James Flynn, Barry Lefer, Robert Griffin, Rice University	10SA.28 11:45	Regional Air Pollution Transport and Its Influence to Pollution Hot Spot in the Czech Republic. Jana Kozáková, Petr Vodička, Petra Pokorná, Lucie Ondráčková, Jakub Ondráček, Jan Hovorka, Kamil Kůrka, Pavel Mikuška, Pavel Moravec, JAROSLAV SCHWARZ, Institute of Chemical Process Fundamentals of the CAS, v.v.i
10SA.21 11:45	Investigation of Seasonal Sources of Secondary Organic Aerosol in Switzerland Using Extractive Electrospray Ionization Time-Of-Flight Mass Spectrometry (EESI-TOF). GIULIA STEFENELLI, Veronika Pospisilova, Felipe Lopez-Hilfiker, Kaspar Rudolf Dällenbach, Martin Rigler, Christoph Hueglin, Yandong Tong, Urs Baltensperger, Andre S.H. Prévôt, Jay G. Slowik, Paul Scherrer Institut	10SA.29 11:45	Analysis of Particulate Atmospheric Matter Samples Collected with High Time Resolution: Some Examples of Recent Applications. FRANCO LUCARELLI, Giulia Calzolari, Massimo Chiari, Silvia Nava, Roy M. Harrison, Zongbo Shi, Di Liu, Bill Bloss, Van Tuan Vu, University of Florence and INFN Florence, Italy
10SA.22 11:45	Assessment of Residential Wood Combustion Influences on Air Quality in a Suburban Area From Eastern Europe. LUMINITA MARMUREANU, Cristina Marin, Alexandru Dandocsi, Simona Andrei, National Institute of R&D for Optoelectronics	10SA.30 11:45	Contribution of Primary and Secondary Particles to Mode-Segregated Aerosol Particle Number Concentrations in Four European Cities. IOAR RIVAS, Cristina Reche, David Beddows, David Green, Leena Järvi, Christoph Hueglin, Hilikka Timonen, Gary W. Fuller, Jarkko Niemi, Markku Kulmala, Roy M. Harrison, Andrés Alastuey, Xavier Querol, Frank J. Kelly, King's College London
10SA.23 11:45	A Study about the Characterization of Organic Aerosol Composition and Sources in the Mediterranean Region Based on ToF-ACSM Measurements. ATHINA-CERISE KALOGRIDIS, Maria Gini, Konstantinos Eleftheriadis, NCSR Demokritos, Athens, Greece	10SA.31 11:45	Advanced Receptor Models as a Tool to Improve the Knowledge of Aerosol Emission Sources at a Hot-Spot Pollution Site (Milan – Italy). ROBERTA VECCHI, Vera Bernardoni, Alessandro Bigi, Giulia Calzolari, Miriam Elser, Paola Fermo, Alice Forello, Franco Lucarelli, Dario Massabò, Silvia Nava, Andrea Piazzalunga, Rosaria Erika Pileci, Paolo Prati, Sara Valentini, Gianluigi Valli, University of Milan & INFN-Milan (Italy)
10SA.24 11:45	Estimation and Sources of Cloud Water SO₄ and NO₃ Aerosols from Rainwater over High Altitude Station. YANG LIAN, P.S.P. Rao, G. Pandithurai, IITM, Pune	10TO AEROSOL TOXICOLOGY I: POSTERS EXHIBIT HALL 5 Ting Fang and Kamaljeet Kaur, chairs	
10SA.25 11:45	Long-term Characterization and Source Apportionment of Carbonaceous Aerosols over Five Sites in Northern India. DEEPIKA BHATTU, Jay G. Slowik, Francesco Canonaco, Imad El Haddad, S.B. Tiwari, Purushottam Kumar, Shashi Tiwari, Rangu Venkata Satish, Neeraj Rastogi, Atul K. Srivastava, Deewan S. Bisht, Suresh Tiwari, Dilip Ganguly, S.N. Tripathi, Urs Baltensperger, Andre S.H. Prévôt, Paul Scherrer Institute		
		10TO.2 11:45	Partitioned Particulate Data and Health Risk Quantification of Metal Content in Mixed Residential Areas of Northern India. AJAY TANEJA, DR. B.R.A. University, Agra, India

10TO.3 11:45	Size-resolved Endotoxin and Toxicity of Ambient Particles in Beijing and Switzerland. YANG YUE, Haoxuan Chen, Ari Setyan, Miriam Elser, Maria Dietrich, Jing Li, Ting Zhang, Xiangyu Zhang, Yunhao Zheng, Jing Wang, Maosheng Yao, Peking University
10TO.4 11:45	Differential Toxicities of Airborne Fine Particulate Matter from Various Sources: A New Health Index for Monitoring Health Effects. MINHAN PARK, Hungsoo Joo, Kwangyul Lee, Myoseon Jang, Sang Don Kim, Injeong Kim, Lucille Joanna Borlaza, Heung-Bin Lim, Han-Jae Shin, Kyu Hyuck Chung, Yoon-Hyeong Choi, Sun Gu Park, Min-Suk Bae, Ji Yi Lee, Hangyul Song, Eunbi Lee, Enrique Cosep, Wajih Ur Rehman, Daeun Kim, Kihong Park, GIST
10TO.5 11:45	Characteristics and Health Impacts of Particulate Matters Emitted from A Typical Container Ship. DI WU, Qing Li, Xiang Ding, Jianfeng Sun, JianMin Chen, Fudan University
10TO.6 11:45	Impact of Vehicular Load on Toxicity Potential of Ambient Air by the Road-side in Northern Indian City. SHUBHAM RATHI, Anubha Goel, Indian Institute of Technology Kanpur
10TO.7 11:45	Toxicity of Particles Generated from a Consumer Fused Deposition Modeling 3d Printer Using Animal, Cellular and Acellular Models. QIAN ZHANG, Michal Pardo, Jenny P.S. Wong, Aika Davis, Marilyn Black, Yinon Rudich, Rodney J. Weber, Georgia Institute of Technology
10TO.8 11:45	In Vivo Toxicity of Soot Can Be Predicted from Both Surface Area Dose and in Vitro Assays. OTMAR SCHMID, Tobias Stoeger, Helmholtz Zentrum Munchen, Comprehensive Pneumology Center
10TO.9 11:45	Novel Atmospheric Sampling Method for Determination of 10 Carbonyls in Electronic Cigarette Aerosols Using LC-MS/MS. PHILIP KUEHL, Yongquan Lai, Larry Mallis, Jacob McDonald, Yue Zhou, Steven Belinsky, Lovelace Biomedical, 2425 Ridgecrest Dr. SE, Albuquerque, NM
10TO.10 11:45	Reducing Toxicity of Welding Fume Particles by Amorphous Silica Encapsulation. RYAN WARD, Trevor Tilly, Sarah Robinson, Arantzazu Eiguren Fernandez, Tara Sabo-Attwood, Chang Yu Wu, University of Florida

10WA	WORKPLACE AEROSOL II: POSTERS EXHIBIT HALL 5 Jun Wang and Chih-Hsiang Chien, chairs
10WA.1 11:45	Characterization of Nanometer-Sized Oil Mist Generated in Metal Machining Process. MORIAKI IWASAKI, Kojiro Hirai, Kanta Fukumori, Hidenori Higashi, Takafumi Seto, Kanazawa University
10WA.2 11:45	Investigation of the Feasibility of Workplace On-Site Ultrafine Particle Respiratory Deposition Measurement. YI CHEN, Wei-Chung Su, University of Texas Health Science Center at Houston
10WA.3 11:45	Release of Respirable Fibrous Dusts during Abrasive Machining and Fatigue Testing of Carbon-Fiber Composites. DAPHNE BÄGER, Nico Dziurawitz, Judith Neuhoff, Barbara Simonow, Carmen Thim, Dominic Kehren, Daniela Wenzlaff, Asmus Meyer-Plath, Sabine Plitzko, Federal Institute for Occupational Safety and Health (BAuA)
10WA.4 11:45	Concentration Levels of Airborne Nanoparticles in Taconite Processing. NIMA AFSHAR-MOHAJER, Rebecca Foos, Karl Braun, John Volckens, Gurumurthy Ramachandran, Johns Hopkins School of Public Health
10WA.5 11:45	An Experiment on Energy Consumption in an Indoor Water Spray Humidification Type Cleanroom with One Fluid Nozzles. Su-Bin Park, Won-II Song, KYUNG-HOON YOO, Ji-Seok Yang, Deog-Yong Song, Oh-Myoung Kwon, Jungho Hwang, Korea Institute of Industrial Technology
10WA.6 11:45	An Experiment on Energy Consumption in a High-Tech Electronics Industry Cleanroom with Dual Free-Cooling Heat Source. Su-Bin Park, Won-II Song, KYUNG-HOON YOO, Ji-Seok Yang, Deog-Yong Song, Jungho Hwang, Korea Institute of Industrial Technology
10WA.7 11:45	Link the Oxidation Level between Gaseous and Particulates compounds: A Study on Nitrogen-enriched Stainless Steel Welding and Cutting. JUN WANG, Marcio Bezerra, Jhy-Charm Soo, Shizhen He, Jacob Bartels, University of Oklahoma

THURSDAY 11:45 AM - 1:15 PM	
Boxed Lunch	
THURSDAY 11:45 AM - 1:15 PM	
Historical Instrumentation Demo	
THURSDAY 1:15 PM - 3:15 PM	
Session 11: Platform	
11AC	AEROSOL CHEMISTRY XI - SECONDARY ORGANIC AEROSOLS: AQUEOUS REACTIONS AND FORMATION ROOM 275 Alla Zelenyuk and Martin Breitenlechner, chairs
11AC.1 1:15	Fog Processing of Aerosols Studied using HR-ToF-AMS and a Size Resolved CCN Counter. JAMES SCHWAB, Jie Zhang, Joseph P. Marto, Sara Lance, Yele Sun, University at Albany, SUNY
11AC.2 1:30	Burst of Hydroxyl Radicals in Newly-Formed Cloud Drops. SUZANNE E. PAULSON, Xiaobi Kuang, Jie Rou Chen, David Gonzalez, Peter J. Gallimore, John Scott, UCLA
11AC.3 1:45	Chemical Characterization and Source Apportionment of PM_{2.5} Aerosols in the Capital City "New Delhi" of India. S.N. TRIPATHI, Deepika Bhattu, Navaneeth M. Thamban, Vipul Lalchandani, Suneeti Mishra, Purushottam Kumar, Shashi Tiwari, Nidhi Tripathi, L.K. Sahu, S.B. Tiwari, Rangu Venkata Satish, Neeraj Rastogi, Atul K. Srivastava, Deewan S. Bisht, Suresh Tiwari, R. Sutaria, M. Mohan, Dilip Ganguly, Sudipta Ghosh, Pawan Vats, A. Tobler, Varun Kumar, P. Rai, Veronika Pospisilova, Giulia Stefanelli, IIT Kanpur
11AC.4 2:00	Observed Below-cloud Aerosol Chemical and Physical Properties on Whiteface Mountain, New York during August 2017. JIE ZHANG, Sara Lance, Richard Brandt, Joseph P. Marto, Matthew Ninneman, James Schwab, University at Albany, SUNY
11AC.5 2:15	Formation of Secondary Organic Aerosol (SOA) during Winter in the Eastern United States. MARWA EL-SAYED, Christopher Hennigan, University of Maryland, Baltimore County

11AC.6 2:30	Aqueous-Phase Oxidation Processes of Isoprene Oxidation Products in Liquid Submicron Particles. MARTIN BREITENLECHNER, Kevin Nihill, Joshua L. Cox, Alexander Zaytsev, Jesse Kroll, Frank Keutsch, Harvard University
11AC.7 2:45	Simulating Secondary Organic Aerosol Formation in Cloudwater and Aerosols Using GAMMA 5.1. WILLIAM TSUI, Joseph Woo, V. Faye McNeill, Columbia University
11AC.8 3:00	Direct Observations of the Formation of Isoprene-derived Secondary Organic Aerosol in Ambient Cloud Droplets. ALLA ZELENYUK, David Bell, ManishKumar Shrivastava, Jerome Fast, Joel A. Thornton, Dan Imre, Kaitlyn J. Suski, Larry Berg, John Shilling, Jiumeng Liu, Fan Mei, Jason Tomlinson, Jian Wang, Pacific Northwest National Laboratory

11AP	AEROSOL PHYSICS VII ROOM 265/266 Hans Moosmuller and Fengshan Liu, chairs
11AP.1 1:15	Single Scattering Albedo of Agglomerated Debris Particles and Homogeneous Spheres: A Comparison. HANS MOOSMULLER, Evgenij Zubko, Desert Research Institute
11AP.2 1:30	Comparing Refractive Index Retrievals of Size- and Mass-Selected Particles to Full Distribution Measurements: A Metrology Perspective. JAMES RADNEY, Christopher Zangmeister, National Institute of Standards and Technology
11AP.3 1:45	Modification of Aerosol Properties Due to Relative Humidity. DANIELLE EL HAJJ, Suzanne Crumeyrolle, Marie Choël, Isabelle Chiappello, Université de Lille
11AP.4 2:00	Elastic and Inelastic Scattering of Laser-Trapped Particles: Optically Characterizing Trace Aerosols. PATRICIO PIEDRA, Aimable Kalume, Yong-Le Pan, Gorden Videen, U.S. Army Research Laboratory
11AP.5 2:15	A Novel Mie Theory Inversion Technique for Retrieving the Complex Refractive Index from Optical Measurements. BENJAMIN SUMLIN, William Heinson, Rajan K. Chakrabarty, Washington University in St. Louis

11AP.6 2:30	Towards Statistical Analysis of Aerosol Hygroscopic Properties Using Raman Lidar Measurements. FRANCISCO NAVAS-GUZMÁN, Giovanni Martucci, Maxime Hervo, Martine Collaud Coen, Bertrand Calpini, Valentin Simeonov, Alexander Haefele, Federal Office of Meteorology and Climatology, MeteoSwiss
11AP.7 2:45	Chemical and Optical Properties of Volcanic Ashes: Laboratory Measurements and Remote Sensing Applications. ALEXANDRE DEGUINE, Denis Petitprez, Lieven Clarisse, Hervé Herbin, Université de Lille
11AP.8 3:00	Single Airborne Particle Studies Using Optical Trapping and Manipulations: What We Have and What We Have Not. CHUJI WANG, Zhiyong Gong, Gorden Videen, Yong-Le Pan, Mississippi State University

11BA	BIOAEROSOLS IV BIOAEROSOLS IN THE ENVIRONMENT ROOM 264 Emmanuel Olumayede and Akeisha Owens, chairs
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11BA.1 1:15	Environmental Factors Affecting Biological Aerosols in Houston, TX. JOSHUA SANTARPIA, Sean Kinahan, Don Collins, Yong-Le Pan, Aimable Kalume, Matthew Tezak, Gabriel Lucero, Steven Storch, Cathryn Reyna, Danielle Rivera, Kevin Crown, Sandia National Laboratories
11BA.2 1:30	H2O2 Modulates the Energetic Metabolism of the Cloud Microbiome. ANNE MARIE DELORT, Nolwenn Wirgot, Virginie Vinatier, Martine Sancelme, Laurent Deguillaume, Université Clermont Auvergne
11BA.3 1:45	Revisiting Historical Trials Data on Aerosol Ingress into Buildings and Dispersion. SIMON PARKER, Suzie Abbs, Simon Batchelor, Richard Beedham, Steven Herring, Patrick Rosenvinge, DSTL, UK
11BA.4 2:00	Indoor-Outdoor (I/O) Exchange of Bioaerosols at Various Ventilation Modes. JURATE VIRKUTYTE, Christine Uebel, Kelechi Isiugo, Michael Benjamin, Andrew Maier, Mark T. Hernandez, Sergey A. Grinshpun, Tiina Reponen, University of Cincinnati
11BA.5 2:15	Rapid Bioaerosol Exposure Risk Analysis in Typical Indoor Environments. MINFEI WANG, Haoxuan Chen, Maosheng Yao, Peking University
11BA.6 2:30	UV Intensity Calculated in Approximations of Clusters of Bacteria and Bacterial Spores for Predicting Viability. STEVEN HILL, Dan Mackowski, Frank Handler, Jana Kesavan, Adam Driks, David Doughty, US Army Research Lab

11BA.7 2:45	Real-time Characterization of Airborne Bacteria Using Optofluidic Surface-Enhanced Raman Spectroscopy (SERS) Platform. JAE HEE JUNG, Jungan Choi, Korea Institute of Science and Technology
11BA.8 3:00	Molecular Genetic Staining Techniques for Bioaerosol Analysis in the Amazon Rainforest. MARIA PRASS, Florian Ditas, Isabella Hrabe de Angelis, Bruna A. Holanda, Oliver Lauer, Ovid Krüger, Bettina Weber, Paulo Artaxo, Eckhard Thines, Bernhard M. Fuchs, Meinrat O. Andreae, Ulrich Pöschl, Christopher Pöhlker, Max Planck Institute for Chemistry, Mainz, Germany

11CA	CARBONACEOUS AEROSOL VI: BIOMASS BURNING ROOM 267 Kristina Wagstrom and Stefania Gilardonì, chairs
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11CA.1 1:15	The Ubiquity of Biomass Burning Particles in the Remote Troposphere. GREGORY SCHILL, Karl D. Froyd, Daniel Murphy, Agnieszka Kupc, Christina Williamson, Charles Brock, Huisheng Bian, Mian Chin, Peter Colarco, NOAA ESRL and CIRES, University of Colorado Boulder
11CA.2 1:30	Physical, Chemical, and Optical Properties of Aged Smoke Aerosols and Impacts on Boundary Layer Clouds over the South Atlantic during CLARIFY. JONATHAN TAYLOR, Huihui Wu, Ian Crawford, Keith Bower, James Allan, Dantong Liu, Michael Flynn, Paul Williams, James Dorsey, Tom Choularton, Justin Langridge, Cathryn Fox, Michael I. Cotterell, Nicholas Davies, Kate Szpek, Hugh Coe, Jim Haywood, University of Manchester
11CA.3 1:45	The Effect of Potassium Chloride Addition on the Characteristics of Nascent Soot during Ethylene Pyrolysis. MENGDA WANG, Junyu Mei, Quanxi Tang, Xiaoqing You, Tsinghua University
11CA.4 2:00	Evaluation of Relative Humidity Impacts on Biomass Burning Aerosol Particle Viscosity and Volatility using a Tandem Differential Mobility Analyzer. CHRISTOPHER OXFORD, Rajan K. Chakrabarty, Brent Williams, Washington University in St. Louis
11CA.5 2:15	High-temperature DMA Analysis of Wood Combustion Originated Particles. Heikki Lamberg, OLLI SIPPULA, Jorma Joutsensaari, Mika Ihalainen, Jarkko Tissari, Anna Lähde, Jorma Jokiniemi, University of Eastern Finland
11CA.6 2:30	Speciated Molecular Emission Factors and Volatilities of Biomass Burning Aerosols from Western US Forest Fuels. COTY JEN, Lindsay Hatch, Nathan Kreisberg, Christos Stamatis, Vanessa Selimovic, Robert J. Yokelson, Kelley Barsanti, Allen H. Goldstein, University of California, Berkeley

11CA.7 2:45	Photochemical Aging of Light-Absorbing Biomass Burning Aerosol Selected by Volatility. ELIJAH SCHNITZLER, Rachel Hems, Jonathan Abbatt, University of Toronto, Toronto, Canada
11CA.8 3:00	Seasonality and Sources of Atmospheric Aerosols in Tianjin, China. CHANDRA MOULI PAVULURI, Shuang Wang, Lujie Ren, Pingqing Fu, Cong-Qiang Liu, Tianjin University, Tianjin 300072, China

11CB	COMBUSTION IV ROOM 263 Steve Rogak and Cristian Fosca, chairs
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11CB.1 1:15	Interpretation of UV-Visible Absorption Measurements of Flame-synthesized Carbon Nanoparticles by Molecular Modeling. DONGPING CHEN, Hai Wang, Beijing Institute of Technology
11CB.2 1:30	Polyaromatic Hydrocarbon Dimerization Rates: Results from ReaxFF Molecular Dynamics. EIRINI GOUDELI, Christopher Hogan Jr., University of Minnesota
11CB.3 1:45	Laboratory Flames under Investigation: Identifying Trends in Combustion When Mass Spectrometry Meets Statistical Analysis. Cornelia Irimiea, Alessandro Faccineto, Xavier Mercier, Ismael Kenneth Ortega Colomer, Eric Therssen, CRISTIAN FOCSA, ONERA
11CB.4 2:00	Size, Effective Density, Volatility, Morphology, and Internal Structure of Soot Particles Generated from Large-Scale Turbulent Diffusion Flames. MOHSEN KAZEMIMANESH, Ramin Dastanpour, Alberto Baldelli, Melina Jefferson, Alireza Moallemi, Kevin Thomson, Matthew Johnson, Steven Rogak, Jason S. Olfert, University of Alberta
11CB.5 2:15	Thermophoretic Collection of Soot Samples Taken from within a Co-Flow Diffusion Flame. JOCHEN A.H. DREYER, Maurin Salamanca, Jethro Akroyd, Sebastian Mosbach, Markus Kraft, University of Cambridge
11CB.6 2:30	Soot Nucleation and Chemical Evolution during Combustion. K. Olof Johansson, Farid El Gabaly, Paul Schrader, Matthew Campbell, HOPE MICHELSEN, Sandia National Labs
11CB.7 2:45	Direct On-line Measurement Of Soot Oxidation Reactivity. REINHARD NIESSNER, Alexander Rinkenburger, Christoph Haisch, Technical University of Munich, Germany

11CB.8 3:00	Flame Generated Soot Nuclei: The Asymmetries in Collision Charging evidenced by High-Resolution (API-TOF) Mass Spectrometry. FRANCESCO CARBONE, Manjula Canagaratna, Andrew Lambe, John Jayne, Douglas Worsnop, Alessandro Gomez, Yale University
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11HA	HEALTH RELATED AEROSOLS II ROOM 260 Kerry Kelly and Vishal Verma, chairs
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11HA.1 1:15	Online Analysis of Volatile Organic Gases Released from Bronchial Cells upon Aerosol Deposition as a Diagnostic Tool for Metabolic Processes. LAURE-ESTELLE CASSAGNES, Zaira Leni, Alexander Håland, Liang Zhu, David Bell, Urs Baltensperger, Imad El Haddad, Armin Wisthaler, Marianne Geiser, Josef Dommen, Paul Scherrer Institute
11HA.2 1:30	Deposition of Length-classified Glass Fibers in a Replica of Human Airways. FRANTISEK LIZAL, Miloslav Belka, Jakub Elcner, Jan Jedelsky, Ondrej Misik, Jan Tuhovcak, Miroslav Jicha, Brno University of Technology
11HA.3 1:45	Atmospheric Evolution of Biomass Burning Organic Aerosol: Implications to Oxidative Potential. JENNY P.S. WONG, Maria Tsaarakaki, Irini Tsiodra, Nikolaos Mihalopoulos, Kallioipi Violaki, Maria Kanakidou, Athanasios Nenes, Rodney J. Weber, Georgia Institute of Technology
11HA.4 2:00	Development of a Physiologically Relevant On-Line Chemical Assay to Quantify Aerosol Oxidative Potential. STEVEN J. CAMPBELL, Daniel Lienhard, Battist Uttinger, Angharad Stell, Suzanne E. Paulson, Markus Kalberer, University of Cambridge
11HA.5 2:15	Lipopolysaccharide-mediated PM2.5 Dose-dependent Inflammatory Effects. FANGXIA SHEN, Fobang Liu, Xiangyu Zhang, Jing Li, Kira Ziegler, Ting Zhang, Tianle Zhu, Manabu Shiraiwa, Haijie Tong, Maosheng Yao, Ulrich Pöschl, Kurt Lucas, Beihang University
11HA.6 2:30	Waterpipe Tobacco Smoke Toxicity: The Impact of Pipe Height and Hose Characteristics. KAREN K. BERND, Hannah Stadler, Jenna Reed, Alexander Dawes, Emilie Uffman, Mary Catherine Thomson, Cindy DeForest Hauser, Davidson College
11HA.7 2:45	Environmental Emissions From Cigarettes, E-cigarettes and Heated Tobacco Products. Mark Forster, Jennifer Margham, Carl Vas, Caner U. Yurteri, JOHN MCAUGHEY, British American Tobacco

11HA.8 3:00	Use of Cleaning Sprays: Respiratory and Musculoskeletal Human Health Effects Studied in an Exposure Chamber. KARIN LOVÉN, Jörn Nielsen, Eva Assarsson, Pia Tallving, Monica Kåredal, Aneta Wierzbicka, Camilla Dahlqvist, Catarina Nordander, Yiyi Xu, Anders Gudmundsson, Christina Isaxon, Ergonomics and Aerosol Technology, Lund University, Sweden
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11IM	INSTRUMENTATION IX: CHEMICAL ANALYSIS, CHAMBER METHODS ROOM 276 Amy Sullivan and Weiming Kong, chairs
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11IM.1 1:15	A New Chamber for Studying Aerosol Formation and Aging in Clouds. DON COLLINS, Cassandra Milan, Geoffrey Roest, Jacob Escobedo, Ariana Castillo, Kate Godfrey, Texas A&M University
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11IM.2 1:30	Estimating Secondary Organic Aerosol Yield from Size Distribution Measurements in Chamber Experiments. WEIMENG KONG, Sophia Charan, Yuanlong Huang, Huajun Mai, John Seinfeld, Richard Flagan, California Institute of Technology
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11IM.3 1:45	Effects of Gas-Wall Partitioning in Tubing and Instrumentation on Gas-phase, Aerosol, and Potential Aerosol Measurements. Demetrios Pagonis, Benjamin Deming, Xiaoxi Liu, Ranajit Talukdar, James Roberts, Jordan Krechmer, Brett Palm, Joost de Gouw, Paul Ziemann, JOSE-LUIS JIMENEZ, University of Colorado-Boulder
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11IM.4 2:00	Measuring Thermodesorber Efficacy for Model Black Carbon Systems with Non-Absorbing Coatings. JAMES RADNEY, Christopher Zangmeister, National Institute of Standards and Technology
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11IM.5 2:15	A Novel Method for Multi-component Continuous Real-time Aerosol Monitoring Using FTIR Spectroscopy for In-vivo Studies. WEI TECK TAN, Subash Krishnan, Patrick Vanscheeuwijck, Philip Morris International Research Laboratories Pte Ltd
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11IM.6 2:30	Characterization of Thermal Dissociation Cavity Attenuated Phase Shift Spectroscopy (TD-CAPS) for Total Gas-Phase and Particle-Phase Alkyl Nitrates and Peroxy Nitrates Measurements. GAMZE ERIS, Masayuki Takeuchi, Ezra Wood, David Tanner, Greg Huey, Nga Lee Ng, Georgia Institute of Technology
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11IM.7 2:45	A Quantitative Method to Measure and Speciate Amines in Ambient Aerosol Samples. AMY P. SULLIVAN, Katherine Benedict, Jeffrey Collett, Colorado State University
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11IM.8 3:00	Analysis of Solutions by Fourier Transform Infrared Spectroscopy by Electrospray Film Deposition. ANDREA ARANGIO, Christophe Delval, Giulia Ruggeri, Satoshi Takahama, EPFL
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11LC	LOW-COST AND PORTABLE SENSORS V FERRARA THEATER Andrea Ferro and Sergey A. Grinshpun, chairs
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11LC.1 1:15	Residential PM Measured in 50 Homes Using Low-cost Monitors over Two Heating Seasons in Rochester, NY. Gursumeeran Satsangi, Mauro Masiol, Nadežda Zíková, David C. Chalupa, David Q. Rich, Philip K. Hopke, ANDREA R. FERRO, Clarkson University
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11LC.2 1:30	Results from the Citizen-Enabled Aerosol Measurements for Satellites (CEAMS) Pilot Campaign in Northern Colorado. Bonne Ford, Jeffrey R. Pierce, Eric Wendt, Marilee Long, Shantanu Jathar, Jessica Tryner, Casey Quinn, Lizette Van Zyl, John Mehaffy, Christian L'Orange, Dan Miller-Lionberg, JOHN VOLCKENS, Colorado State University
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11LC.3 1:45	Prevalence and Timing of Indoor PM Emission Events Observed in a Small Cohort of Homes Using Low-Cost Dust Sensors. Ian Longley, Gustavo Olivares, Ayushi Kachhara, Sam Edwards, GUY COULSON, National Inst of Water and Atmospheric Research, New Zealand
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11LC.4 2:00	Low-cost Sensing of Aerosol Active Surface Area by Direct Ultraviolet Photoionization. ROBERT NISHIDA, Tyler J. Johnson, Adam M Boies, John Saffell, Simone Hochgreb, University of Cambridge
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11LC.5 2:15	Mapping Occupational Hazards with a Multi-Hazard Monitor Network in a Heavy-Vehicle Manufacturing Facility. CHRISTOPHER ZUIDEMA, Sinan Sousan, Nima Afshar-Mohajer, Larissa Stebounova, Alyson Gray, Laura Hallett, Xiaoxing Liu, Marcus Tatum, Mitch Fitzpatrick, Oliver Stroh, Campbell Summer, Geb Thomas, Thomas Peters, Kirsten Koehler, Johns Hopkins School of Public Health
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11LC.6 2:30	Low-Cost Particle Sensor for Monitoring Real-Time Protection of Respirators. BINGBING WU, Maija Leppänen, Jonathan Corey, Michael Yermakov, Yan Liu, Sergey A. Grinshpun, University of Cincinnati
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11LC.7 2:45	Deployment of Low-cost Sensors to Assess the Impacts of Portable Air Filtration on Indoor PM_{2.5} and Associated Personal Exposure. KAROLINE JOHNSON, Christina Norris, Tongshu Zheng, Michael Bergin, James Schauer, Junfeng Zhang, Yinping Zhang, Duke University
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11LC.8 3:00	Air Quality Monitoring in the San Juan Metro Area in the Aftermath of Hurricane Maria Using Lower-Cost RAMP Monitors. ELVIS TORRES-DELGADO, R. Subramanian, Aja Ellis, Carl Malings, Rebecca Tanzer, Maité Morales-Medina, Felipe Rivera-Adorno, Darrel Baumgardner, Albert Presto, Stephan Borrmann, Roberto Rondanelli, Mirko Del Hoyo, Rémi Losno, Olga L. Mayol-Bracero, University of Puerto Rico
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11MG	AIR QUALITY IN MEGACITIES: FROM SOURCES TO CONTROL V: CHARACTERIZATION OF PRIMARY AND SECONDARY AEROSOLS II ROOM 274 Hector Jorquera and Nestor Rojas, chairs
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11MG.1 1:15	Quantification of the Rapid Photochemical Secondary Organic Aerosol Production Observed across Megacities around the World. BENJAMIN A. NAULT, Pedro Campuzano-Jost, Douglas Day, Jason Schroder, Donald Blake, Manjula Canagaratna, Joost de Gouw, Jessica Gilman, Tom Hanisco, Greg Huey, B. Thomas Jobson, Bill Kuster, Barry Lefer, Jin Liao, Ilana Pollack, Jeff Peischl, James Roberts, Thomas Ryerson, Alan Fried, Bernhard Rappenglueck, Jochen Stutz, Petter Weibring, Frank Flocke, Jose-Luis Jimenez, et al., University of Colorado-Boulder
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11MG.2 1:30	New Insights into Sources of Organic Aerosol in PM2.5 in a Polluted Urban Environment. YAN ZHENG, Qi Chen, Yaowei Li, Xi Cheng, Ying Liu, Tong Zhu, John Jayne, Douglas Worsnop, Peking University
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11MG.3 1:45	Brown Carbon Aerosol in Urban Xi'an, Northwest China: The Composition and Light Absorption Properties. RUJIN HUANG, Lu Yang, Junji Cao, Institute of Earth and Envir., Chinese Academy of Sciences
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11MG.4 2:00	A Comparison between Satellite Observations and Ground Measurements for Fine Particulate Matter in Karachi, Pakistan. Zhuldyz Darynova, MEHDI AMOUEI TORKMAHALLEH, Haider Khwaja, Chemical and Aerosol Research Team, Nazarbayev University
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11MG.5 2:15	Chemical and Optical Characteristics of PM2.5 at an Urban Site in Gwangju during Spring 2016. JIHYO CHONG, Kwangyul Lee, Tsatsral Batmunkh, Hee-Joo Cho, Hungsoo Joo, Min-Suk Bae, Kihong Park, Gwangju Institute of Science and Technology
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11MG.6 2:30	Particle Concentration and Particle Size Distribution in an Urban and an Agricultural Sites in Colombia. LADY MATEUS, Angela Vargas, Jennifer Marin, Nestor Rojas, German Ruega, Rodrigo Jimenez, Universidad Nacional de Colombia
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11MG.7 2:45	Atmospheric New Particle Formation from Sulfuric Acid and Amines in a Chinese Megacity. Lei Yao, Olga Garmash, Federico Bianchi, Jun Zheng, Chao Yan, Jenni Kontkanen, Heikki Junninen, Stephany Mazon, Mikael Ehn, Pauli Paasonen, Mikko Sipilä, Mingyi Wang, Xinke Wang, Shan Xiao, Hangfei Chen, Yiqun Lu, Bowen Zhang, Dongfang Wang, QingYan Fu, Fuhai Geng, Li Li, Hongli Wang, Liping Qiao, LIN WANG, et al., Fudan University
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11MG.8 3:00	Submicron Aerosol at a Receptor Site in New Delhi: Interpreting Sources and Their Origin. SAHIL BHANDARI, Shahzad Gani, Dongyu S. Wang, Kanan Patel, Sarah Seraj, Prashant Soni, Zainab Arub, Gazala Habib, Joshua Apte, Lea Hildebrandt Ruiz, University of Texas at Austin
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THURSDAY | 3:15 PM - 3:45 PM

Coffee Break

THURSDAY | 3:45 PM - 4:30 PM

Grand Challenge Summary

3:45	Workshop organizers present results to all conferees who wish to attend and get feedback for the final report Christopher Sorensen, Kansas State University; Richard Flagan, California Institute of Technology; David Pui, University of Minnesota; Junji Cao, Chinese Academy of Sciences; Yoshio Otani, Kanazawa University; Urs Baltensperger, Paul Scherrer Institute; Y.S. Mayya, Indian Institute of Technology-Bombay
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THURSDAY | 4:30 PM - 5:30 PM

Meet Aerosol Pioneers 2

THURSDAY | 4:30 PM - 5:30 PM

Working Group Chairs 2019 Technical Program Meeting

THURSDAY | 5:30 PM - 6:30 PM

AAAR Business Meeting

THURSDAY | 6:30 PM - 10:00 PM

IAC Banquet

FRIDAY

FRIDAY | 8:00 AM - 9:15 AM

Plenary V

8:00	<p>On the Thermodynamics and Kinetics of Atmospheric Aerosol Formation</p> <p>Ilona Riipinen, Stockholm University</p> <p>Moderator: Nicole Riemer, University of Illinois at Urbana-Champaign</p>
9:00	<p>Fissan-Pui-TSI Award, Student Poster Competition Awards, Fine Particle Art Prizes</p> <p>Pratim Biswas, Washington University in St. Louis; Andy Grieshop/Shunsuke Nakao, North Carolina State University/Clarkson University; Marit Meyer, NASA</p>
9:10	<p>Concluding Remarks and Preview for 2019</p> <p>Pratim Biswas, Washington University in St. Louis; Sally Ng, Georgia Institute of Technology</p>

FRIDAY | 9:15 AM - 9:45 AM

Coffee Break

FRIDAY | 9:45 AM - 11:45 AM

Session 12: Platform

12AC	<p>AEROSOL CHEMISTRY XII - CHEMISTRY IN THE FIELD ROOM 275</p> <p>Sarah Styler and Alex Lee, chairs</p>
12AC.1 9:45	<p>Distribution of Organic Aerosols (OA) during the NASA ATmospheric Tomography (ATom) Campaigns: Chemical Removal and Aging as a Function of Photochemical Age.</p> <p>JOSE-LUIS JIMENEZ, Pedro Campuzano-Jost, Benjamin A. Nault, Jason Schroder, Douglas Day, Joseph Katich, Joshua P. Schwarz, Nicola Blake, Donald Blake, Bruce Daube, Roisin Commene, Steven Wofsy, Eric Ray, Katherine Travis, Colette Heald, Simone Tilmes, Alma Hodzic, Huisheng Bian, Peter Colarco, Mian Chin, Anna Hodshire, Jack Kodros, Jeffrey R. Pierce, University of Colorado-Boulder</p>

12AC.2 10:00	<p>Production of Secondary Organic Aerosol from the Interaction Between the Urban Pollution from Manaus and Natural Biogenic VOCs.</p> <p>PAULO ARTAXO, Scot T. Martin, Meinrat O. Andreae, Christopher Pöhlker, Henrique Barbosa, Luciana Rizzo, Luciana Rizzo, Samara Carbone, Christiane Schulz, Johannes Schneider, University of Sao Paulo</p>
12AC.3 10:15	<p>The Role of Biological Particles in the Amazon Rainforest.</p> <p>SWARUP CHINA, Susannah Burrows, Marje Prank, Daniel Veghte, Bingbing Wang, Johannes Weis, Natalie Mahowald, Daniel Knopf, Mary Gilles, Alexander Laskin, Pacific Northwest National Laboratory</p>
12AC.4 10:30	<p>Photochemical Aging and Transformation of Dissolved Organic Matter in Atmospheric Aqueous Phase.</p> <p>QI ZHANG, Lu Yu, Wenqing Jiang, University of California, Davis</p>
12AC.5 10:45	<p>An Anthropogenic Source of Organo-nitrate from Alberta Oil Sands Emissions.</p> <p>ALEX LEE, Max Adam, John Liggio, Shao-Meng Li, Megan Willis, Jonathan Abbatt, Travis Tokarek, Charles Odame-Ankrah, Jennifer Huo, Hans Osthoff, Kevin Strawbridge, Jeff Brook, National University of Singapore</p>
12AC.6 11:00	<p>A Multi-Site Chemical Characterization of Organic Aerosol Demonstrates Extensive Variability in Molecular-Level Composition.</p> <p>DREW GENTNER, Jenna Ditto, Emily Barnes, Peeyush Khare, Taekyu Joo, Masayuki Takeuchi, Gamze Eris, Nga Lee Ng, Alexander Bui, Robert Griffin, Yale University</p>
12AC.7 11:15	<p>Chemistry and Photochemistry at the Surface of Tomorrow's Urban Particulate Matter.</p> <p>SARAH STYLER, Maya Abou-Ghanem, Stephanie Schneider, Zhihao Chen, Ming Lyu, Brett Wickware, Jonathan Abbatt, Patrick Milner, Arthur Duarte de Marins Costa, Jeffery Kwasny, University of Alberta</p>
12AC.8 11:30	<p>The Role of Criegee Intermediates in Secondary Sulfate Aerosols Formation in Nocturnal Power-Plant Plumes in South Eastern USA.</p> <p>Daphne Meidan, Steven S. Brown, YINON RUDICH, Weizmann Institute of Science</p>

12AP	<p>AEROSOL PHYSICS VIII ROOM 265/266</p> <p>Christopher Sorensen and Rajan Chakrabarty, chairs</p>
12AP.1 9:45	<p>Scaling Laws for Light Absorption by Atmospheric Black Carbon Aerosol.</p> <p>RAJAN K. CHAKRABARTY, William Heinson, Washington University in St. Louis</p>

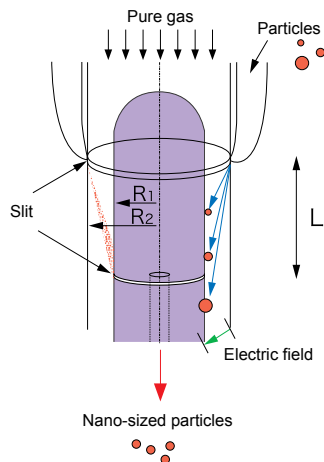
12AP2 10:00	Properties and Mixing State of Refractory Black Carbon over the Amazon Basin. BRUNA A. HOLANDA, Christopher Pöhlker, Henrique Barbosa, Joel Brito, Samara Carbone, Yafang Cheng, Florian Ditas, Jeannine Ditas, Thomas Klimach, Christoph Knote, Luiz Machado, Jing Ming, Daniel Moran-Zuloaga, Mira L. Pöhlker, Maria Prass, Jorge Saturno, Hang Su, David Walter, Qiaoqiao Wang, Paulo Artaxo, Ulrich Pöschl, Meinrat O. Andreae, Max Planck Institute for Chemistry, Mainz, Germany	12BA.2 10:00	Variation of Microbial Community and Activity in PM2.5 in Beijing, China. RUI DU, Weishan Ren, Pengrui Du, Hanlin Chen, Sujian Zhang, University of Chinese Academy of Sciences
12AP3 10:15	Morphology and Mobility Diameter of Carbonaceous Aerosols during Agglomeration and Surface Growth. EIRINI GOUDELI, Georgios Kelesidis, Sotiris E. Pratsinis, University of Minnesota	12BA.3 10:15	Atmosphere Bioaerosols in Different Micro- Environments of Megacity of Lagos, Nigeria: Relationship between Ambient Concentrations, Volatile Organic Compounds and Weather Parameters. EMMANUEL OLUMAYEDE, Chukwebe Ojiodu, Federal University Oye - Ekiti
12AP4 10:30	The Effect of Electric Field Induced Alignment on the Electrical Mobility of Fractal Aggregates. JAMES CORSON, George Mulholland, Michael Zachariah, University of Maryland	12BA.4 10:30	Online Bioaerosol and Dust Measurements during the Aqaba Research Cruise around the Arabian Peninsula. TOBIAS KÖNEMANN, Nicole Savage, Charlotte Beall, Emilio Rodriguez-Caballero, Florian Ditas, Marcel Dorf, Hartwig Harder, Jos Lelieveld, David Walter, Bettina Weber, Petya Yordanova, Meinrat O. Andreae, J. Alex Huffman, Ulrich Pöschl, Christopher Pöhlker, Max Planck Institute for Chemistry
12AP5 10:45	Light Scattering and Absorption by Fractal Aggregates Including Soot. CHRISTOPHER SORENSEN, Jerome Yon, Fengshan Liu, Justin Maughan, William Heinson, Matthew Berg, Kansas State University	12BA.5 10:45	Chemical Speciation, Bacterial Diversity and Source Apportionment of PM10 in a Heavily Polluted Urban Environment. DAVID CAPPELLETTI, Chiara Petroselli, Bea Moroni, Roberta Selvaggi, Stefano Crocchianti, Elisa Ceci, Chiara Casagrande, Bartolomeo Sebastiani, Ermanno Federici, Stefano Covino, Isabella Gandolfi, Andrea Franzetti, Roberto Ambrosini, University of Perugia, Perugia, Italy
12AP6 11:00	Sensitivity of Bare Black Carbon MAC and AAE to Morphological Parameters, Primary Particle Polydispersity, and Refractive Index in the Visible and Near-Infrared. FENGSHAN LIU, Jerome Yon, José Morán, Andrés Fuentes, Joel Corbin, Prem Lobo, Gregory Smallwood, National Research Council Canada	12BA.6 11:00	Computational Airflow Modeling Based Pathogen Tracking at Food Processing Facilities. Alexander Zuniga, Alejandro Castillo, Zahra Mohammad, Juan Pedro Maestre, Kerry Kinney, Ronald Lacey, MARIA KING, Texas A&M University
12AP7 11:15	Fragmentation of Synthetic Fractal-like Agglomerates via Random Binary Scission. Lorenzo Isella, Anastasios D. Melas, Margaritis Kostoglou, YANNIS DROSSINOS, European Commission, Joint Research Centre	12BA.7 11:15	Historic and Unpublished Data on Biological Ice Nuclei: Terrestrial and Marine. RUSSELL SCHNELL, National Oceanic and Atmospheric Administration
12AP8 11:30	Spatio-Temporal Variability of Aerosol Physical and Optical Properties from Mobile In-Situ Measurements in the Po Valley (Italy) during Summertime. MICHELE BERTÓ, Rosaria Erika Pileci, Robin Modini, Stefania Gilardoni, Angela Marinoni, Douglas Orsini, Matteo Rinaldi, Martin Gysel, Paul Scherrer Institute	12BA.8 11:30	Bioaerosol Investigation: New Experimental Activity in Chambre, an Atmospheric Simulation Chamber. SILVIA G. DANELLI, Dario Massabò, Elena Gatta, Franco Parodi, Antonio Comite, Gianluca Corno, Camilla Costa, Andrea Di Cesare, Maddalena Oliva, Luigi Vezzulli, Paolo Prati, University of Genoa and INFN Genoa, Italy
12BA	BIOAEROSOLS V BIOAEROSOL MICROBIAL DIVERSITY ROOM 264 Maria de Fatima Andrade and Alex Huffman, chairs		
12BA.1 9:45	Indoor and Outdoor Concentrations of Airborne Microbes (Bacteria and Fungal Spores) in a Hot Desert Environment. BALINT ALFOLDY, Lubna Ali, Mariem Safi, Mohamed Kotb, Nahla Eltai, Jeffrey Obbard, Qatar University		

For Nanoparticle Research !

LPDMA

Low-Pressure Differential Mobility Analyzer

The differential mobility analyzer (DMA) is a device which classifies the size of particles according to their electrical mobility. R-DEC's LPDMA can continuously classify monodisperse nanoparticles (2 -50 nm) generated in low-pressure (> 200 Pa) by connecting to a Laser ablation device or an ion beam source, etc.



The LPDMA classifies nanoparticles according to their electrical mobility.



This device was developed by the National Institute of Advanced Industrial Science and Technology (AIST).

DRYFORCE

Dry & Turbo Pumping System

- Clean and powerful pumping provided by combination of a turbo pump and dry roots pump
- The controller has a touchscreen display for easy operation
- Both auto and manual pump control are standard
- Mounted on a frame with handles and large casters for easy mobility and a brake to prevent movement

Specifications:

Turbo Pump (TMP-B300)	Pumping Speed: 280 L/s Ultimate Vacuum: 10^{-8} Pa order (after system baking) Intake Port Size: ICF 152 *Other TMPs are available depending on customer's preference.
Dry roots pump (NeoDry15E)	Pumping Speed: 250 L/min Exhaust Port Size: NW25 With a Gas Ballast Valve
Operation Mode:	<<AUTO DRIVE MODE>> Automatic start up and shut down of the turbo pump is controlled by set point signals from a vacuum gauge. It displays the status of pumping sequence as well as operation of pumps during the auto drive mode. ----- <<MANUAL DRIVE MODE>> Easy to turn on and off both turbo pump and dry root pump as well as to confirm the status and operation.
Vacuum Gauge: (M-336MX)	Crystal Ion Gauge Pressure Monitor Range: 4×10^{-8} Pa to atmospheric Flange size: NW25
Components Included:	ICF152 -NW40 / NW25 Reducing Nipple
Input Power:	AC100V to 240V / 15A (With a 5-meter input cable)
Exhaust Port Fitting:	Ø 38 Exhaust Pipe

*The specifications and appearance are subject to change without notice for quality improvement.



12CB	COMBUSTION V ROOM 263 Andrew Grieshop and Naomi Zimmerman, chairs
12CB.1 9:45	High-Temperature Sampling and Characterization of Corrosion-Relevant Particles in Waste Incineration Plants. STEFAN SCHUMACHER, Jörg Lindermann, Burkhard Stahlmecke, Dirk Jarzyna, Amit Khot, Till van der Zwaag, Hermann Nordsieck, Jens Harpeng, Ragnar Warnecke, Christof Asbach, Institut für Energie- und Umwelttechnik e.V. (IUTA)
12CB.2 10:00	Ultrafine Particle Emissions from the Combustion of Natural Gas, Biogas, and Biomethane. Jian Xue, Yin Li, Joshua Peppers, Peter Green, Thomas Young, MICHAEL KLEEMAN, University of California, Davis
12CB.3 10:15	Time-resolved Monitoring of Primary Intermediate/Semi-volatile Organic Species during Coal Combustion in a Representative Household Stove in Northern China. SIYI CAI, Liang Zhu, Shuxiao Wang, Armin Wisthaler, Jiming Hao, Tsinghua University
12CB.4 10:30	Emission Factors of PM_{2.5} and Its Climate Relevant Constituents from Cooking Processes in Traditional Mud Stoves in the Villages of North India. Annada Padhi, GAZALA HABIB, IIT Delhi
12CB.5 10:45	Emission Factors and Optical Properties of Health and Climate Relevant Pollutants Measured in a Multi-year Cookstove Intervention Study in Rural India. MOHAMMAD MAKSIMUL ISLAM, Roshan Wathore, Grishma Jain, Karthik Sethuraman, Hisham Zerriffi, Julian Marshall, Rob Bailis, Andrew Grieshop, North Carolina State University
12CB.6 11:00	Field Measurements of Solid-Fuel Cookstove Emissions from Uncontrolled Cooking in China, Honduras, Uganda, and India. ROSE EILENBERG, Kelsey Bilsback, Michael Johnson, Jack Kodros, Eric Lipsky, Christian L'Orange, Jeffrey R. Pierce, R. Subramanian, John Volckens, Allen Robinson, Carnegie Mellon University
12CB.7 11:15	Characterizing Emissions from Diverse Domestic Biofuel Uses in Rural Malawi. ASHLEY BITTNER, Eric Lipsky, Mohammad Maksimul Islam, Andrew Grieshop, North Carolina State University
12CB.8 11:30	Interpreting Emissions from Biomass Cookstoves and Wood Stoves Using a Simple Pyrolysis Model. Christina Andersen, Robert Lindgren, Ricardo Carvalho, Vilhelm B. Malmberg, Erik Ahlberg, Natxo Garcia-López, John Falk, Axel C. Eriksson, Thomas Kristensen, Birgitta Svenningsson, Christoffer Boman, JOAKIM PAGELS, Lund University, Sweden

12IM	INSTRUMENTATION X: AEROSOL SAMPLING & ANALYSIS ROOM 276 David Doughty and Jonathan Symonds, chairs
12IM.1 9:45	A New Tandem Differential Mobility Analyzer Inversion Routine That Allows Sampling of the Entire Size Distribution in Hygroscopicity Experiments. CHRISTOPHER OXFORD, Brent Williams, Washington University in St. Louis
12IM.2 10:00	Automated Raman Spectroscopy of Ambient and Laboratory-generated Aerosols. DAVID DOUGHTY, Steven Hill, US Army Research Lab
12IM.3 10:15	Developing a Large Surrogate Surface to Measure Dry Deposition of Atmospheric Aerosols. ALEXANDER JOHNSON, Cliff Davidson, Syracuse University
12IM.4 10:30	Development and Use of an Electrostatic Particle Collector for Swipe Subsampling. Kevin Huffman, Laken Inabinet, Si-Young Lee, Daniel Radford, MATTHEW SIEGFRIED, Michael Summer, Matthew Wellons, Savannah River National Laboratory
12IM.5 10:45	Development of an in Vitro Exposure System Enabled to Track Biological Impacts of Aerosol on Human Lung Cells in Real-Time. NIMA AFSHAR-MOHAJER, Lakshmana Chandrala, Kristine Nishida, Venkataramana Sidhaye, Joseph Katz, Kirsten Koehler, Johns Hopkins School of Public Health
12IM.6 11:00	Rapid Measurement of Sub-micrometer Aerosol Size Distribution Using a Fast Integrated Mobility Spectrometer. YANG WANG, Tamara Pinterich, Jian Wang, Brookhaven National Laboratory
12IM.7 11:15	Uniformity of Particle Concentration after Mixing Aerosol Flows. David Walker, Tyler J. Johnson, Robert Nishida, JONATHAN SYMONDS, Kingsley Reavell, Combustion
12IM.8 11:30	M-WINS Inlet for Continuous PM_{2.5} Sampling. THI-CUC LE, Jung-Che Sung, Krishna Kumar Shukla, Chuen-Jinn Tsai, National Chiao Tung University

12LC	LOW-COST AND PORTABLE SENSORS VI FERRARA THEATER Jingkun Jiang and R. Subramanian, chairs
12LC.1 9:45	Source Apportionment of Particulate Matter Using Low-Cost Particle Sensors with Co-Located Reference Measurements. DAVID HAGAN, Jesse Kroll, Eben Cross, Joshua Apte, Shahzad Gani, Lea Hildebrandt Ruiz, Sahil Bhandari, Gazala Habib, MIT
12LC.2 10:00	A Low-cost Sensor Network to Improve Air Quality Management: A Case Study in Jining, China. XIAOHUI QIAO, Qiang Zhang, Fenglin Liu, Ying Long, Jingkun Jiang, Tsinghua University
12LC.3 10:15	Development and Application of a New Palm-Sized Optical PM2.5 Sensor. TOMOKI NAKAYAMA, Yutaka Matsumi, ISEE, Nagoya University
12LC.4 10:30	Spatial and Temporal Variability of Air Quality in Pittsburgh, Pennsylvania with a 50-Node RAMP Network. R. SUBRAMANIAN, Carl Malings, Rebecca Tanzer, Aliaksei Haurlyliuk, Provat Saha, Aja Ellis, Rose Eilenberg, Srinivasa P.N. Kumar, Naomi Zimmerman, Allen Robinson, Albert A. Presto, Carnegie Mellon University
12LC.5 10:45	City Wide Mobile Air Sensor Network (MASEN) in Hong Kong for Evidence Based Air Quality Management. ZHI NING, Fenhuan Yang, Dane Westerdahl, City University of Hong Kong
12LC.6 11:00	Long-term Performance Evaluation of Commercial Low-Cost PM2.5 Sensors in Houston, Texas. H. LANGLEY DEWITT, Bradley Flowers, Will Ollison, Walt Crow, American Petroleum Institute
12LC.7 11:15	A Community Network of 100 Low-Cost Black Carbon Sensors. CHELSEA V. PREBLE, Julien Caubel, Troy Cados, Joshua Apte, Thomas W. Kirchstetter, University of California, Berkeley
12LC.8 11:30	Cloud-based Application to Manage Data from Distributed Air Quality Sensors Networks. BRANDON FEENSTRA, Ross Cheung, Vasileios Papapostolou, Andrea Polidori, South Coast Air Quality Management District

12MG	AIR QUALITY IN MEGACITIES: FROM SOURCES TO CONTROL VI: IMPACTS ROOM 274 Phil Hopke and Gufran Beig, chairs
12MG.1 9:45	Challenges of Air Quality Monitoring and Forecasting in Different Mega City Environments. G. BEIG, IITM, Pune, India
12MG.2 10:00	Contributions to Disease Burden from Major Sources of Air Pollution in India. Michael Brauer, Aaron Cohen, KATHERINE WALKER, Richard T. Burnett, Joseph Frostad, Qiao Ma, Randall V. Martin, Shuxiao Wang, Chandra Venkataraman, HEI GBD-MAPS Working Group, Health Effects Institute
12MG.3 10:15	Correlation between PM2.5 and Particle Number Concentrations in Four Major Cities: Toronto, Los Angeles, Helsinki and London. ALMA LORELEI DE JESUS, Md Mahmudur Rahman, Mandana Mazaheri, Luke Knibbs, Helen Thompson, Greg J. Evans, Cheol H. Jeong, Markku Kulmala, Tuukka Petäjä, Krista Luoma, Hilikka Timonen, Jarkko Niemi, Roy M. Harrison, David Beddows, Constantinos Sioutas, Mohammad Sowlat, Lidia Morawska, Queensland University of Technology
12MG.4 10:30	Trends in Particulate Matter Concentrations in Different Parts of Bangladesh. Munjurul Hannan Khan, MD. MASUD RANA, Clean Air and Sustainable Environment Project
12MG.5 10:45	Individual Exposure of PM2.5 and Health Risk Assessment of Heavy Metals in Nanchong Traffic Police. GUO JIALING, Li Youping, China West Normal University, Nanchong, Sichuan
12MG.6 11:00	Comprehensively Assessing the Drivers of Future Air Quality in California. SHUPENG ZHU, Michael MacKinnon, James V. Soukup, Donald Dabdub, University of California, Irvine
12MG.7 11:15	Ambient Air Quality in Dhaka Bangladesh over Two Decades: Impacts of Policy on Air Quality. Bilkis Begum, PHILIP K. HOPKE, Atomic Energy Centre, Dhaka
12MG.8 11:30	Insights into PM2.5 Chemical Composition and Sources in Beijing Using an Extractive Electrospray Ionisation Long-Time-Of-Flight Mass Spectrometer (EESI-LTOF). YANDONG TONG, Veronika Pospisilova, Lu Qi, Giulia Stefenelli, Varun Kumar, Urs Baltensperger, Junji Cao, Rujin Huang, Andre S.H. Prévôt, Jay G. Slowik, Paul Scherrer Institute

12RA	REMOTE/REGIONAL ATMOSPHERIC AEROSOL VII: REGIONAL AEROSOL ROOM 260 Roya Bahreini and Lijie Li, chairs
12RA.1 9:45	Evaluation of the Second IMPROVE Equation. ANTHONY PRENNI, Jenny Hand, William Malm, Scott Copeland, Bret Schichtel, National Park Service
12RA.2 10:00	Monitoring and Modeling of Atmospheric Aerosols during an Intense Dust Storm over Delhi, India. KANIKA TANEJA, Shamshad Ahmad, Kafeel Ahmad, S.D. Attri, Jamia Millia Islamia
12RA.3 10:15	Towards Properly Decoding Trends in Wet Deposition of Inorganic Ions Related to Emissions and Climate Drivers. Xiaohong Yao, LEIMING ZHANG, Environment and Climate Change Canada
12RA.4 10:30	Aerosol Liquid Water Driven by Anthropogenic Inorganic Salts: Implying Its Key Role in the Haze Formation over North China Plain. ZHIJUN WU, Yu Wang, Keding Lu, Song Guo, Limin Zeng, Yuanhang Zhang, Min Hu, Peking University, China
12RA.5 10:45	Coarse Aerosol Mass at Remote Sites across the United States. JENNY HAND, Bret Schichtel, Thomas Gill, Colorado State University
12RA.6 11:00	Heterogeneity in the Concentration Distribution of Semi-Volatile Organic Compounds in the Surface Boundary Layer over the Tropical Forest in Central Amazonia. JIANHUAI YE, Patrícia C. Guimarães, Carla E. Batista, Igor O. Ribeiro, Adan Medeiros, Matthew Stewart, Yaowei Li, Matheus A. Tomoto, Daniel Wang, Dasa Gu, Rafael L. Oliveira, Sérgio Duvoisin Junior, Karena McKinney, Alex Guenther, Rodrigo A. F. de Souza, Scot T. Martin, Harvard University
12RA.8 11:30	Fine Particulate Mass Scattering Efficiency and Refractive Index in the Central Amazonian Basin (ATTO station). SAMARA CARBONE, Guilherme Santa Cecília, Luciana Rizzo, Joel Brito, Nga Lee Ng, Lu Xu, Jorge Saturno, Bruna A. Holanda, Florian Ditas, Christopher Pöhlker, Meinrat O. Andreae, Paulo Artaxo, Federal University of Uberlândia

12SA	SOURCE APPORTIONMENT II ROOM 267 Laurent Poulain and Ben De Foy, chairs
12SA.1 9:45	High Resolution Analysis of Vehicle-related Organic Aerosols Observed at a Roadside Site in Hong Kong with the Application of TAG-ToF-MS. HAI GUO, Xiaopu Lyu, Wen Xu, John Jayne, Nathan Kreisberg, Allen H. Goldstein, Susanne Hering, Chak K. Chan, Xiangdong Li, Kin Fai Ho, Douglas Worsnop, Hong Kong Polytechnic University
12SA.2 10:00	A European-wide Intercomparison for Source Apportionment with Receptor and Chemical Transport Models. CLAUDIO BELIS, Denise Pernigotti, Guido Pirovano, FAIRMODE WG3 Community, European Commission - Joint Research Centre
12SA.3 10:15	A Global Scale Source Apportionment Scheme for Particulate Matter using the GEOS-Chem Global Atmospheric Chemistry Model. CARMEN LAMANCUSA, Kristina Wagstrom, University of Connecticut
12SA.4 10:30	Excitation Emission Matrix Fluorescence Spectroscopy for Aerosol Source Identification. JAY RUTHERFORD, Neal Dawson-Elli, Igor Novosselov, Edmund Seto, Jonathan Posner, University of Washington
12SA.5 10:45	Fingerprinting Pre-monsoon Fine Aerosol Sources over Central Indo-Gangetic Plain. MANISH KUMAR, V.K. Sarma, R.S. Singh, Tirthankar Banerjee, Banaras Hindu University
12SA.6 11:00	Real Time Source Quantification of Secondary Organic Aerosol in Zurich Using Extractive Electrospray Ionization Time-Of-Flight Mass Spectrometry (EESI-TOF). LU QI, Giulia Stefanelli, Veronika Pospisilova, Yandong Tong, Christoph Hueglin, Martin Rigler, Xinlei Ge, Mindong Chen, Urs Baltensperger, Andre S.H. Prévôt, Jay G. Slowik, Paul Scherrer Institute
12SA.7 11:15	Impact of a Shrinking Saline Lake (Salton Sea) on Regional Dust Deposition and Composition. ALEXANDER FRIE, Alexis Garrison, Mia Maltz, Jon Botthoff, Steve Bates, Timothy Lyons, Emma Aronson, Roya Bahreini, University of California Riverside
12SA.8 11:30	Positive Matrix Factorization of SEM Based Individual Particle Results from the Middle East: A Comparison of Data Sets from Kuwait Collected during Two Time Periods. Johann Engelbrecht, GARY CASUCCIO, Traci Lersch, RJ Lee Group, Inc.

FRIDAY 11:45 AM - 1:15 PM
Lunch on Your Own
FRIDAY 12:00 PM - 1:00 PM
Meet Aerosol Pioneers 3
FRIDAY 1:15 PM - 3:15 PM
Session 13: Platform

13AC	AEROSOL CHEMISTRY XIII: NEW PARTICLE FORMATION AND GROWTH ROOM 275 Andrewas Kuerten and Federico Bianchi, chairs
13AC.1 1:15	Biogenic New Particle Formation: From Pristine to Polluted Environments. LUBNA DADA, Martin Heinritzi, Mario Simon, Chao Yan, Dominik Stolzenburg, Katrianne Lehtipalo, Markku Kulmala, Jasper Kirkby, CLOUD Collaboration, University of Helsinki
13AC.2 1:30	The Birth of Haze: Molecular Understanding of New Particle Formation in Beijing. YING ZHOU, Chao Yan, Juha Kangasluoma, Yonghong Wang, Federico Bianchi, Tommy Chan, Biwu Chu, Lubna Dada, Kaspar Rudolf Dällenbach, Yueyun Fu, Xucheng He, Liine Heikkinen, Yiliang Liu, Yiqun Lu, Qingxin Ma, Pekka Rantala, Gan Yang, Rujin Yin, Joni Kujansuu, Tuukka Petäjä, Yongchun Liu, Lin Wang, Jingkun Jiang, Markku Kulmala, Beijing University of Chemical Technology
13AC.3 1:45	Chemistry of New Particle Growth During Spring Time in the Seoul Metropolitan Area, Korea. HWAJIN KIM, Qi Zhang, Korea Institute of Science and Technology
13AC.4 2:00	Molecular Understanding of the Suppression of Organic Nucleation by Isoprene. MARTIN HEINRITZI, Lubna Dada, Mario Simon, Dominik Stolzenburg, Lukas Fischer, Andrea C. Wagner, Andreas Kürten, Jasper Kirkby, Joachim Curtius, Goethe University Frankfurt
13AC.5 1:45	Impact of SO₂ on Particle Formation and Growth from α-Pinene Ozonolysis. CHRIS STANGL, Justin Krasnomowitz, Murray Johnston, Shanhu Lee, University of Delaware

13AC.6 2:30	Mechanisms That Control the Contribution of Aromatic Highly Oxidized Multifunctional Compounds (Homs) to Initial Particle Growth in the Atmosphere. MINGYI WANG, Dexian Chen, Mao Xiao, Victoria Hofbauer, Penglin Ye, Alexander Lucas Vogel, Qing Ye, Roy Lee III Mauldin, Neil Donahue, Center for Atmospheric Particle Studies, Carnegie Mellon Uni
13AC.7 2:45	Thermodynamics of Neutral Ternary (H₂SO₄-H₂O-NH₃) New Particle Formation Derived from CLOUD Chamber Measurements. ANDREAS KÜRTEEN, Goethe University, Frankfurt
13AC.8 3:00	Free Tropospheric New Particle Formation Observation from High Altitude Sites around the Globe. FEDERICO BIANCHI, Claudia Mohr, Diego Aliaga, Qiaozhi Zha, Xuemeng Chen, Otso Peräkylä, Joonas Enroth, Yee Jun Tham, Liine Heikkinen, Fernando Velarde, Juha Kangasluoma, Angela Marinoni, Stefania Gilardoni, Mikael Ehn, Katrianne Lehtipalo, Paulo Artaxo, Mikko Sipilä, Marcos Andrade, Radek Krejci, Armin Hansel, Paolo Laj, Tuukka Petäjä, Neil Donahue, Douglas Worsnop, Markku Kulmala, University of Helsinki

13AP	AEROSOL PHYSICS IX ROOM 265/266 William Heinson and Benjamin Sumlin, chairs
13AP.1 1:15	On the Inherent Measurement Uncertainty of Miniaturized PM Sensors. PAUL MAIERHOFER, Georg Röhrer, Alexander Bergmann, Graz University of Technology
13AP.2 1:30	How Uncertainties in Measurements and Choice of Regression Method Affect Inference from Data. SANTTU MIKKONEN, Mikko Pitkänen, Tuomo Nieminen, Antti Lipponen, Antti Arola, Kari Lehtinen, University of Eastern Finland
13AP.3 1:45	Filtration Efficiency and Discharging Behavior of Electret Filters. STEFAN SCHUMACHER, Rama Rao Jasti, Maximilian Kerner, Kilian Schmidt, Albert Hellmann, Sergiy Antonyuk, Christof Asbach, Institut für Energie- und Umwelttechnik e.V. (IUTA)
13AP.4 2:00	The Experimental Research on the Effect of Humidity on Fly-ash Collision Behaviour with Planar Surface. XUE LI, Ming Dong, Sufen Li, Dalian University of Technology
13AP.5 2:15	Investigation of Collisional Growth Rate of Titania Nanoparticles at High Flame Temperatures Through Molecular Dynamics Simulations. GIRISH SHARMA, Rajan K. Chakrabarty, Pratim Biswas, Washington University in St Louis

13AP.6 2:30	Effect of Time on Particle Resuspension from Substrates: Wind-tunnel Experiment and Analysis. Babak Nasr, JING QIAN, Morgan Minyard, Andrea R. Ferro, Goodarz Ahmadi, Suresh Dhaniyala, Clarkson University
13AP.7 2:45	Characteristics of Tire Wear Particles Generated by Tire Simulator under Various Driving Conditions. GIBAEK KIM, Seokhwan Lee, Korea Institute of Machinery and Materials
13AP.8 3:00	New Insight into the Kinetics of Particle Resuspension Process. Jessica Gisele Benito, Rodolfo Omar Uñac, Irene Ippolito, ANA MARÍA VIDALES, INFAP-CONICET, Universidad Nacional de San Luis
13BA	BIOAEROSOLS VI BIOAEROSOL CONTAMINATION ROOM 264 Simon Parker and Justin Taylor, chairs
13BA.1 1:15	Characterisation of Bioaerosols from Six Pig Farms Utilising Culture and Culture-Independent Methodologies. JOHN KERR WHITE, Jeppe Lund Nielsen, Anne Mette Madsen, Aalborg University
13BA.2 1:30	Size Distributions and Transport of Pathogenic Bioaerosol from Wastewater Treatment Plants. LIJIE LI, Xiao Huang, Hongliang Zhang, Michael Hoffmann, California Institute of Technology
13BA.4 2:00	Reduction Strategies for Airborne Contaminants in Pre-Commercial Pig Buildings. VALÉRIE LÉTOURNEAU, Ariane Lévesque, Matthieu Girard, Stéphane Godbout, Stéphane.P Lemay, Caroline Duchaine, IUCPQ-U.Laval, Canada
13BA.5 2:15	Bioaerosols Emissions from Open Waste Dumpsites: A case study of Olusosun Open Waste Dumpsite, Lagos Nigeria. GODWIN AKPEIMEH, Louise Fletcher, Barbara Evans, Member IPHEE, University of Leeds
13BA.6 2:30	On the Determinants of Concentrations and Size Distribution of Bioaerosols Emitted during Sorting of Household Waste. PHILIPPE DUQUENNE, Xavier Simon, Jodelle Degois, Véronique Koehler, Cécile Dziurla, Catherine Coulais, INRS
13BA.7 2:45	Using Single Particle Fluorescence to Characterise Bioaerosols Emissions from Green Waste Composting. ZAHEER AHMAD NASIR, Sean Tyrrel, Cranfield University, MK43 0AL, UK

13BA.8 3:00	Identification and Atmospheric Abundance of Primary Biological Aerosol Particles. Maria Zawadowicz, Karl D. Froyd, Daniel Murphy, Dominick Spracklen, Colette Heald, Peter Buseck, DANIEL CZICZO, MIT
13CA	CARBONACEOUS AEROSOL VII: BIOMASS BURNING AND ORGANIC AEROSOL ROOM 276 Kelley Barsanti and Naomi Zimmerman, chairs
13CA.1 1:15	Chemical Characterization of Biomass Burning Aerosols: Can We Reduce the Complexity of Primary Aerosol Emissions? ALESSANDRO FRANCHIN, Ann M. Middlebrook, Gabriela Adler, Matthew Coggon, Joost de Gouw, Jessica Gilman, Abigail Koss, Jesse Kroll, Kara D. Lamb, Christopher Lim, James Roberts, Joshua P. Schwarz, Kanako Sekimoto, Vanessa Selimovic, Chelsea Stockwell, Nick Wagner, Carsten Warneke, Rebecca Washenfelder, Caroline Womack, Robert J. Yokelson, Bin Yuan, CU CIRES - NOAA ESRL
13CA.2 1:30	Chemical Composition of Biomass Burning Particles Measured with a Soot Particle Aerosol Mass Spectrometer Downwind during the BBOP Study. TIMOTHY ONASCH, Anita Avery, John Shilling, Joda Wormhoudt, Arthur J. Sedlacek, Edward Fortner, Mikhail Pekour, Shan Zhou, Sonya Collier, Qi Zhang, Lawrence Kleinman, Ernie R. Lewis, Andrew Freedman, Leah Williams, Aerodyne Research, Inc.
13CA.3 1:45	The Effect of Hydrophobic Glassy Organic Material on the Cloud Condensation Nuclei Activity of Internally Mixed Particles with Different Particle Morphologies. Ankit Tandon, Nicholas Rothfuss, MARKUS PETERS, North Carolina State University
13CA.4 2:00	Quantification of Fossil and Non-Fossil SOA from Combined 14C/AMS-PMF Analysis for the SOAS Field Campaign. SOENKE SZIDAT, Matthias Vonwiller, Gary Salazar, Weiwei Hu, Jose-Luis Jimenez, Eric Edgerton, Stephanie L. Shaw, Andre S.H. Prévôt, University of Bern
13CA.5 2:15	Discrepancies Between the Volatility Distributions of OA in the Ambient Atmosphere and the Laboratory. Eleni Karnezi, Evangelos Louvaris, Evangelia Kostenidou, Kalliopi Florou, Kerrigan Cain, SPYROS PANDIS, Carnegie Mellon University, University of Patras

13CA.6 2:30	Prediction of Atmospheric Organic Aerosol Concentrations From Carbonyl Absorption in the Mid-Infrared. Matteo Reggente, Robin Modini, Giulia Ruggeri, SATOSHI TAKAHAMA, Andrew Weakley, Alexandra Boris, Ann Dillner, Provat Saha, Andrew Grieshop, Christoph Hueglin, Christopher Pöhlker, Meinrat O. Andreae, Samara Carbone, Paulo Artaxo, EPFL
13CA.7 2:45	Optical Properties of Biomass Burning Carbonaceous Aerosol from Controlled Laboratory Burns and Ambient Wildfires. DIAN ROMONOSKY, Samantha Gomez, Jared Lam, Christian Carrico, Allison Aiken, Petr Chylek, Thom Rahn, Manvendra Dubey, Los Alamos National Lab
13CA.8 3:00	Estimates of Radiative Forcing by Carbonaceous Aerosols over Northern India. A.S. Panicker, R. Aditi, G. BEIG, K. Ali, IITM, Pune, India

13CB	COMBUSTION VI ROOM 263 Joel Corbin and Ranjit Kumar, chairs
13CB.1 1:15	A Study on Emission Characteristics of Indian and Chinese Coal. RANJIT KUMAR, He Jing, Pratim Biswas, DEI, Daya
13CB.2 1:30	Does Coal Combustion Emit Siloxane? ZHAOJIN AN, Wei Zhou, Haixia Ren, Mo Xue, Jianguo Deng, Jingkun Jiang, Tsinghua University
13CB.3 1:45	Effects of Pressure and Coal Seams on the Characteristics of Coal Fly Ash and Submicrometer Particle Size Distribution. ZEHUA WANG, Zhichao Li, Shuhua Ma, Shili Zheng, Pratim Biswas, Washington University in St Louis
13CB.4 2:00	Black Carbon Emissions Using Marine Fuels: An Instrument Comparison and Emissions Characterization. STEPHANIE GAGNE, Brigitte Behrends, Ali Momenimovahed, Kevin Thomson, Gert Jakobi, Volker Wichmann, National Research Council Canada
13CB.5 2:15	Infrared-Absorbing Carbonaceous Tar Can Dominate Light Absorption in Heavy-Fuel-Oil PM. JOEL CORBIN, Hendryk Czech, Dario Massabò, Carlo Mennucci, Francesco Buatier de Mongeot, Gert Jakobi, Fengshan Liu, Prem Lobo, Amewu Mensah, Jürgen Orasche, Simone Pieber, Benjamin Stengel, Li-Lin Tay, Marco Zanatta, Ralf Zimmermann, Andre S.H. Prévôt, Imad El Haddad, Martin Gysel, Paul Scherrer Institute
13CB.6 2:30	Jet Engine Exhaust at the Airport – HRTEM and XPS Analyses. RANDY VANDER WAL, Chung-Hsuan Huang, Penn State University

13CB.7 2:45	Aircraft Particle Emission from Sustainable Alternative Fuels: Results from Ground Measurements during the NASA/DLR Flight Campaigns ECLIF and ND-MAX. TOBIAS SCHRIPP, Prem Lobo, Joel Corbin, Gregory Smallwood, Ewan Crosbie, Claire Robinson, Michael Shook, Patrick Obwald, Markus Köhler, DLR
13CB.8 3:00	Variation in Aircraft Engine Aerosol Emissions with Altitude During the NASA ACCESS Campaign. RICHARD MOORE, Kenneth Thornhill, Edward Winstead, Bernadett Weinzierl, Daniel Sauer, Hans Schlager, Claire Robinson, Michael Shook, Luke Ziemba, Bruce Anderson, NASA

13IM	INSTRUMENTATION XI FERRARA THEATER Modi Chen and Tyler Johnson, chairs
13IM.1 1:15	Real-time QCM MOUDI for Ambient Aerosol Monitoring. MODI CHEN, Francisco Romay, Robert Anderson, H. Dirk Felton, TSI Incorporated
13IM.2 1:30	Rational Design a Dilution Sampler for Probing Nanoparticles in Flames. ZUWEI XU, Jianlong Wan, Zhijing Su, Haibo Zhao, Huazhong University of Science and Technology
13IM.3 1:45	Significantly Improving the Operation and Information Yield of Sensor-Type Instrument Densmo by Introduction of a Scanning Mode. PAXTON JUUTI, Antti Rostedt, Jyrki M. Mäkelä, Jorma Keskinen, Tampere University of Technology, Tampere, Finland
13IM.4 2:00	High Resolution Online Measurement of Aerodynamic Diameters Using the Differential Aerodynamic Particle Sizer (DAPS). DENNIS KIESLER, Thore Rosenberger, Frank Einar Kruis, University Duisburg-Essen
13IM.5 2:15	Aerosol Charging with a Piezoelectric Plasma Generator. Mario Anton Schriefel, ALEXANDER BERGMANN, Alexander Melischnig, Markus Puff, Graz University of Technology
13IM.6 2:30	Aerosol Charger Characterization using the Aerodynamic Aerosol Classifier. TYLER J. JOHNSON, Robert Nishida, Martin Irwin, Jonathan Symonds, Jason S. Olfert, Adam M Boies, University of Cambridge
13IM.7 2:45	Differential Diffusion Analyzer. ANSSI ARFFMAN, Paxton Juuti, Juha Harra, Jorma Keskinen, Tampere University of Technology, Tampere, Finland
13IM.8 3:00	Performance Comparison of Corona-based Wire-plate and Needle-mesh Aerosol Chargers. XIAOTONG CHEN, Qiaoling Liu, Jingkun Jiang, Da-Ren Chen, Tsinghua University

13MG	AIR QUALITY IN MEGACITIES: FROM SOURCES TO CONTROL VII: CONTROLS ROOM 274 Lupita Montoya and Min Hu, chairs
13MG.1 1:15	Air Quality in the Megacity of Beijing: From Sources to Control. MIN HU, Dongjie Shang, Yao Xiao, Jing Zheng, Song Guo, Zhijun Wu, Keding Lu, Limin Zeng, Sihua Lu, Shaodong Xie, Yuanhang Zhang, Peking University, Beijing, China
13MG.2 1:30	How Much Emission Reduction is Needed to Meet Ambient PM2.5 Standards in the Cities of Sichuan Basin? XUE QIAO, Wenye Deng, Hao Guo, Ya Tang, Jianlin Hu, Qi Ying, Hongliang Zhang, Sichuan University; Louisiana State University
13MG.3 1:45	Improved Air Pollution Control Incentive Measures and Regulations in the South Coast Air Basin with an Holistic Energy and Emissions Model. SCOTT A. EPSTEIN, Marc Carreras-Sospedra, Xinqiu Zhang, Sang-Mi Lee, South Coast Air Quality Management District
13MG.4 2:00	Quantifying Feedbacks between Pollution, Radiation and Boundary Layer Dynamics in Beijing. JESSICA SLATER, Gordon McFiggans, Hugh Coe, Sami Romakkaniemi, Juha Tonttila, Paul Connolly, David Topping, Pingqing Fu, Yele Sun, Simone Kotthaus, Zhijun Wu, University of Manchester
13MG.5 2:15	Dirty Jets: Observations of Ultrafine Particle Plumes from Landing Aircraft at Boston Logan Airport and a Data Science Approach to Identify the Culprits. Scott Hersey, Allen Downey, Caz Nichols, EBEN CROSS, Franklin W. Olin College of Engineering
13MG.6 2:30	Effects of Diesel Truck Regulations on Environmental Justice in a Major Freight Corridor in California. REGAN PATTERSON, Robert Harley, University of California, Berkeley
13MG.7 2:45	Air Pollution in Latin American Cities. Hector Jorquera, LUPITA MONTOKYA, Nestor Rojas, University of Colorado Boulder
13MG.8 3:00	Seasonality of Air Pollution in Bogota: From Regional Biomass Burning Transport to Local Sources. RICARDO MORALES BETANCOURT, Luis Carlos Belalcazar, Juan Felipe Mendez, Maria Paula Perez-Peña, Yadert Contreras Barbosa, Juan Pablo Ayala, Universidad de los Andes

13SA	SOURCE APPORTIONMENT III ROOM 267 Sivaraman Balachandran and Jay Rutherford, chairs
13SA.1 1:15	Source Apportionment of Brown Carbon Absorption by Coupling Ultraviolet-Visible Spectroscopy with Aerosol Mass Spectrometry. VAIOS MOSCHOS, Nivedita Kumar, Kaspar Rudolf Dällenbach, Urs Baltensperger, Andre S.H. Prévôt, Imad El Haddad, Paul Scherrer Institute / ETH Zurich
13SA.2 1:30	Wintertime Study of Ambient Aerosols (PM1 and PM2.5): Insights to Source Characterization and Atmospheric Transformation. GYANESH KUMAR SINGH, Prashant Rajput, Pradhi Rajeev, Dharmendra Kumar Singh, Amit Kumar Singh, Debajyoti Paul, Tarun Gupta, Indian Institute of Technology Kanpur
13SA.3 1:45	Carbonaceous Organic Aerosol Composition and Sources in the Baltic. ATHANASIA VLACHOU, A. Tobler, Houssni Lamkaddam, Carlo Bozzetti, Kaspar Rudolf Dällenbach, Gary Salazar, Soenke Szidat, Urs Baltensperger, Imad El Haddad, Andre S.H. Prévôt, Paul Scherrer Institute
13SA.4 2:00	Sulfuric Acid and Nanocluster Aerosol Measured in an Urban Street Canyon of Helsinki, Finland. MISKA OLIN, Riina Hietikko, Minna Aurela, Heino Kuuluvainen, Niina Kuittinen, Mia Isotalo, Hilikka Timonen, Jarkko Niemi, Topi Rönkkö, Miikka Dal Maso, Tampere University of Technology
13SA.5 2:15	Identification of the Chemically Distinct Groups of Atlantic Aerosol Particles from 53°N to 53°S. SHAN HUANG, Laurent Poulain, Wolfram Birmili, Zhijun Wu, Hartmut Herrmann, Alfred Wiedensohler, Jinan University
13SA.6 2:30	Source Apportionment of Organic Particulate Matter at the Phillips 66 Research Center in Bartlesville, Oklahoma. SHAOKAI GAO, Phillips 66 Research Center
13SA.7 2:45	Multi-Year Source Apportionment of Highly-Time Resolved Carbonaceous Aerosol in the Region of Paris, France. YUNJIANG ZHANG, Olivier Favez, Francesco Canonaco, Jean-Eudes Petit, Tanguy Amodeo, Francois Truong, Jean Sciare, Andre S.H. Prévôt, Valerie Gros, Alexandre Albinet, INERIS
13SA.8 3:00	Chemical Characterization of Secondary Organic Aerosol (SOA) in a Transitional Season of Biogenic VOC Emission. YUNLE CHEN, Theodora Nah, David Tanner, Masayuki Takeuchi, Hongyu Guo, Amy P. Sullivan, Lu Xu, Rodney J. Weber, Greg Huey, Nga Lee Ng, Georgia Institute of Technology

13TO		AEROSOL TOXICOLOGY II ROOM 260 Michal Padro and Chih-Hsiang Chien, chairs
13TO.1 1:15	Effect of Combustion Particle Size on Pathologically Important Responses in Lung Cells.	KAMALJEET KAUR, Raziye Mohammadpour, Isabel C. Jaramillo, Robert Paine, Chris Reilly, Hamid Ghandehari, Kerry Kelly, University of Utah
13TO.2 1:30	Identification of the Factors Responsible for the Health Effects of Atmospheric Fine Particles by Cyclone Collection Method and Exposure Experiments.	TOMOAKI OKUDA, Hirohisa Takano, Akiko Honda, Shuichi Hasegawa, Takayuki Kameda, Susumu Tohno, Toshinori Onishi, Michitaka Tanaka, Masahiko Hayashi, Keiichiro Hara, Chiharu Nishita, Daiki Shishido, Yoshihiro Terui, Tsubomi Sato, Koza Inoue, Keio University
13TO.3 1:45	Personal and Ambient Exposure of Fine Particulate Matter and Its In-Vitro Effect on Lung Cell Line: A Study for Metro City Delhi.	ANANYA DAS, Nisar Ali Baig, Arun Kumar, Vivekanandan Perumal, Gazala Habib, IIT Delhi
13TO.4 2:00	Seasonal Variations in Fine Particle Composition from Beijing Prompt Oxidative Stress Response In Vivo and In Vitro.	MICHAL PARDO, Fanfan Xu, Xinghua Qiu, Tong Zhu, Yinon Rudich, Weizmann institute of science, Israel
13TO.5 2:15	Airborne Nanoparticle Release and Toxicological Risk from Metal Oxide-coated Textiles: Toward a Multi-scale Safe-by-design Approach.	Paride Mantecca, Kaja Kasemets, Archana Deokar, Ilana Perelshtein, Aharon Gedanken, Yeon Kyoung Bahk, Bahareh Kianfar, JING WANG, ETHZ/Empa
13TO.6 2:30	Inhibition of Sub-Chronic Toxicity of Halloysite Nanotubes Aerosol by Enhancing Autophagy in Vivo and in Vitro.	RUI RONG, Yongming Zhang, Qixing Zhang, University of Science and Technology of China
13TO.7 2:45	Development of a Computerized Nose-Only Inhalation Chamber for Nanotoxicology Study.	WEI-HSUAN CHEN, Ming-Yeng Lin, Chih-Ching Chang, National Cheng Kung University
13TO.8 3:00	Characterization of an High-Efficiency Electrostatic Precipitator Regarding Particle Size, Aerosols Flow and Particle Concentration.	HARALD WIEGAND, Jörg Meyer, Gerhard Kasper, KIT, Germany

FRIDAY 3:15 PM - 3:30 PM
Coffee Break

FRIDAY 3:30 PM - 5:00 PM
Session 14: Platform

14AC		AEROSOL CHEMISTRY XIV: BIOMASS BURNING AND SEA SPRAY AEROSOL ORGANICS ROOM 275 Amanda Frossard and Sophie Tomaz, chairs
14AC.1 3:30	Characterizing Potential Aqueous Secondary Organic Aerosol Formation from Biomass Burning Emissions during 2016 FIREX Campaign.	SOPHIE TOMAZ, Tianqu Cui, Yuzhi Chen, Kenneth Sexton, James Roberts, Carsten Warneke, Robert J. Yokelson, Jason Surratt, Barbara Turpin, University of North Carolina at Chapel Hill
14AC.2 3:45	Modeling Secondary Organic Aerosol (SOA) Formation from Biomass Burning in the Euro-Mediterranean Region during the Summer 2007.	MARWA MAJDI, Karine Sartelet, Florian Couvidat, Grazia Maria Lanzafame, Mounir Chrit, Solene Turquety, Youngseob Kim, Bertrand Bessagnet, Alexandre Albinet, CEREAs, Ecole des Ponts ParisTech- EdF R&D, France
14AC.3 4:00	High Abundance of Oxalic Acid in a Rural Atmosphere of Eastern Central India: Influence of Biomass Burning and Photochemical Processing.	DHANANJAY KUMAR DESHMUKH, Manas Kanti Deb, Kimitaka Kawamura, Dharmendra Kumar Singh, Chubu University, Japan
14AC.4 4:15	New Perspectives on Atmospheric Chemical Mechanism: Controlling NO_x Emissions from Vehicles Should be a Priority in China.	YUESI WANG, Guiqian Tang, Yuepeng Pan, Dongsheng Ji, Zirui Liu, Lili Wang, Tao Song, Wenkang Gao, Inst. of Atmospheric Physics, Chinese Academy of Sciences
14AC.5 4:30	Hydroxyl and Nitrate Radical Oxidation of Agricultural Reduced Sulfur Compounds in the Presence of Amines.	PAUL VAN ROOY, Kathleen Purvis-Roberts, Philip Silva, David R. Cocker III, University of California, Riverside
14AC.6 4:45	Characterization of Surface-Active Organics in Seawater and Primary Marine Aerosol Particles.	AMANDA FROSSARD, Tret Burdette, Whitney Hudson, University of Georgia

14AP	AEROSOL PHYSICS X ROOM 265/266 Chris Hogan and Huang Zhang, chairs
14AP1 3:30	The Kinetics of Aerosol Gelation. PAI LIU, William Heinson, Rajan K. Chakrabarty, Washington University in St. Louis
14AP2 3:45	Measurement of the Dynamics of Inertial, Rigid Nylon Fibers in Isotropic Air Turbulence. SOFIA KUPERMAN, Lilach Sabban, René van Hout, Technion – Israel Institute of Technology
14AP3 4:00	Experimental Verification of Transition Regime Aggregation Theories. Xiaoshuang Chen, Souvik Ghosh, David Buckley, R. Mohan Sankaran, CHRISTOPHER HOGAN JR., University of Minnesota
14AP4 4:15	Entropy Evolution of a Coagulating Aerosol. ADAM M BOIES, Nihal El Fahim, University of Cambridge
14AP5 4:30	A Closed Form Expression for the Collision Kernel to Describe Attractive Coulombic Interactions and a Framework for Generalization to Arbitrary Attractive Potentials. Harjinder Singh Chahl, RANGANATHAN GOPALAKRISHNAN, The University of Memphis
14AP6 4:45	Investigation of the Contact Force Model of a Micrometer-sized Particle Impacting on a Wetted-surface. HUANG ZHANG, Qianfeng Liu, Yiyang Zhang, Shuiqing Li, Pratim Biswas, Washington University in St Louis

14BA	BIOAEROSOLS VII BIOAEROSOL MEASUREMENT ROOM 264 Jae Hee Jung and Tiffany Mott, chairs
14BA.1 3:30	Capture and Inactivation of Bio-aerosols using ZnO Nanofibers. ACHARIYA SURIYAWONG, Sukanya Munthum, Varong Pavarajarn, Faculty of Engineering, Chulalongkorn University, Thailand
14BA.2 3:45	Technical Considerations for Device Mediated Airborne Nontuberculous Mycobacteria (NTM) Infections. SUVAJYOTI GUHA, Jon Weeks, Katharine Segars, Wolloscheck David, Ryan Fung, Delya Delavary, Kelly Bauer, Elaine Mayhall, Nicole Gillette, U.S. Food and Drug Administration, CDRH
14BA.3 4:00	Antibiotic Resistant Bacteria (ARB) and Antibiotic Resistance Genes (ARGs) in Air Media. JING LI, Maosheng Yao, Peking University

14BA.5 4:30	Aerosolization of Palytoxin in Nose-only Aerosol System. AYSEGUL NALCA, Ondraya Frick, Virginia Livingston, David Dyer, Larry Bowen, Mark Poli, US Army Medical Research Institute of Infectious Diseases
14BA.6 4:45	Use of GREATpa System for Online Detection of Airborne Endotoxin. HAOXUAN CHEN, Maosheng Yao, Peking University

14CA	CARBONACEOUS AEROSOL VIII: FIELD MEASUREMENTS ROOM 276 Thorsten Hohaus and Alex Lee, chairs
-------------	---------------------------------------------------------------------------------------------------------

14CA.1 3:30	Optical and Thermal Measurements and Source Apportionment of TC, BC, OC, EC and CM with High Time-resolution and Comparison to Aerosol Mass Spectrometry. MARTIN RIGLER, Irena Jezek, Drinovec Luka, Janja Tursic, Kranjc Irena, Glojek Kristina, Jean-Philippe Putaud, Valerie Gros, Olivier Favez, David Green, Athanasia Vlachou, Christoph Hueglin, Yandong Tong, Giulia Stefanelli, Jay G. Slowik, Andre S.H. Prévôt, Anthony D.A Hansen, Grisa Mocnik, Aerosol d.o.o.
14CA.2 3:45	Long-term High Temporal Resolution Measurements of Carbonaceous Aerosol at a Suburban Station, in Athens, Greece – Assessment of Secondary Organic Aerosol Formation. Evangelia Diapouli, Stergios Vratolis, Athina-Cerise Kalogridis, Prodromos Fetfatzis, Maria Gini, KONSTANTINOS ELEFThERIADIS, NCSR Demokritos, Athens, Greece
14CA.3 4:00	The MWAA Model as a Tool for Carbonaceous Aerosols Apportionment and as an Input for the Improvement of TOT Measurements. DARIO MASSABÒ, Vera Bernardoni, Rosaria Erika Pileci, Silvia G. Danelli, Lorenzo Caponi, Gianluigi Valli, Roberta Vecchi, Paolo Prati, University of Genoa and INFN Genoa, Italy
14CA.4 4:15	Long-Term, Continuous Aethelometer Monitoring Data Reveal Unexpected Black Carbon and Brown Carbon Sources. K. MAX ZHANG, George Allen, Philip K. Hopke, James Schwab, Oliver Rattigan, H. Dirk Felton, Cornell University
14CA.5 4:30	Characteristics of Carbonaceous Aerosols at Two Major Cities Located in the Indo-Gangetic Basin. ATAR SINGH PIPAL, Ajay Taneja, Suresh Tiwari, Dr. B. R. Aambedkar University, Agra, India
14CA.6 4:45	Characteristics and Origins of Carbonaceous Aerosols at an Urban Site of Qatar Peninsula. WASIM JAVED, Bing Guo, Minas Iakovides, Qi Ying, Euripides G. Stephanou, Texas A&M University at Qatar

14DU	COMBUSTION-GENERATED AEROSOLS: THE DESIRABLE AND UNDESIRABLE IV - BIOMASS AND COAL COMBUSTION ROOM 263 Changfu You and Xuebin Wang, chairs
14DU.1 3:30	Experimental Study on the Multi-phase PM Formation Mechanism during Biomass Pyrolysis and Combustion. XUEBIN WANG, Zhongfa Hu, Yan Li, Shuaishuai Li, Houzhang Tan, Xi'an Jiaotong University
14DU.2 3:45	Excessive Air Pollution from Carbon-Neutral Fuels. Chunshui Lin, Colin O'Dowd, Darius Ceburnis, JURGITA OVADNEVAITE, National University of Ireland Galway, Ireland
14DU.3 4:00	Emission Behaviors of PM10 during Combustion of Pre-Treated Straw and Co-Combustion with Pulverized Coal. WENYU WANG, Chang Wen, Ying Zhou, Changkang Li, Minghou Xu, Huazhong University of Science and Technology, China
14DU.4 4:15	Coal Carbonisation for Control of Emissions from Cook Stoves. Darpan Das, Suryendu Dutta, Upendra Bhandarkar, VIRENDRA SETHI, IIT Bombay
14DU.5 4:30	The Effects of Pressure on Alkali and Alkali Earth Metals in Particle Matter Generated from a Lab-Scale POFBC. JIA WANG, Lunbo Duan, Yuanqiang Duan, Xuebin Wang, Yong Yan, Southeast University, China
14DU.6 4:45	Numerical Study on Evaporation of Inherent Minerals during Combustion of a Char Particle. SIBO QU, Haiming Wang, Changfu You, Tsinghua University, China

14HA	HEALTH RELATED AEROSOLS III ROOM 260 Krystal Godri Pollitt and Ramesh Raliya, chairs
14HA.1 3:30	Diesel Engine Exhaust Particles: Science, Regulations and Technological Developments Leading to Cleaner Emissions. ROGER MCCLELLAN, Private Consultant
14HA.2 3:45	Cyclic Siloxane Oxidation over North America: Quantifying the Strength, Properties, and Lung Cytotoxicity of Widespread Silicon from Personal Care Products. Nathan Janecek, Benjamin King, Rachel Marek, Andrea Adamcakova-Dodd, Traci Lersch, Kristin Bunker, Gary Casuccio, Kaj Hansen, William Brune, Peter Thorne, Keri Hornbuckle, Jennifer Fiegel, CHARLES STANIER, University of Iowa

14HA.3 4:00	Daytime and Nighttime Particulate Matter Toxicity in an Urban City. TING ZHANG, Maosheng Yao, Peking University
14HA.4 4:15	Spatial and Temporal Variability in Chemical Composition of Fine Particulate Matter and Human Health Impact Assessment for the Megacity of Karachi, Pakistan. Lurie Kelly, HAIDER KHWAJA, Shedrack Nayebare, Zafar Fatmi, David Carpenter, Daniel Malashock, Azhar Siddique, Kamran Khan, Mirza M. Hussain, Fida Khatib, Wadsworth center, University at Albany
14HA.5 4:30	Relationship between Aerosol Composition and Sources and Their Oxidative Potential in Central Europe. KASPAR RUDOLF DÄLLENBACH, Gaëlle Uzu, Ivan Kourtchev, Laure-Estelle Cassagnes, Alexander Lucas Vogel, Giulia Stefanelli, Athanasia Vlachou, Jay G. Slowik, Jean-Luc Jaffrezo, Markus Kalberer, Josef Dommen, Urs Baltensperger, Imad El Haddad, Andre S.H. Prévôt, Paul Scherrer Institute / University of Helsinki
14HA.6 4:45	In Vitro Toxicity of PM Collected at Different Sites in Switzerland: Correlation between Chemical Composition and Toxicity. LAURE-ESTELLE CASSAGNES, Zaira Leni, Kaspar Rudolf Dällenbach, Gaëlle Uzu, Andre S.H. Prévôt, Urs Baltensperger, Jean-Luc Jaffrezo, Imad El Haddad, Marianne Geiser, Josef Dommen, Paul Scherrer Institute

14LC	LOW-COST AND PORTABLE SENSORS VII FERRARA THEATER Suresh Dhaniyala and John Volckens, chairs
14LC.1 3:30	Extracting Air Quality from Photographs. Batsal Pudasaini, Joseph Skufca, Sumona Mondal, Natasha Banerjee, Jan Scrimgeour, Mark Kanaparthi, SURESH DHANIYALA, Clarkson University
14LC.2 3:45	Airbox: A Participatory Ecosystem for pm2.5 Monitoring. LING-JYH CHEN, Shih-Chun Lung, Sachit Mahajan, Hsin-Hung Hsieh, Jin-Wei Liu, Academia Sinica
14LC.3 4:00	Evaluation of a Low-Cost Personal Sampler for Assessing Respirable Dust Exposure in Taconite Mining. REBECCA FOOS, Nima Afshar-Mohajer, Karl Braun, Gurumurthy Ramachandran, John Volckens, Colorado State University
14LC.4 4:15	A Novel Method Based on Light Scattering for Distinguishing Water and Fly-ash Aerosols in Industrial Stack Emission. Satyanarayanan Seshadri, VIPUL DOGRA, Indian Institute of Technology, Madras

14LC.5 4:30	Intelligent PM2.5 Sensor Network Experience in Taiwan's Campus and Industrial Park. HSUNLING BAI, Chungsyng Lu, Shie-Yuan Wang, Wen-Chih Peng, Chun-Chia Hsu, Sihyu Liou, Chienchiao Hung, Yen-Chi Huang, Peiyu Lu, Wei So Sun, National Chiao Tung University
14LC.6 4:45	Using Low-Cost Sensors (RAMPs) to Evaluate the Spatial and Temporal Variation of Fine Particulate Matter Concentration within Environmental Justice Communities Surrounding Large Industrial Facilities. REBECCA TANZER, Carl Malings, Allen Robinson, R. Subramanian, Albert Presto, Carnegie Mellon University

14RA	REMOTE/REGIONAL ATMOSPHERIC AEROSOL VIII: NEW PARTICLE FORMATION ROOM 274 Sarah Styler and Coty Jen, chairs
-------------	-------------------------------------------------------------------------------------------------------------------------

14RA.1 3:30	Temporal Distribution of New Particle Formation Events in Brisbane, Australia. BUDDHI PUSHPAWELA, Rohan Jayaratne, Lidia Morawska, Queensland University of Technology, Brisbane, Australia
14RA.2 3:45	New Particle Formation and Sub-10nm Size Distribution Measurements in Paphos, Cyprus, during the A-LIFE Field Experiment. SOPHIA BRILKE, Nikolaus Fölker, Konrad Kandler, Nan Ma, Thomas Müller, Anne Philipp, Thomas Ryerson, Petra Seibert, Bernadett Weinzierl, Paul M. Winkler, University of Vienna
14RA.3 4:00	Identification of New Particle Formation Events with Deep Learning. Jorma Joutsensaari, MATTHEW OZON, Tuomo Nieminen, Santtu Mikkonen, Timo Lähivaara, Stefano Decesari, M. Cristina Facchini, Ari Laaksonen, Kari Lehtinen, University of Eastern Finland
14RA.4 4:15	Long-term Trends in Particle Number Size-distributions and New Particle Formation Observed at San Pietro Capofiume, Italy. TUOMO NIEMINEN, Jorma Joutsensaari, Ville Leinonen, Santtu Mikkonen, Taina Yli-Juuti, Pasi Miettinen, Annele Virtanen, Kari Lehtinen, Ari Laaksonen, Stefano Decesari, Leone Tarozzi, M. Cristina Facchini, University of Eastern Finland
14RA.6 4:45	Aerial Observation of Atmospheric Nanoparticles in Fukue Island, Japan. KWANGYUL LEE, Indra Chandra, Yayoi Inomata, Yoshio Otani, Masahiko Hayashi, Akinori Takami, Takafumi Seto, Kanazawa University

14SA	SOURCE APPORTIONMENT IV ROOM 267 Shannon Capps and Yunle Chen, chairs
14SA.1 3:30	Going Deeper on the Characterization of the Biogenic SOA by Combining On-line and Off-line Approaches during F-BEACH 2014. LAURENT POULAIN, Anke Mutzel, Monique Teich, Nadja Triesch, Andreas Held, Stefanie Richters, Dominik van Pinxteren, Yoshiteru Iinuma, Martin Brüggemann, Alfred Wiedensohler, Hartmut Herrmann, Leibniz Institute for Tropospheric Research
14SA.2 3:45	Chemical Characterization and Source Contribution to PM2.5 Organic Fraction in Neighboring Towns of Bogota, Colombia. Felipe Villamil, Irene Rosas, James Schauer, NESTOR ROJAS, Universidad Nacional de Colombia
14SA.3 4:00	Comprehensive Analysis of PM2.5 in Toronto: Composition, Sources, and Health Effects. CHEOL H. JEONG, Alison Traub, Angela Huang, Jon M. Wang, Nathan Hilker, Anthony Munoz, Ewa Dabek-Zlotorzynska, Dennis Herod, Scott Weichenthal, Greg J. Evans, SOCAAR, University of Toronto
14SA.4 4:15	Source Apportionment, Wind Transport and Atmospheric Transformation of Carbonaceous Aerosol in the San Joaquin Valley, California. BENJAMIN DE FOY, Michael Olson, Alexandra Lai, Min-Suk Bae, Qingyang Liu, Matthew Skiles, James Schauer, St. Louis University
14SA.5 4:30	Ambient PM2.5 Source Apportionment: a Case Study of Tehran. SINA TAGHVAAE, Mohammad Sowlat, Amirhosein Mousavi, Mohammad Sadegh Hassanvand, Masud Yunesian, Kazem Naddafi, Constantinos Sioutas, University of Southern California
14SA.6 4:45	Comparison of PM2.5 Chemical Composition and Sources at a Rural Background Site in Central Europe between the Years 1993/1994/1995 and 2009/2010: Effect of Legislative Regulations and Economic Growth on the Air Quality. PETRA POKORNÁ, Jaroslav Schwarz, Radek Krejci, Erik Swietlicki, Vladimír Havránek, Vladimír Ždímal, Institute of Chemical Process Fundamentals CAS

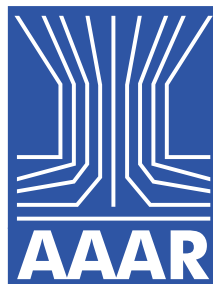


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AUTHOR INDEX

Aalto, Juho – 4AC.22

Aalto, Pasi – 2IM.2, 10SA.27

Aaltonen, H Laura – 1MD.4, 4MD.5

Abbatt, Jonathan – 4AC.31, 7AC.22, 7AM.8, 11CA.7, 12AC.5, 12AC.7

Abbs, Suzie – 11BA.3

Abd El-Aal, Mohamed – 3MS.4, 7MS.7

Abokifa, Ahmed A. – 4MS.6, 7AP.23

Abou-Ghanem, Maya – 12AC.7

Abrahamson, Joseph – 4DU.4, 7CB.13

Abram, Christopher – 1DU.6

Abu Samah, Azizan – 5AM.7

Acharya, Shinjita – 6MS.9

Achilefu, Samuel – 3MD.5, 4MS.12

Acir, Ismail-Hakki – 4AC.15

Ackendorf, Jessica – 4AC.38

Actkinson, Blake – 10IM.8

Adachi, Kouji – 3IN.4, 6TT.6

Adam, Max – 4CA.5, 12AC.5

Adamcakova-Dodd, Andrea – 14HA.2

Adams, Dexter – 4IM.18

Adams, Peter – 1AM.8, 4AM.11, 4AM.27, 4AM.32

Adani, Mario – 4AM.23

Adeosun, Adewale – 4DU.3, 4DU.7, 10DU.1

Adhikari, Sagar – 3RA.2, 8ES.6

Aditi, R. – 13CA.8

Adler, Gabriela – 13CA.1

Afreh, Isaac – 8AM.1

Afroughi, Mohammad Javad – 7CB.12

Afshar-Mohajer, Nima – 10WA.4, 11LC.5, 12IM.5, 14LC.3

Afzal, Nimra – 7MG.6

Afzalifar, Ali – 4AM.20

Agao, Desmond – 7CB.9

Aguillon-Vazques, Carina – 7MG.12

Ahati, Jiaerheng – 7TT.2

Ahlawat, Ajit – 4AM.25

Ahlberg, Erik – 12CB.8

Ahmad, Kafeel – 12RA.2

Ahmad, Komel – 7MG.6

Ahmad, Mubashir – 7MG.6

Ahmad, Rida – 7MG.6

Ahmad, Shamshad – 12RA.2

Ahmadi, Goodarz – 4AM.33, 10AP.10, 13AP.6

Ahmadov, Ravan – 9AM.4

Ahmed, C.M. Sabbir – 6CD.2, 7CD.12

Ahmed, Rayhan – 6AM.1

Ahn, Jinhong – 7LC.17

Ahn, Joon Young – 7AC.29, 9MG.3

Ahn, Kang-Ho – 7IM.28, 8LC.5, 10RA.3, 10RA.13

Ahonen, Lauri R. – 2IM.2, 4AC.37, 8IM.8, 10AC.2

Ahzi, Said – 3CM.2

Aiken, Allison – 1RA.2, 1RA.3, 1RA.7, 5CA.8, 13CA.7

Ait Ali Yahia, Lyes – 4AP.18

Aithinne, Kathleen – 7IB.12

Ajinkya, Bhaleao – 10AP.8

Akherati, Ali – 4CA.2, 8AM.3

Akimkin, Vasilij – 7BA.23

Akingunola, Ayodeji – 9AM.3

Akpeimeh, Godwin – 13BA.5

Akroyd, Jethro – 11CB.5

Alanen, Jenni – 7CB.11, 7CB.20, 8CB.4, 9WA.6

Alarcón Jiménez, Ana Luisa – 4AP.29

Alastuey, Andrés – 10SA.30

Alatrash, Abubakar – 1MD.7

Albers, Steven – 9AM.4

Alberti, Kyle – 7LC.21

Albinet, Alexandre – 4AM.4, 4CA.8, 7CB.5, 10SA.1, 10SA.5, 13SA.7, 14AC.2

Alburty, David – 7BA.3

Aldemkhan, Fariza – 7IA.9

Alekseychik, Pavel – 10AC.2

Alex, Dumbrell – 7BA.7

Alexander, Curtis – 9AM.4

Alexander, Matthew V. – 3AC.6

Alexandre, José Luís – 3IA.5

Alfoldy, Balint – 12BA.1

Algré, Emmanuelle – 7LC.3

Alharbi, Badr – 4CA.1

Ali, Attarad – 7BA.25

Ali, K. – 13CA.8

Ali, Lubna – 12BA.1

Ali, Zulfiqar – 6AE.2, 6CD.1, 7AE.6, 7MG.6

Aliaga, Diego – 10AC.8, 10AC.13, 13AC.8

Alimokhtari-V, Shahnaz – 10HA.6

Alirigia, Rex – 7CB.9

Allan, James – 3ED.1, 4IN.9, 4OF.2, 4RA.4, 7AP.28, 7AP.30, 9MG.8, 10MG.12, 11CA.2

Allelein, Hans-Josef – 2CM.7

Alleman, Laurent – 10SA.1

Allen, George – 7IM.7, 14CA.4

Aller, Josephine – 1IN.8

Almaraz, Maya – 7AM.16

Almeida, Joao – 7AP.24

Almeida, Susana Marta – 2IA.7, 3IA.5, 4AE.9, 4AE.15, 4IA.5, 5RA.2, 6AE.8

Almeida-Silva, Marina – 2IA.7, 3IA.5, 4AE.15, 5RA.2

Almquist, Catherine – 10BA.21

Alpert, Peter Aaron – 1IN.8, 7AC.16

Alsharifi, Thamir – 4IM.24

Alstadt, Valerie J. – 1MD.6, 7CD.2

Alsved, Malin – 7IB.19

Altmaier, Ralph – 1MD.1

Altmejd, Simon – 10HA.16

Alvarado, Matthew – 4AC.33, 7AM.19

Alvarez, Ramon – 6AE.7, 9LC.1, 10IM.8

Alvarez, Sergio – 4AC.16

Alvarez-Ospina, Harry – 1IN.7, 7MG.12, 9MG.7

Alves, Célia – 4AE.15, 4CA.9, 4IA.3, 4IA.5, 5RA.2, 7IA.4, 10SA.6

Amanatidis, Stavros – 4IM.10, 7IM.15

Amato, Fulvio – 4RA.30

Amato, Pierre – 7CC.8, 10BA.10

Ambrosini, Roberto – 12BA.5

Amenitsch, Heinz – 5IM.5

Aminov, Zafar – 10MG.10

Ammann, Markus – 7AC.16, 9AC.1

Amodeo, Tanguy – 4CA.8, 13SA.7

Amouei Torkmahalleh, Mehdi – 4AM.21, 6AM.6, 7IA.9, 7LC.14, 10LC.20, 10MG.21, 11MG.4

An, Eunserb – 3CM.4

An, Kang-Ho – 7LC.19

An, Siyuan – 4MS.6

An, Zhaojin – 4AC.10, 13CB.2

Anand, S. – 4AM.13

Anand K.A., Arshitha – 7CC.2

Andersen, Christina – 2IA.6, 10CB.7, 12CB.8

Anderson, Bruce – 7CC.13, 7MG.8, 13CB.8

Anderson, Kaelan – 2RA.2
Anderson, Robert – 13IM.1
Andersson, Camilla – 4AM.23
Andersson, Jonathan – 2IM.8
Andino, Manuel – 1IN.7
Andrade, Izabel da S. – 4RA.28
Andrade, Marcos – 10AC.13, 13AC.8
Andrade, Maria de Fatima – 7AE.10, 8MG.2, 10BA.13
Andrae, Meinrat O. – 2AP.1, 4AP.21, 9AC.1, 10RA.9, 11BA.8, 12AC.2, 12AP.2, 12BA.4, 12RA.8, 13CA.6
Andreeva, Irina – 7IB.13
Andrei, Simona – 4RA.25, 10SA.22
Andres, Stefanie – 1AC.7, 4AC.32
Andrews, Clinton J. – 7LC.9, 10BA.2
Andrews, Elisabeth – 7TT.12
Angelo, Viola – 7AP.29
Anna, Shelley – 3IN.5
Ansmann, Albert – 4AP.22
Antonyuk, Sergiy – 13AP.3
Apel, Eric – 4CA.26
Apsokardu, Michael J. – 4AC.11, 6IM.4, 10AC.4
Apte, Joshua – 4AE.7, 6AE.6, 6AE.7, 7AE.4, 8AE.5, 8MG.6, 9LC.1, 9MG.6, 10IM.8, 11MG.8, 12LC.1, 12LC.7
Araji, Fadi – 8IM.6
Arangio, Andrea – 11IM.8
Arata, Caleb – 1IA.7
Araujo, Alessandro – 2AP.1, 4AP.21
Araujo, Alex – 10RA.9
Araújo, Elaine Cristina – 4RA.28
Archer, John – 7IB.22
Ardon-Dryer, Karin – 6CD.4
Arffman, Anssi – 4IM.19, 4IM.22, 9WA.6, 13IM.7
Arndt, Michael – 5RA.3
Arola, Antti – 13AP.2
Aronson, Emma – 12SA.7
Artaxo, Paulo – 2AP.1, 4AP.21, 7AP.21, 7CD.18, 7ES.3, 7MG.4, 7TT.15, 10RA.9, 11BA.8, 12AC.2, 12AP.2, 12RA.8, 13AC.8, 13CA.6
Arub, Zainab – 8MG.6, 11MG.8
Aryal, Rudra – 4RA.22
Asa, Bradman – 7LC.11
Asa-Awuku, Akua – 4ED.3, 7CC.12, 7IB.14, 8CB.1, 10CB.1
Asadi, Sima – 6IB.3
Asbach, Christof – 3IA.1, 3IA.2, 8LC.6, 12CB.1, 13AP.3
Ashley, Kevin – 7IM.17, 7IM.18
Asmi, Eija – 4CA.16, 7TT.3, 9WA.6
Assarsson, Eva – 11HA.8
Assif, James – 8IM.4, 10CA.1
Asta, Gregorič – 7CC.10
Athukorala, Chethani – 7IB.17
Atluri, Rambabu – 7CD.20
Attoui, Michel – 1DU.3, 2IM.2, 2IM.3, 4IM.3, 5AP.7, 10IM.15
Attri, S.D. – 7MG.15, 12RA.2
Atwi, Khairallah – 7AC.5, 9CA.4, 10CB.18
Atwood, Samuel – 4CA.1
Augsburg, Klaus – 5RA.3
Augustaitis, Algirdas – 10SA.26
Auguste, Donna – 1IA.4
Ault, Andrew – 1AC.4, 4AC.5, 6AC.2, 7AP.27, 9AC.2, 9AC.5
Aumont, Bernard – 8AC.1, 8AM.1
Aurela, Minna – 7CB.11, 8CB.4, 8CB.7, 9CA.6, 9WA.6, 10SA.27, 13SA.4
Aurell, Johanna – 7LC.6
Avenido, Aaron – 3ED.2, 10IM.11
Avery, Anita – 1IA.1, 2RA.5, 4AE.13, 7IM.14, 13CA.2
Axelbaum, Richard – 4DU.3, 1DU.5, 4DU.7, 10CB.12, 10DU.1
Ayala, Juan Pablo – 13MG.8
Ayres, Benjamin – 4OF.3
Azevedo, Eduardo – 1RA.7
Azevedo, Inês – 4AM.11
Azimi, Parham – 4IA.18, 6AE.4
Aziz, Khadija – 7MG.6
Azman, Intan Nabila – 5AM.7
Äijälä, Mikko – 10SA.12
B., Padmakumari – 6CC.6, 10RA.14
Baars, Holger – 4AP.22
Babcock, Hilary – 8IB.5
Babkin, Igor – 7IB.13
Babu, Suresh – 4RA.4, 7ES.6, 7ES.8, 7ES.17
Bacak, Asan – 7AC.14, 9MG.8
Baccarini, Andrea – 2RA.2, 4AC.20, 7AP.24, 10AC.6, 10AC.10
Bacco, Dimitri – 9CA.6
Bachman, Frank G. – 4IM.14
Bachmann, Volker – 7CD.6
Backman, John – 7TT.3
Bacon, Fred – 9IM.6
Bae, Gwi-Nam – 3CM.4, 4IA.2, 7IA.1
Bae, Min-Suk – 10TO.4, 11MG.5, 14SA.4
Bah, Oumar-Telly – 4RA.1
Bahk, Yeon Kyoung – 13TO.5
Bahloul, Ali – 1CM.5
Bahreini, Roya – 5AC.1, 8CB.5, 10CA.11, 12SA.7
Bai, Chun-Hsuan – 1CM.6
Bai, Hsunling – 14LC.5
Bai, Shengjie – 2CM.5
Baig, Nisar Ali – 10HA.18, 13TO.3
Bailey, Emily – 7IB.15
Bailey, Mark – 8IB.4
Bailis, Rob – 4IA.7, 12CB.5
Bainschab, Markus – 2IM.8, 7IM.1
Baker, Kirk – 6TT.3
Bakker-Arkema, Julia – 8AC.3
Balachandran, Sivaraman – 4IM.18
Balasubramanian, Rajasekhar – 6AE.5
Baldelli, Alberto – 2CA.7, 10CA.8, 11CB.4
Baltensperger, Urs – 2AC.5, 4AC.20, 4IA.1, 6CC.9, 7AC.7, 7AC.40, 8AC.4, 8MG.4, 9MG.5, 10AC.6, 10AC.10, 10SA.21, 10SA.25, 11HA.1, 12MG.8, 12SA.6, 13SA.1, 13SA.3, 14HA.5, 14HA.6
Ban, Jihee – 4AC.30, 4OF.7
Ban-Weiss, George – 4CA.35, 7MG.18
Banerjee, Natasha – 14LC.1
Banerjee, Tirthankar – 3RA.5, 12SA.5
Baniadam, Elham – 7MS.12
Bannan, Thomas – 9MG.8
Bansal, Onam – 4CA.23
Bao, Li – 7CM.4
Barbero-Colmenar, Elena – 7MS.1
Barbosa, Henrique – 2AP.1, 4AP.21, 12AC.2, 12AP.2
Barbosa, Susana – 5AP.6
Bardeen, Charles – 1AM.5
Barinelli, Anthony – 4RA.22
Barkani, Jamal – 10RA.5
Barmounis, Konstantinos – 7ES.13, 7LC.25, 10LC.5
Barnes, Emily – 12AC.6
Baratz, Adva – 7CC.11

Barnewall, Roy – 7IB.5, 9BA.8
Barratt-Boyes, Simon – 6IB.9
Barraza, Francisco – 2IA.2
Barreda, Santiago – 6IB.3
Barrera, Valter Armando – 4AC.21
Barreto Rios, Samuel – 10HA.6
Barsanti, Kelley – 7AC.28, 7AM.20, 8AM.1, 10CB.26, 11CA.6
Bartels, Jacob – 9WA.7, 10WA.7
Bartlett, Ryan – 7IB.7
Bass, Karl – 1MD.5
Basu, Saikat – 4MD.11
Batchelor, Simon – 11BA.3
Bates, Katherine – 10BA.18
Bates, Kelvin – 4AC.27, 4AM.28, 10BA.6
Bates, Steve – 12SA.7
Bates, Timothy – 1RA.1, 8ES.1
Batista, Carla E. – 12RA.6
Batmunkh, Tsatsral – 11MG.5
Battaglia Jr., Michael – 5AC.2
Bauer, Kelly – 14BA.2
Bauer, Paulus S. – 5IM.5, 5RA.7
Baumann, Karsten – 1AC.1, 5CD.6
Baumann, Werner – 10CB.14
Baumgardner, Darrel – 8MG.7, 11LC.8
Baumgartner, Bernhard – 5IM.5
Baumgartner, Jill – 10DU.5
Bäger, Daphne – 10WA.3
Bässler, Michael – 8LC.6
Beall, Charlotte – 12BA.4
Bean, Jeff – 4AC.3
Becagli, Silvia – 2RA.6
Becera, José António – 3IA.5
Beck, Katie – 7IB.26
Beck, Lisa – 7AP.29
Beckhoff, Burkhard – 10IM.6
Becnel, Tom – 10LC.8
Beddows, David – 10SA.30, 12MG.3
Beecroft, Andrew – 7AE.8
Beedham, Richard – 11BA.3
Beekmann, Matthias – 4AM.23
Beezhold, Donald – 6IB.8
Begum, Bilkis – 12MG.7
Behrends, Brigitte – 13CB.4
Behrenfeld, Michael – 1RA.1
Beier, Thomas – 7AC.26
Beig, G. – 12MG.1, 13CA.8
Beigl, Michael – 7LC.8
Bein, Keith – 6CD.9, 7CD.9
Belalcazar, Luis Carlos – 13MG.8
Belegante, Livio – 4RA.25
Belinsky, Steven – 10TO.9
Belis, Claudio – 12SA.2
Belka, Miloslav – 10HA.4, 11HA.2
Bell, David – 1AM.1, 2AC.5, 4IN.13, 5AC.7, 6CC.3, 8AC.4, 8AM.2, 11AC.8, 11HA.1
Bell, Thomas – 1RA.1
Bellendorf, Alexander – 4MD.1
Belser, Jessica – 6IB.6
Belser, Phoebe – 2AP.8
Beltran, Itza – 4IA.8
Ben, Platt – 10CB.10
Bendl, Jan – 7TT.10
Benedict, Katherine – 11IM.7
Bengtsson, Per-Erik – 10CB.7
Benito, Jesica Gisele – 13AP.8
Benjamin, Michael – 11BA.4
Bennett, William – 1MD.2, 4MD.11
Berden, Giel – 5IM.7
Beres, Nicholas D – 8ES.7
Beresnev, Sergey – 7AM.18
Berg, Elizabeth – 6CD.9, 7CD.9
Berg, Larry – 1AM.1, 11AC.8
Berg, Matthew – 4AP.14, 7IM.27, 7LC.4, 12AP.5
Bergelt, Paul – 4AE.16, 10HA.11
Berger, Corentin – 4AC.34
Bergin, Michael – 11LC.7
Bergmann, Alexander – 2AP.2, 2IM.8, 4IM.14, 7IM.1, 9IM.5, 13AP.1, 13IM.5
Bergquist, Bridget – 4IA.14
Bergstrom, Robert – 4AM.23
Berke, Andrew – 7AC.4
Berkemeier, Thomas – 1AC.6, 5AP.5, 8AC.2
Berkland, Cory – 8IB.4
Berlinger, Balázs – 9WA.1
Bernardoni, Vera – 10SA.31, 14CA.3
Bernd, Karen K. – 11HA.6
Bertó, Michele – 12AP.8
Bertram, Allan – 1IN.7, 4IN.16, 8AM.2
Bertram, Timothy – 4RA.14
Bertrand, Amelie – 7AC.7, 7AC.40, 8AC.4, 9MG.5
Besaury, Ludovic – 10BA.10
Besombes, Jean-Luc – 7CB.5, 10SA.1
Bessagnet, Bertrand – 4AM.4, 4AM.23, 14AC.2
Betha, Raghu – 1RA.1, 2CA.2, 8ES.1
Beydoun, Hassan – 3IN.1
Beyersdorf, Andreas – 7MG.8
Bezantakos, Spyridon – 7ES.13, 9WA.8, 10IM.9
Bezantakos, Spyros – 7LC.25
Bezerra, Marcio – 9WA.7, 10WA.7
Bhandari, Janarjan – 5CA.8
Bhandari, Sahil – 2AC.1, 8MG.6, 11MG.8, 12LC.1
Bhandarkar, Upendra – 14DU.4
Bhardwaj, Purnima – 7MG.23, 10MG.4
Bhat, Tara – 7AC.4
Bhatia, Divesh – 7MG.16
Bhatia, Sonja – 6CC.8
Bhatnagar, Aruni – 4AE.14
Bhattarai, Chiranjivi – 4AC.42, 8ES.7, 10DU.4
Bhattu, Deepika – 9MG.5, 10MG.17, 10SA.25, 11AC.3
Bhave, Prakash – 3RA.2
Bherwani, Hemant – 7MG.21
Bhogineni, Vasudha – 5AM.1
Bhujel, Amit – 3RA.2, 8ES.6
Bi, Chenyang – 3IA.3
Bi, Kai – 2IN.8
Bian, Huisheng – 2IN.4, 5AC.1, 8ES.2, 11CA.1, 12AC.1
Bian, Qijing – 4AP.10, 4CA.1, 7TT.1
Bianchi, Federico – 2AC.6, 4AC.22, 7AP.29, 7MG.13, 10AC.2, 10AC.7, 10AC.8, 10AC.13, 11MG.7, 13AC.2, 13AC.8
Bianhong, Zhou – 10SA.3
Bierkandt, Frank – 4AE.16, 10HA.11
Bigi, Alessandro – 10SA.31
Biglari, Amir – 10LC.8
Bilby, David – 8LC.4
Bilde, Merete – 2AP.6
Bilsback, Kelsey – 9CA.1, 12CB.6
Binkowski, Francis – 7AM.19
Birch, M. Eileen – 7IM.17, 10HA.2
Birdsall, Adam – 6AC.4

Birkenstock, Johannes – 2MS.6
Birmili, Wolfram – 1IA.6, 13SA.5
Bischof, Oliver F. – 7AP.39, 10IM.10
Bisht, Deewan S. – 2RA.7, **10MG.3**, 10MG.6, 10MG.17, 10SA.25, 11AC.3
Biskos, George – 5MS.1, 7ES.13, 7LC.25, **9WA.8**, 10IM.9, 10LC.5
Bist, Sanjay – 8ES.8
Biswas, Jhuma – **4RA.13**
Biswas, Pratim – 1DU.3, 3ED.6, 3MD.5, 3MS.3, 3MS.5, 4CM.8, 4IM.8, 4MD.3, 4MS.4, 4MS.6, 4MS.11, 4MS.12, 4MS.20, 5CM.8, 5IM.6, 6AM.7, 6MS.4, 6MS.5, 6MS.7, 6MS.9, 7AM.2, 7AP.23, 7CD.4, 7IM.12, 7MS.4, 7MS.9, 7MS.10, 7MS.11, 8AE.3, 8IB.5, 9CA.2, 9LC.6, 10AP.3, 13AP.5, 13CB.1, 13CB.3, 14AP.6
Bitter, Chelsea – 4RA.22
Bittner, Ashley – **12CB.7**
Blachere, Françoise – 6IB.8
Black, Marilyn – 10TO.7
Blair, Jeff – 7LC.6
Blair, Steven – 7LC.6
Blake, Donald – 7MG.8, 11MG.1, 12AC.1
Blake, Nicola – 12AC.1
Blanco-Alegre, Carlos – 4IA.3, 7IA.4, 10SA.6
Blomqvist, Göran – 4IM.15
Blondeau, Patrice – 3IA.5
Bloom, Erica – 4IA.13
Bloss, Bill – 10SA.29
Bloss, Matthew – 7CB.11, 8CB.7, 9WA.6
Bluvshstein, Nir – 4OF.6
Boarino, Luca – 10IM.6
Boc, Susan – 1MD.5
Bodnar, Eszter – 7MS.1
Boe, Timothy – 7IB.22
Boesen, Thomas – 1IN.5
Boghoz, Arin – 1OF.7
Bohannon, Kyle – 7IB.9
Bohgard, Mats – 7IB.19
Boies, Adam M – 3MS.6, 4MS.16, 4MS.24, 5MS.7, **10AP.8**, 10IM.14, 10LC.16, 11LC.4, 13IM.6, **14AP.4**
Bojarska, Marta – 1CM.2
Bojjagani, Sreekanth – 10MG.15
Bolaños-Rosero, Benjamin – 10HA.6
Bologa, Andrei – 10CB.14
Boman, Christoffer – 10CB.7, 12CB.8
Boman, Johan – 7ES.12
Bonanno, Daniel – 1IN.8, 1RA.8
Bonasoni, Paolo – 9CA.6
Bond, Tami – 4AC.27, 7ES.9
Bondy, Amy – 9AC.2
Bonnaire, Nicolas – 4CA.8, 10SA.1, 10SA.5
Boon, Adrianus – 8IB.5
Bope, Ashleigh – **4IA.16**
Boragapu, Raja – **6CC.6**
Borduas-Dedekind, Nadine – **1IN.6**
Boris, Alexandra – 7AC.41, 13CA.6
Borlaza, Lucille Joanna – 10TO.4
Borovinskaya, Olga – 7IM.31
Borrmann, Stephan – 5RA.8, 11LC.8
Bosnak, Cynthia – **7IM.8**
Bossmann, Stefan – 1DU.2, 4MS.5
Botthoff, Jon – 12SA.7
Bottiger, Jerold – 1MD.6, 7CD.2
Bottle, Steven – 4AC.12
Boucher, Olivier – 5AM.3
Boucher, Richard – 1MD.2
Boudenne, Jean-Luc – 6CC.7
Bougiatioti, Aikaterini – 4CA.30, 7CD.19
Bourouiba, Lydia – **6IB.1**
Bouvier, Nicole M. – 6IB.3
Bouzidi, Hichem – **4AC.17**
Bova, Gregory – 7IB.8
Bowen, Larry – 8IB.4, 14BA.5
Bower, Keith – 11CA.2
Bowling, Jennifer – 6IB.9
Bowman, Frank – **7CC.3**
Boydston, Jeremy – 7IB.7, **7IB.10**, **8IB.3**
Boyer, Hallie – **5IM.4**
Bozzetti, Carlo – 13SA.3
Bradburne, Christopher – 7BA.18
Braden, Ellen – 10BA.4
Bradley, Kevin – 8AE.3
Brain, Joseph D. – 10HA.11
Brandt, Richard – 11AC.4
Brauer, Michael – 6AE.7, 12MG.2
Braun, Karl – 10WA.4, 14LC.3
Brege, Matthew – **4AC.39**, 4IM.13
Breitenlechner, Martin – 4AC.19, **11AC.6**
Brenn, Günther – 10HA.11
Briganti, Gino – 4AM.23
Brilke, Sophia – **14RA.2**
Brito, Joel – 2AP.1, 4AP.21, 12AP.2, 12RA.8
Brock, Charles – 1AM.5, 2IN.4, 2RA.3, 5AM.8, 8ES.2, 11CA.1
Broda, Kurtis – 7AP.28
Brook, Jeff – 7ES.16, 12AC.5
Brooks, James – **4RA.4**, **5RA.8**
Brown, Anthony – 7CB.14
Brown, David – **4MD.9**
Brown, Emma – 6IB.5
Brown, Richard – 8CB.3
Brown, Ryan – 7LC.1
Brown, Steven G. – **4CA.32**
Brown, Steven S. – 4OF.3, 4OF.6, 12AC.8
Brown, William – 8IM.4, 9IM.6, 10CA.1
Broßell, Dirk – 7CD.6
Brubaker, Thomas – **3IN.5**, 4IN.10, 4IN.11
Brucat, Philip – 4ED.1
Brune, William – 1OF.1, **1OF.5**, 4OF.3, 4OF.6, 7MG.8, 14HA.2
Brunet, David – 10HA.16
Bryden, Wayne – 8IB.7
Brüggemann, Martin – 14SA.1
Bryngelson, Nathan – 4IM.23, 9LC.7
Buatier de Mongeot, Francesco – 13CB.5
Buchholz, Angela – 4AC.29, 4OF.8, 5AP.3, 7AC.15, **7AC.19**
Buchholz, Bert – 6CD.7, 7CB.1
Buchner, Raymond – 2MS.3
Bucholski, Albert – 3MD.3
Buckley, Brian – 10HA.6
Buckley, David – 14AP.3
Budde, Matthias – 7LC.8
Budhavant, Krishnakant – 7TT.3
Budisulistiorini, Sri Hapsari – 1AC.1, 7AC.11
Bui, Alexander – 4AC.16, 8AC.9, 12AC.6
Bui, Thaopaul – 2RA.3
Buivydiene, Dalia – 1CM.4
Bukowiecki, Nicolas – 4AP.22
Bullard, Robert – 1AM.3, 1RA.3
Bundke, Ulrich – **3RA.6**
Bunker, Kristin – 14HA.2
Burdette, Tret – 14AC.6

Burke, Alyssa – 4MD.11
Burke, Michael – 3MD.4
Burkhart, Matthew – 9CA.7
Burnett, Richard T. – 12MG.2
Burnham, Carey-Ann – 8IB.5
Burrows, Susannah – 2IN.2, 12AC.3
Burtscher, Heinz – 10CA.2
Buryak, Galina – 7BA.23, 7IB.13
Buseck, Peter – 13BA.8
Buser, Michael – 3CM.3
Busick, David – 1MD.2
Butcher, Thomas – 10DU.3
Buters, Jeroen – 6CD.7
Butterfield, Anthony – 10LC.8
Butwin, Mary K. – 8ES.4
Buysse, Pauline – 4AC.34
Bührer, Tobias – 10HA.9
Bycenkiene, Steigvile – 10SA.26
Bychkova, Viltoria – 7TT.7
Byeon, Jeong Hoon – 5MS.6, 7MS.2
Bzdek, Bryan R. – 6AC.6, 7AC.2, 7AC.17
C., Priyanka – 10BA.25
C. Shukla, Pravesh – 7CD.11
Cabo Verde, Sandra – 2IA.7
Cabot, Ross – 10HA.14
Caciula, Adrian – 7IB.10
Cados, Troy – 12LC.7
Cai, Mengxuan – 10LC.11
Cai, Mingfu – 7AC.21
Cai, Runlong – 2IM.2, 2IM.4, 8IM.8
Cai, Siyi – 12CB.3
Caiazzo, Laura – 2RA.6
Cain, Kerrigan – 6TT.9, 8AC.7, 13CA.5
Calderón, Leonardo – 10BA.2, 10HA.6
Calfee, M. Worth – 7IB.22
Calinga, Angelo – 1OF.7
Call, Charles – 8IB.7
Calpini, Bertrand – 11AP.6
Calvo, Ana Isabel – 4IA.3, 7IA.4, 10SA.6
Calzolai, Giulia – 2RA.6, 4AC.21, 10RA.1, 10SA.29, 10SA.31
Campbell, David – 8AE.8
Campbell, John – 7LC.1
Campbell, Matthew – 11CB.6
Campbell, Steven J. – 4AC.12, 11HA.4
Campuzano-Jost, Pedro – 4AC.7, 4CA.26, 4OF.3, 5AC.1, 6IM.9, 7MG.8, 9MG.1, 11MG.1, 12AC.1
Camredon, Marie – 8AM.1
Canagaratna, Manjula – 1OF.7, 3RA.4, 4OF.2, 4OF.3, 6IM.9, 7AP.40, 7CB.18, 8AC.1, 8AC.8, 9AC.5, 9MG.8, 11CB.8, 11MG.1
Canet, Isabelle – 10BA.10
Canha, Nuno – 2IA.7, 3IA.5, 4AE.9, 6AE.8
Canonaco, Francesco – 4CA.8, 8MG.4, 10SA.25, 13SA.7
Cantin, Daniel – 9LC.3
Canu, Michael – 7LC.20
Cao, Junji – 4CA.10, 4RA.2, 4RA.12, 7CB.7, 7CD.5, 7MG.2, 12MG.8, 8MG.4, 10SA.8, 10SA.17, 11MG.3
Cao, Leo N.Y. – 2IM.5, 5CD.3
Cao, Qingfeng – 3CM.6, 7CM.7
Cao, Ruijie – 2CM.5
Capek, Tyler – 10RA.15
Caponi, Lorenzo – 14CA.3
Cappa, Christopher – 1OF.3, 2CA.2, 4CA.2, 4CA.14, 5CA.7, 6IB.3, 8AM.3, 8AM.4, 9AM.5
Cappelletti, Andrea – 4AM.23
Cappelletti, David – 2RA.6, 7AP.29, 12BA.5
Carbone, Felipe Jose – 3ED.5
Carbone, Francesco – 11CB.8
Carbone, Samara – 2AP.1, 3ED.5, 4AP.21, 7MG.4, 12AC.2, 12AP.2, 12RA.8, 13CA.6
Carlton, Annmarie – 4CA.33, 9AC.8
Carmona, Christian – 3AC.1
Carney, Jonathan – 6IB.9
Carol, Leah – 7BA.19, 7BA.21
Carpenter, David – 14HA.4
Carpentier, Yvain – 4AC.34, 4CA.28, 8CB.8, 9AP.8
Carrasco-Munoz, Antonio – 7MS.1
Carreras-Sospedra, Marc – 9AC.8, 13MG.3
Carrico, Christian – 13CA.7
Carroll, Peter – 9LC.2
Carslaw, Ken – 5AM.6, 6CC.4, 7CC.5, 9AM.8
Carter, Ellison – 10DU.5
Carter, William P. L. – 7AM.20
Cartledge, Benton – 7CB.17
Carvalho, Ricardo – 12CB.8
Casagrande, Chiara – 12BA.5
Cassagnes, Laure-Estelle – 11HA.1, 14HA.5, 14HA.6
Casson, Paul – 4CA.33
Cassotto, Roberto – 9MG.5
Castañer, Ramón – 10RA.1
Castillo, Alejandro – 12BA.6
Castillo, Ariana – 11IM.1
Castillo, Jose L. – 2MS.7, 7MS.5
Castro, Amaya – 4IA.3, 7IA.4, 10SA.6
Castro, Telma – 9MG.7, 10MG.18
Castruccio, Stefano – 7AE.3
Casuccio, Gary – 12SA.8, 14HA.2
Caubel, Julien – 6AE.7, 9LC.1, 12LC.7
Caudillo, Lucia – 10MG.18
Cazaunau, Mathieu – 4AC.36
Ceburnis, Darius – 3AC.4, 6CC.5, 14DU.2
Ceci, Elisa – 12BA.5
Celebi, Yusuf – 10DU.3
Celik, Ismail – 10CB.12
Cerqueira, Mário – 4IA.5, 7IA.4
Chaabane, Djamaledine – 4RA.18, 7CC.7
Chacartegui, Ricardo – 3IA.5
Chadha, Tandeep – 3ED.6, 4MD.3, 5CM.8, 7MS.4, 9LC.6
Chae, Hoseung – 7IM.25
Chahl, Harjindar Singh – 14AP.5
Chakrabarty, Rajan K. – 3OF.2, 4CA.13, 4CA.25, 4DU.5, 4MS.20, 5CA.5, 7AP.34, 7AP.37, 7AP.38, 9CA.2, 9LC.6, 10AP.5, 10AP.7, 10AP.9, 10CA.3, 10CA.5, 10CA.12, 10CA.13, 10CA.15, 10MG.6, 11AP.5, 11CA.4, 12AP.1, 13AP.5, 14AP.1
Chalupa, David C. – 7LC.18, 11LC.1
Chambliss, Sarah – 6AE.7, 9LC.1
Champion, Julie – 7CD.18
Champion, Wyatt – 2IA.3, 3OF.6, 4IA.15, 10HA.3
Chan, Arthur W. H. – 4AC.31, 4IA.14, 4OF.9, 10LC.11
Chan, Chak K. – 3AC.2, 7AC.13, 7AC.21, 12SA.1
Chan, Hak-Kim – 1MD.3
Chan, Man Nin – 1AC.2, 6IM.3
Chan, Tak – 7ES.16

Chan, Tommy – 7MG.13, 7MG.24, 13AC.2
Chand, Bhilok – 7ES.12
Chand, Ramesh – 3MD.4
Chandler, David – 7AP.40
Chandra, Indra – 4AP.1, 14RA.6
Chandrala, Lakshmana – 12IM.5
Chang, Cheng – 1CM.8
Chang, Chia-Wei – 7LC.27
Chang, Chih-Ching – 13TO.7
Chang, Hankwon – 4MS.2, 7MS.3, 7MS.6
Chang, Ken-Hui – 4CM.5
Chang, Qianyun – 5CM.5
Chang, Rachel – 6CC.8, 10RA.10
Chang, Shih-Yu – 10RA.6
Chang, Shuenn-Chin – 7LC.12, 9LC.4, 10LC.2
Chapman, Karena – 1DU.7
Chapnick, Melissa – 10LC.9
Charan, Sophia – 5AP.4, 11IM.2
Charley, Perry – 2IA.3
Charnawskas, Joseph – 1IN.8, 1RA.8, 4IN.14
Chartier, Ryan – 10LC.12
Chate, Dilip – 10MG.3
Châteauneuf, François – 9LC.3
Chatfield, Robert – 4AE.11
Chaubey, Jai – 10RA.10
Chaudhry, Zahra – 7BA.18
Chavalmane, Sanmathi – 7IM.12
Chavez, Angela – 4AE.5
Chazallon, Bertrand – 4CA.28
Chazalon, Louise – 4AP.18
Chazeau, Benjamin – 5RA.5
Che, Xiaoyu – 7IB.10
Chee, Sabrina – 5AC.4, 7AC.28
Chen, Chia-Li – 1RA.1, 2CA.2, 8ES.1
Chen, Chia-Pei – 10LC.2
Chen, Chih-Chieh – 4CM.6, 10IM.4
Chen, D. – 8IB.7
Chen, Da-Ren – 2CM.4, 3MS.2, 4IM.9, 4IM.24, 7AM.13, 13IM.8
Chen, Dexian – 7AP.24, 10AC.15, 13AC.6
Chen, Dong – 7AC.18
Chen, Dongping – 11CB.1
Chen, Fan-Lun – 7LC.12, 10LC.2
Chen, Gang – 10LC.11
Chen, Gao – 7CC.13
Chen, Hangfei – 1OF.4, 11MG.7
Chen, Hanlin – 12BA.2
Chen, Haoxuan – 6CD.8, 10TO.3, 11BA.5, 14BA.6
Chen, Hong – 4MD.3
Chen, Jack – 9AM.3
Chen, JianMin – 2CM.2, 4CA.11, 7AC.6, 10TO.5
Chen, Jie Rou – 11AC.2
Chen, Jin – 6CD.2, 7CD.12
Chen, Jyh-Larng – 10SA.11
Chen, Kaiyu – 4RA.5, 7AE.2
Chen, L.W. Antony – 9CA.3
Chen, Laiguo – 4RA.2
Chen, Ling-Jyh – 14LC.2
Chen, Lung-Wen Antony – 10SA.17
Chen, Mindong – 3CM.1, 10MG.14, 12SA.6
Chen, Modi – 10IM.12, 13IM.1
Chen, Pei-Shih – 7IB.1, 7IB.16
Chen, Qi – 1OF.8, 3OF.4, 4OF.5, 7MG.25, 11MG.2
Chen, Sheng-Chieh – 1CM.1, 3CM.6, 7CM.7, 7IM.10
Chen, Shui-Jen – 4CM.5, 7CB.15, 7CB.16, 10CB.5
Chen, Stacy – 6CD.2
Chen, Wei-Hsuan – 13TO.7
Chen, Wei-Ren – 10RA.6
Chen, Xi – 2CA.6, 9IM.7, 10RA.7
Chen, Xiaole – 4AM.2, 6AM.5
Chen, Xiaoping – 4MD.10, 10AP.6
Chen, Xiaoshuang – 14AP.3
Chen, Xiaotong – 13IM.8
Chen, Xuemeng – 5AP.6, 10AC.8, 13AC.8
Chen, Yen-Chi – 1CM.6
Chen, Yi – 9WA.2, 10WA.2
Chen, Ying – 6IM.8, 7AC.27
Chen, Ying-Jyun – 8AE.9
Chen, Yu-Cheng – 1IA.8, 10SA.11
Chen, Yu-Ting – 9LC.4
Chen, Yunbo – 2IN.8
Chen, Yunle – 4AC.26, 4CA.20, 7AC.23, 7IM.23, 13SA.8
Chen, Yuzhi – 1AC.1, 1AC.4, 4AC.5, 7AC.11, 7AC.25, 9AC.5, 14AC.1
Chen, Z.J. – 6AM.4
Chen, Zhihao – 12AC.7
Cheng, Chunlei – 7AC.13
Cheng, Meng-Dawn – 4IM.30
Cheng, Mengtian – 7MG.17
Cheng, Peng – 4RA.2
Cheng, Perry – 3IN.5, 4IN.10
Cheng, Ping – 6IM.8
Cheng, Tsun-Jen – 4AE.3
Cheng, Xi – 1OF.8, 3OF.4, 7MG.25, 11MG.2
Cheng, Yafang – 12AP.2
Cheng, Yu-Hsiang – 7IA.3
Cheng, Zezhen – 7AC.5, 9CA.4, 10CB.18
Cheong, Seungpyo – 4AP.25
Cheskis, Sergey – 2MS.2
Chesnutt, Jennifer – 7CM.2
Cheung, Joe Hing Cho – 6TT.6, 7TT.5
Cheung, Philip – 9AM.3
Cheung, Ross – 8LC.2, 12LC.8
Chevalier, Karine – 1RA.4
Chi, Xuguang – 2AP.1, 4AP.21
Chiang, Hung-Che – 10SA.11
Chiang, Yung-Chen – 4IM.12
Chiapello, Isabelle – 11AP.3
Chiari, Massimo – 2RA.6, 10SA.29
Chiari Couver, Lucas – 3ED.5
Chien, Chih-Hsiang – 4ED.4
Chillrud, Steven – 2IA.4
Chim, Man Mei – 1AC.2
Chin, Mian – 2IN.4, 11CA.1, 12AC.1
China, Swarup – 1IN.8, 1RA.5, 1RA.8, 2RA.2, 4IN.14, 5CA.8, 10RA.15, 12AC.3
Chisholm, Sallie – 4IN.1
Chng, Ewe Jiun – 4IM.5
Cho, Gangnam – 7IM.25
Cho, Hee-Joo – 11MG.5
Cho, Jae-ho – 7LC.15
Cho, Seung-Hyun – 2IA.4
Cho, Woohyung – 4MS.21
Cho, Yusung – 7BA.12, 7BA.14
Choël, Marie – 11AP.3
Choi, Indae – 4DU.8
Choi, Ji-Hyuk – 4MS.2
Choi, Jungan – 11BA.7
Choi, Kyomin – 7IA.2

Choi, Mansoo – 2IM.7, 4DU.8, 4MS.15, 4MS.21, 5MS.4
Choi, Yoon-Hyeong – 10TO.4
Chong, Jihyo – 11MG.5
Chou, Cédric – 1IN.7
Chou, Chang-Chin – 4CM.5
Chou, Charles C.K. – 6TT.6, 7TT.5, 10RA.6
Choudhary, Palash – 5CD.7
Choudhary, Ram Chandra – 4MS.4
Choudhary, Vikram – 4AC.8, 4CA.7
Choularton, Tom – 11CA.2
Chow, Judith – 4CA.13, 9CA.3
Chowdhury, Pratiti Home – 7CD.16
Chowdhury, Sourangsu – 5CD.7
Christensen, Bryce – 10LC.3
Christiansen, Amy – 4CA.33
Christiansen, Megan – 4IM.23, 4RA.14, 9LC.7
Christiansen, Sigurd – 2AP.6
Chrit, Mounir – 14AC.2
Chu, Biwu – 1AM.6, 7MG.13, 7MG.24, 13AC.2
Chu, Chia-Ren – 6TT.8
Chuang, Hsiao-Chi – 4AE.3, 7CB.7, 8AE.9
Chuang, Wayne – 2AC.4
Chukwuto, Humphrey – 7CC.3
Chun, Sungnam – 4CM.17, 7IM.35, 7TT.14
Chung, H. Young – 7CM.9
Chung, Hyeok – 7LC.15
Chung, Kyu Hyuck – 10TO.4
Chung, Taekho – 4OF.7
Chunyu, Kang – 10HA.8
Church, Tanya – 3MD.2
Chylek, Petr – 13CA.7
Ciarelli, Giancarlo – 4AM.23
Cirimotich, Chrs – 7IB.5
Ciuraru, Raluca – 4AC.34
Ciuzas, Darius – 1CM.4, 7IA.5
Clack, Herek – 5CM.1, 7BA.22
Claflin, Megan – 7AC.37
Clarisse, Lieven – 11AP.7
Clark, Sierra – 10DU.5
Clausen, Per Axel – 2IA.6, 7CD.11
Clegg, Simon – 5AC.1
Clements, Andrea – 7LC.2
Cloutier, Yves – 1CM.5, 9WA.3
Cochran, Samuel – 4IA.16
Cocker III, David R. – 7AC.34, 7AC.38, 7AM.20, 8CB.1, 8CB.5, 10CB.1, 14AC.5
Coe, Allison – 4IN.1
Coe, Hugh – 4IN.9, 4OF.2, 4RA.4, 5RA.8, 7AC.14, 7AP.28, 7AP.30, 9MG.8, 10MG.12, 11CA.2, 13MG.4
Coelho, Frederico – 3ED.5
Coffey, Evan – 7CB.9
Coggon, Matthew – 10BA.6, 13CA.1
Cohen, Aaron – 12MG.2
Cohen, Ronald – 7MG.8
Colarco, Peter – 2IN.4, 11CA.1, 12AC.1
Colbeck, Ian – 6AE.2, 7AE.6, 7BA.7, 7MG.6, 10BA.23
Colenutt, Claire – 6IB.5
Colette, Augustin – 4AM.23
Collaboration, CLOUD – 4AC.20, 5AM.6, 7IM.15, 9AM.8, 10AC.6, 10AC.10, 10AC.15, 13AC.1
Collaud Coen, Martine – 7TT.12, 11AP.6
Collet, Serge – 7CB.5
Collett, Jeffrey – 7AC.39, 11IM.7
Collier, Sonya – 13CA.2
Collins, Don – 8AC.9, 10BA.16, 11BA.1, 11IM.1
Colussi, Agustin – 2AC.3
Comite, Antonio – 12BA.8
Comite, Valeria – 7IA.10
Commame, Roisin – 12AC.1
Commodo, Mario – 10CB.16
Conca, Eleonora – 4RA.30
Cong, Lucy – 7IB.9
Connan, Olivier – 4RA.1, 4RA.20, 5RA.1
Conner, Teri – 7LC.2, 7LC.5
Connolly, Paul – 6CC.4, 13MG.4
Conny, Joseph – 4AP.19
Conrad, Bradley – 8IM.9, 10CA.6
Contreras Barbosa, Yadert – 8AE.2, 13MG.8
Cooke, Colin A. – 4IA.14
Cooper, Casey – 7IB.12
Copeland, Scott – 7AC.39, 12RA.1
Coppalle, Alexis – 7CB.3
Corbin, Joel – 4AP.22, 4CA.16, 5CA.6, 6CC.9, 7AC.40, 10IM.2, 12AP.6, 13CB.5, 13CB.7
Corey, Jonathan – 4IM.18, 11LC.6
Corley, Richard – 7TT.9
Cormier, Jean-François – 9LC.3
Corno, Gianluca – 12BA.8
Corral Arroyo, Pablo – 7AC.16
Correa, Thais – 4RA.28
Correia, Carolina – 2IA.7, 4AE.9, 4AE.15, 6AE.8
Corsi, Richard – 10BA.4
Corson, Elizabeth – 10BA.1
Corson, James – 4ED.2, 7AP.26, 12AP.4
Cosep, Enrique – 10TO.4
Costa, Camilla – 12BA.8
Costa, Renata F. da – 4RA.28
Côté, Caroline – 10BA.11
Cotterell, Michael I. – 11CA.2
Cotty, Stephen – 1DU.7
Coulais, Catherine – 13BA.6
Coulomb, Bruno – 6CC.7
Coulson, Guy – 6TT.7, 7LC.24, 11LC.3
Couvidat, Florian – 4AM.4, 4AM.23, 14AC.2
Covino, Stefano – 12BA.5
Cox, Jennie – 2IA.4
Cox, Joshua L. – 4AC.19, 11AC.6
Cox, Steve – 6IB.7
Craft, Elena – 10IM.8
Craig, Rebecca – 4AC.5, 6AC.2, 7AP.27, 9AC.5
Craige, Collin – 3CM.3
Crawford, Ian – 10BA.7, 11CA.2
Crawford, Todd – 7CB.8, 10DU.6
Creamean, Jessie – 1IN.1
Crespo, Javier – 10RA.1
Crippa, Paola – 7AE.3
Crippen, Kent – 4ED.1
Cristiana, Rizzi – 7CC.10
Cristofanelli, Paolo – 9CA.6
Crocchianti, Stefano – 2RA.6, 12BA.5
Crosbie, Ewan – 1RA.1, 7CC.13, 13CB.7
Crosland, Brian – 10CA.6
Cross, Eben – 8LC.8, 10LC.9, 12LC.1, 13MG.5
Croteau, Philip – 4CA.2, 6IM.9, 7IM.23, 9IM.6
Crounse, John – 5AC.1, 7MG.8
Crow, Walt – 12LC.6

Crown, Kevin – 11BA.1
Crumeyrolle, Suzanne – 11AP3
Cryle, Philip – 4AM.17
Csiszar, Ivan – 9AM.4
Cui, Kangping – 4AM.8
Cui, Tianqu – 1AC.1, 7AC.25, 14AC.1
Cui, Yuyan – 2RA.1
Cullen, Cody – 6CD.2, 7CD.12
Cunha-Lopes, Inês – 2IA.7, 4AE.9, 4AE.15
Currie, Bart – 8IB.1
Curtis, Jeffrey H. – 7AM.15, 7TT.6
Curtius, Joachim – 7IM.24, 10AC.9, 13AC.4
Cuth, Adrian Ionut – 2IA.1
Cuvelier, Kees – 4AM.23
Cyrus, Josef – 7LC.8
Cysneiros de Carvalho, Karolina – 1IA.3
Czech, Hendryk – 6CD.7, 7CB.1, 13CB.5
Czege, Jozsef – 10BA.17
Cziczko, Daniel – 3IN.6, 4IN.1, 4IN.15, 5IM.1, 13BA.8
D'Ambro, Emma L. – 8AM.2
D'Anna, Andrea – 10CB.16
D'Anna, Barbara – 6CC.7
D'Arcy, Julio – 6MS.9
Dabdub, Donald – 4AC.28, 9AC.8, 12MG.6
Dabek-Zlotorzynska, Ewa – 14SA.3
Dabisch, Paul – 7IB.7, 7IB.10, 7IB.23, 8IB.3
Dada, Lubna – 2AP.3, 4AC.22, 7AP.24, 7MG.13, 10AC.6, 10AC.7, 10AC.9, 10AC.10, 13AC.1, 13AC.2, 13AC.4
Dahlqvist, Camilla – 11HA.8
Dahutia, Papor – 4RA.13
Dal Maso, Miikka – 4RA.24, 5RA.4, 8CB.7, 13SA.4
Dalleska, Nathan – 2AC.8
Damastuti, Endah – 5RA.6
Dameto de España, Carmen – 6CC.1
Damit, Brian – 7BA.13, 7BA.26
Dandocsi, Alexandru – 4RA.25, 10SA.22
Danelli, Silvia G. – 12BA.8, 14CA.3
Dang, Audrey – 1IA.3, 4RA.19, 7AC.36, 8AC.2, 10LC.9
Danikiewicz, W. – 4AC.2
Dannemiller, Karen C. – 3IA.4, 4IA.16
Darbyshire, Eoghan – 5RA.8
Darynova, Zhuldyz – 10MG.21, 11MG.4
Das, Ananya – 13TO.3
Das, Darpan – 14DU.4
Das, Rupesh M – 4AM.25
Dastanpour, Ramin – 2CA.7, 11CB.4
Date, Gauri – 1IA.3
Daub, Brandon – 9CA.3
Daube, Bruce – 12AC.1
Daube, Conner – 4CA.2
David, Marc – 4AC.36
David, Robert O. – 1IN.6
David, Wolloscheck – 14BA.2
Davidovits, Paul – 3IN.6, 5CA.7, 7AP.40
Davidson, Cliff – 12IM.3
Davidson, Jon – 4IN.16
Davies, Carwyn – 7IB.4, 8IB.9
Davies, James F. – 1AC.2, 6AC.3, 6AC.7
Davies, Nicholas – 11CA.2
Davis, Aika – 10TO.7
Davis, Allison – 4AC.44
Davis, Michael – 7LC.1
Davis, Ryan – 6AC.7
Dawes, Alexander – 11HA.6
Dawson, David – 7IB.7, 8IB.3
Dawson, Matt – 7AM.14
Dawson-Elli, Neal – 12SA.4
Day, Douglas – 4OF.3, 5AC.1, 6IM.9, 7MG.8, 8AC.6, 9MG.1, 11MG.1, 12AC.1
Dällenbach, Kaspar Rudolf – 7MG.13, 10SA.21, 13AC.2, 13SA.1, 13SA.3, 14HA.5, 14HA.6
de Boer, Gijs – 1IN.1, 1IN.2
De Falco, Gianluigi – 10CB.16
de Foy, Benjamin – 14SA.4
de Gouw, Joost – 4AC.45, 5AC.1, 7MG.8, 9MG.1, 11IM.3, 11MG.1, 13CA.1
De Haan, David – 3AC.1, 7AC.31
De Iuliis, Silvana – 7IA.10
de Jesus, Alma Lorelei – 12MG.3
de La Verpilliere, Jean – 5MS.7, 10AP.8
De Leon-Rodriguez, Natasha – 10BA.6
De Loera, Alexia – 3AC.1
de Oliveira Alves, Nilmara – 7CD.18
de Sá, Suzane – 4OF.3, 9AC.4, 10RA.11
de Souza, Rodrigo A. F. – 1AC.1, 12RA.6
de Vera, Joan – 4IA.14
De Volder, Michael – 5MS.7
de Winter, Robin – 2CM.7
Dearden, Christopher – 6CC.4
Dearring, Rhapsody – 7IB.14
Deb, Manas Kanti – 14AC.3
Debosz, Jerzy – 10SA.4, 4CA.29
Debus, Bruno – 4CA.27, 7AC.41, 7IM.21
DeCarlo, Peter – 1IA.1, 2RA.5, 3RA.2, 4AE.13, 4CA.19, 8ES.6
Decesari, Stefano – 4AC.39, 14RA.3, 14RA.4
Decuq, Céline – 4AC.34
Dedulle, Jean-Marc – 9AP.4
DeForest Hauser, Cindy – 11HA.6
Degois, Jodelle – 13BA.6
Deguillaume, Laurent – 11BA.2
Deguine, Alexandre – 11AP.7
Del Hoyo, Mirko – 11LC.8
Delaby, Stephane – 4IA.11
Deladurantaye, Pascal – 9LC.3
Delavary, Delya – 14BA.2
Delort, Anne Marie – 7CC.8, 10BA.10, 11BA.2
Delval, Christophe – 11IM.8
Deming, Benjamin – 9AC.3, 11IM.3
DeMott, Paul – 1IN.4, 2IN.2
Deng, Chenjuan – 7MG.24
Deng, Jianguo – 13CB.2
Deng, Kui – 7TT.2
Deng, Wenye – 7TT.2, 13MG.2
Denk, Oliver – 3MD.3
Deokar, Archana – 13TO.5
Depee, Alexis – 9AP.1
Deppert, Knut – 5MS.3
DeRieux, Wing-Sy – 5AC.5, 9CA.5
Deschutter, Lise – 4IN.19
Deshmukh, Dhananjay Kumar – 14AC.3
Devara, P.C.S. – 2RA.7
DeWitt, H. Langley – 12LC.6
Dey, Kaushik – 3RA.1
Dey, Sagnik – 5CD.7, 7ES.4, 10HA.18
Deye, G.J. – 10HA.2, 10HA.5
Dhaniyala, Suresh – 2IM.6, 4IM.26, 7IB.17, 7IM.20, 7LC.23, 10BA.24, 10LC.7, 10LC.10, 13AP.6, 14LC.1

Dhanraj, David I. A. – 6AM.7, 7AM.2
Dhawan, Sukrant – 7AM.2, 7MS.10
Dhiman, Abhishek – 1AM.2, 7AM.16
Dhital, Narayan Babu – 3RA.2, 4CA.19, 8ES.6
Dhulipala, Surya Venkatesh – 2AC.1
di Bucchianico, Sebastiano – 6CD.7
Di Cesare, Andrea – 12BA.8
Di Marco, Chiara – 8MG.9, 10RA.9
Diao, Yifan – 6MS.9
Diapouli, Evangelia – 4AE.9, 5RA.2, 6AE.8, 10LC.14, 10SA.16, 14CA.2
Diaz, Raul Venancio – 4AC.21
Diaz, Sandra – 4MD.5
Dibaji, Seyed Ahmad Reza – 10HA.10
Dibb, Jack – 4CA.26, 5AC.1, 7MG.8
Dickie, Ian – 4AM.17
Dietel, Barbara – 4IN.2
Dietrich, Maria – 10TO.3
DiGangi, Josh – 7MG.8
Dilger, Marco – 6CD.7
Dillner, Ann – 4CA.27, 5IM.8, 7AC.41, 7IM.21, 13CA.6
Dillon, Kevin – 7BA.15, 7CC.8
Dimaratos, Athanasios – 8CB.7
Dimitrelos, Antonios – 6CC.4
Ding, Xiang – 2CM.2, 4CA.11, 7AC.6, 10TO.5
Ding, Yaobo – 6CD.6, 7CD.20
Dingilian, Kayane – 9AP.6
Dingle, Justin – 10CA.11
Dinkele, R. – 8IB.7
Diouri, Mohammed – 4RA.18, 4RA.27, 4RA.29, 7CC.7, 10RA.5
Dirscherl, Kai – 10IM.6
Diskin, Glenn – 7MG.8
Ditas, Florian – 2AP.1, 4AP.21, 9AC.1, 11BA.8, 12AP.2, 12BA.4, 12RA.8
Ditas, Jeannine – 12AP.2
Dittmar, Gunnar – 6CD.7
Ditto, Jenna – 4AC.9, 4CA.20, 12AC.6
Dóbbé, Sandor – 10HA.13
Doerksen, Geoff – 4CA.29
Dogra, Vipul – 14LC.4
Doh, Kyung-Oh – 7MS.2
Dolez, Patricia – 1CM.5
Dollner, Maximilian – 8ES.2
Dominick, D. – 7AE.3
Dommen, Josef – 2AC.5, 4AC.20, 7AC.40, 8AC.4, 10AC.6, 10AC.10, 11HA.1, 14HA.5, 14HA.6
Donahue, Neil – 2AC.4, 5IM.4, 7AP.24, 10AC.13, 10AC.15, 13AC.6, 13AC.8
Donaldson, Scott – 1MD.2
Dong, Can – 1AM.3
Dong, Jingliang – 1MD.8
Dong, Ming – 13AP.4
Dooley, Keven – 4IN.1
Doraiswamy, Prakash – 7IB.22
Dorf, Marcel – 12BA.4
Dorsey, James – 11CA.2
Dou, Jing – 7AC.16
Doughty, David – 11BA.6, 12IM.2
Doussin, Jean-François – 4AC.36
Dove, Lily – 4IN.1
Downey, Allen – 13MG.5
Downey, Peter – 3CM.3
Draper, Danielle C. – 4OF.3
Drewnick, Frank – 5RA.8
Drewry, David – 7BA.26, 7IB.8
Dreyer, Jochen A.H. – 11CB.5
Driks, Adam – 11BA.6
Drossaart van Dusseldorp, Saskia – 4IN.22
Drossinos, Yannis – 4AP.11, 7IM.22, 12AP.7
Drozd, Greg – 7CB.17
Du, Lin – 6AC.8
Du, Pengrui – 12BA.2
Du, Rui – 4IM.16, 12BA.2
Du, Wei – 5AC.6, 7AC.14, 7MG.20, 9MG.4
Du, Weixin – 7TT.2
Du, Xubing – 6IM.8
Du, Yongle – 2CM.5
Du, Zhuofei – 7MG.22
Duan, Dawei – 5CM.4, 5CM.5
Duan, Fengkui – 7MG.11, 10MG.5
Duan, Lei – 7MG.26, 9WA.4
Duan, Lunbo – 4MD.10, 10AP.6, 14DU.5
Duan, Ning – 9WA.4
Duan, Yuanqiang – 14DU.5
Duarte de Marins Costa, Arthur – 12AC.7
Dubey, Manvendra – 1RA.2, 5CA.8, 13CA.7
Dubose, Devon – 3MD.4
Duca, Dumitru – 4CA.28, 8CB.8, 9AP.8
Duchaine, Caroline – 7BA.8, 7BA.20, 7IB.11, 10BA.11, 10HA.16, 13BA.4
Duelge, Kaleb – 4MD.7
Dumka, Umesh C. – 7MG.15, 10MG.6
Dunbabin, Matthew – 10LC.1, 10LC.3
Dunker, Alan – 10SA.10
Dunmore, Rachel – 9MG.8
Duplessis, Patrick – 6CC.8
Duplissy, Ella-Maria – 7AP.29
Duquette, Philippe – 13BA.6
Duquette-Lozeau, Karine – 10BA.11
Durbin, Thomas D. – 8CB.1, 10CB.1
Dutcher, Cari – 5AP.8
Dutcher, Dabrina – 2AP.8, 2IA.8
Dutta, Suryendu – 14DU.4
Duvoisin Junior, Sérgio – 1AC.1, 12RA.6
Dyer, David – 7IB.25, 14BA.5
Düsing, Sebastian – 4AP.22
Dzepina, Katja – 1RA.5
Dziurla, Cécile – 13BA.6
Dziurowitz, Nico – 7CD.6, 10WA.3
D’Espiney, Ana – 3IA.5
D’isidoro, Massimo – 4AM.23
Đorđević, Dragana – 4AM.6
Đuričić-Milanković, Jelena – 4AM.6
e Oliveira, Santos – 1AC.1
Eagar, Jershon – 8ES.3
Easter, Richard – 7CD.21, 7TT.9, 8AM.2
Ebert, Volker – 4CA.16
Echt, Alan – 4CM.2
Ed, Carnell – 4AM.17
Edgerton, Eric – 1AC.1, 7AC.41, 10RA.7, 13CA.4
Edwards, Rufus – 4AC.27
Edwards, Sam – 7LC.24, 11LC.3
Efstathiou, Christos – 4CA.31
Egle, Roman – 3MD.3
Ehara, Yoshiyasu – 10CB.23, 10CB.24
Ehlert, Sven – 6CD.7, 6IM.1
Ehn, Mikael – 2AC.2, 2AC.6, 2AC.7, 4AC.22, 4AC.37, 6IM.2, 10AC.7, 10AC.8, 10SA.12, 11MG.7, 13AC.8
Eichler, Philipp – 8AC.5
Eiguren Fernandez, Arantzazu – 5CD.5, 7BA.19, 7BA.21, 10TO.10

Eilenberg, Rose – 8LC.1, **12CB.6**, 12LC.4
Eirund, Gesa – 6CC.4
Ekambaram, Vinay – 3IN.5
Ekman, Annica – 6CC.4
El Fahim, Nihal – 14AP.4
El Gabaly, Farid – 11CB.6
El Haddad, Imad – 4AC.20, **4IA.1**, 7AC.7, 8AC.4, 9CA.6, 10AC.6, 11HA.1, 13CB.5, 13SA.1, 13SA.3, 14HA.5, 14HA.6
El Hajj, Danielle – **11AP.3**
El Khabbouti, Azhare – 4RA.29
El-Sayed, Marwa – **11AC.5**
El-Shall, Mohamed – 4AP.7
Elcner, Jakub – 10HA.4, 11HA.2
Eleftheriadis, Konstantinos – 4AE.9, 4CA.16, 5RA.2, 6AE.8, **8ES.9**, **10LC.14**, 10SA.16, 10SA.23, **14CA.2**
Ellingsen, Dag Gunnar – 9WA.1
Ellis, Aja – 8LC.1, 11LC.8, 12LC.4
Elmashae, Yousef – 9WA.5
Elperin, Tov – 2RA.8
Elser, Miriam – 10SA.31, 10TO.3
Eltai, Nahla – 12BA.1
Eluri, Sailaja – 10F.3
Elzey, Sherrie – 3ED.2, 4IM.23
Emeis, Stefan – 7LC.8
Emelyanova, Elena – 7IB.13
Emerson, Ethan – 4CA.21
Emmons, Louisa – 1AC.8, 4AC.7
Emygdio, Ana Paula Mendes – **10BA.13**
Enami, Shinichi – 7AC.10
Engelbrecht, Johann – 12SA.8
Engelke, Simon – 5MS.7
Enghoff, Martin Bødker – **2AP.5**
Enroth, Joonas – 2IM.2, 10AC.8, **10IM.15**, 13AC.8
Epstein, Scott A. – **13MG.3**
Erdesz, Frank – 2RA.3
Erel, Yigal – 4IN.4
Erickson, Matthew H. – 4AC.16, 8AC.9
Eriksson, Axel C. – 1IA.2, **2IA.6**, 4IA.13, 10CB.7, 12CB.8
Eris, Gamze – 1AC.6, 4AC.26, 4CA.20, 5AP.5, 7IM.23, 8AC.2, **11IM.6**, 12AC.6
Ernst, Darrell – 7ES.16
Ervik, Torunn – **9WA.1**
Escobedo, Jacob – 11IM.1
Esenther, Sarah – 8AE.6
Eshbaugh, Jonathan – 10BA.1
Esmaeili Neyestani, Soroush – **7AM.6**
Esmaeilrad, Sepideh – 7AC.7
Espinosa Guzmán, Alberto Antonio – **4AP.29**
Ess, Michaela N. – 10CA.2, **10CB.19**
Esterlova, Jana – 7TT.10
Eun, Hee-Ram – 10RA.13
Evans, Barbara – 13BA.5
Evans, Greg J. – 7CD.14, 8AE.1, 10SA.4, 4CA.29, 12MG.3, 14SA.3
Eversole, Jay D. – **9BA.2**, 10AP.4, 10BA.17
Evtugina, Margarita – 4CA.9
Ezio, Bolzacchini – 7CC.10
Facchini, M. Cristina – 4AC.39, 14RA.3, 14RA.4
Faccinotto, Alessandro – 4CA.28, 9AP.8, 11CB.3
Fagerli, Hilde – 4AM.23
Fahimi, Dorsa – 10IM.16
Fahy, William – 2IN.6
Faiola, Celia – **10F.7**, 4AC.13, 4AC.29, 4OF.2, 4OF.8, 7AC.19
FAIRMODE WG3 Community – 12SA.2
Falahati, Farjad – 7CB.12
Falk, John – 12CB.8
Falkenstein, Thomas A. – 4MD.1
Fallone, Cait – 4ED.7
Faloona, Ian – 7AM.16
Fan, Hugh – 7BA.19, 7BA.21
Fan, Xinxin – 4AP.6
Fang, Cuilian – 7CD.14, 8AE.1
Fang, Jiaxi – 4MS.20, 5CM.8, 9LC.6
Fang, Ting – **7CD.13**
Fang, Zhu – **7AM.11**
Faramarzi, Afshin – 6AE.4
Faria, Julia Perim – 3RA.6
Faria, Tiago – 3IA.5, 4AE.9, 4AE.15, 6AE.8
Farmer, Delphine – 10F.3, 4CA.21, 10CB.10
Farrell, Sarah – 7AC.11
Fast, Jerome – 1AM.1, 7CD.21, 7TT.9, 11AC.8
Fatmi, Zafar – 14HA.4
Favez, Olivier – 4AM.4, 4CA.8, 7CB.5, 10SA.1, 10SA.5, 13SA.7, 14CA.1
Fazli, Torkan – **3IA.6**, 6AE.4
Febrigia, Ghana Rinaldi – 2MS.4
Federici, Ermanno – 12BA.5
Feenstra, Brandon – **8LC.2**, **12LC.8**
Feil, Stefan – 6IM.6
Feinberg, Stephen – **7LC.1**
Feltin, Nicolas – 4IA.11
Felton, H. Dirk – 4RA.7, 7CD.17, 13IM.1, 14CA.4
Feng, Jia – 2CM.3
Feng, Jicheng – 5MS.1
Feng, Kun – 4AC.6
Feng, Yu – **4AM.2**, 4MD.2, 6AM.5
Fennell, Donna – 7BA.15, 7CC.8
Fenselau, Catherine – 8IB.7
Fergenson, David – **3MD.1**, **7BA.6**
Ferguson, Robert – 7BA.7
Fermo, Paola – **7IA.10**, 10SA.31
Fernandes, Amaia – 3IA.5
Fernández-Amado, María – 4CA.9
Ferreiro Fernandez, Sebastian – 10CB.15
Ferro, Andrea R. – 7LC.18, **11LC.1**, 13AP.6
Ferron, George A. – 5CD.4
Fetfatzis, Prodromos – 10LC.14, 14CA.2
Fialho, Paulo – 1RA.4, 1RA.5, 2RA.2
Fiebig, Markus – 10IM.6
Fiegel, Jennifer – 14HA.2
Field, Paul – 6CC.4, 7CC.5
Fierce, Laura – **1AM.7**
Figgis, Benjamin – 3CM.2, 5CM.6
Figueredo, Camila – 7AE.5
Figueroa, Bernardo – 1IN.7
Finewax, Zachary – **4AC.45**
Finger, Hartmut – 3IA.1
Finkenzeller, Henning – 7AP.24
Finlay, Warren H. – **1MD.3**, 4MD.6
Finster, Kai – 1IN.5
Fischer, Al – 5CA.7, **7IM.13**, 8IM.2
Fischer, Lukas – 2AP.3, 4AC.20, 9AM.8, 10AC.6, 10AC.9, 10AC.10, 13AC.4
Fisenko, Sergey – 4AP.7, **4MS.3**
Fisher, Justin – 7CC.9
Fitzpatrick, Mitch – 11LC.5

Flagan, Richard – 2CA.3, 2IM.1, 3ED.4, 4ED.5, 4IM.10, 5AP.4, 7AP.24, 7IM.15, 10BA.6, 11IM.2
Fleischer, Daniel – 3CM.5
Fleming, Lauren – 4AC.27, 5AC.5, 9CA.5
Fletcher, Louise – 13BA.5
Flocke, Frank – 11MG.1
Flores, Michel – 4OF.6
Florou, Kalliopi – 2RA.4, 13CA.5
Flossmann, Andrea – 9AP.1
Flowers, Bradley – 12LC.6
Flynn, Connor – 1RA.2, 1RA.7
Flynn, James – 4AC.16, 8AC.9, 10SA.20
Flynn, Michael – 4IN.9, 7AP.30, 10BA.7, 10MG.12, 11CA.2
Focsa, Cristian – 4AC.34, 4CA.28, 8CB.8, 9AP.8, 11CB.3
Fogal, Pierre – 10RA.10
Fok, Shierly – 7CD.18
Fomin, Alexey – 2MS.2
Fominykh, Andrew – 2RA.8
Foos, Rebecca – 10WA.4, 14LC.3
Foot, Virginia – 10BA.7
Foote, Shannon – 10MG.10
Ford, Bonne – 8LC.3, 11LC.2
Forello, Alice – 10SA.31
Formenti, Paola – 6CC.7
Forster, Mark – 11HA.7
Fort, Mike – 1AC.1
Fortenberry, Claire – 1IA.3, 7AC.36, 10HA.20
Fortner, Edward – 4CA.2, 7CB.18, 7IM.14, 8AE.8, 13CA.2
Fortner, John – 7AP.23
Fossum, Kirsten – 6CC.5
Foster, Adam S. – 1AM.4
Foster, Katie – 9CA.7
Fournel, Sébastien – 10BA.11
Fox, Cathryn – 4RA.4, 11CA.2
Fölker, Nikolaus – 14RA.2
Förster, Jan-David – 9AC.1
Fraile, Roberto – 4IA.3, 7IA.4, 10SA.6
Francesca, Barnaba – 7CC.10
Franchin, Alessandro – 13CA.1
Franck, Ulrich – 1IA.6
Franco, Marco Aurélio – 7AP.21
Frank, Brian P. – 4RA.7, 7CB.8, 7CD.17, 10DU.6
Frank, Fiorenza – 1MD.7
Franzetti, Andrea – 12BA.5
Fraser, Matthew – 8ES.3
Frazee, Richard W. – 4IM.14
Freedman, Andrew – 3RA.6, 5CA.7, 9IM.6, 13CA.2
Freihaut, James – 10LC.4
Freitag, Steffen – 7TT.11
Freitas, Saulo – 9AM.4
Frick, Ondraya – 7IB.25, 14BA.5
Fridlind, Ann – 1IN.3
Frie, Alexander – 10CA.11, 12SA.7
Friebel, Franz – 4OF.11, 5CA.3
Fried, Alan – 7MG.8, 11MG.1
Friedman, Beth – 1OF.3
Fritz, Patricia – 7CB.8, 7CD.17, 10DU.6
Frossard, Amanda – 14AC.6
Frostad, Joseph – 12MG.2
Froyd, Karl D. – 1AM.5, 2IN.4, 2RA.3, 8ES.2, 11CA.1, 13BA.8
Fry, Juliane L. – 4OF.3
Fröhlich-Nowoisky, Janine – 4IN.6
Fu, Pingqing – 5AC.6, 7AC.14, 7AP.30, 7MG.20, 8MG.9, 9MG.4, 9MG.8, 10MG.12, 10RA.8, 11CA.8, 13MG.4
Fu, QingYan – 11MG.7
Fu, Yueyun – 2IM.4, 7MG.13, 7MG.24, 13AC.2
Fuchs, Bernhard M. – 11BA.8
Fuchs, Hendrik – 4AC.15
Fuentes, Andrés – 12AP.6
Fujioka, Kentaro – 4AP.2, 7IM.4
Fujitani, Yuji – 4CA.6, 8AM.4
Fukagata, Koji – 4AP.2, 7IM.4
Fukumori, Kanta – 10WA.1
Fuller, Gary W. – 10SA.30
Funato, Koji – 4AP.1
Fung, Ryan – 14BA.2
Furger, Markus – 8MG.4
Furutani, Hiroshi – 7MG.11
Fushimi, Akihiro – 4CA.6
Fyrrillas, Marios – 4AM.21
Gac, Jakub – 1CM.2
Gaddam, Chethan – 4DU.4
Gadde, Harish – 10HA.3
Gader, Paul – 4ED.4, 4ED.8
Gadhavi, Harish – 4RA.23
Gagne, Stephanie – 13CB.4
Gaie-Levrel, François – 4CA.16, 4IA.11
Gaillardon, Pierre-Emanuel – 10LC.8
Gaimoz, Cécile – 4AC.36
Gajjar, Hardik – 7LC.7
Galang, Abril – 4CA.2
Galindo, Nuria – 10RA.1
Galinha, Catarina – 4AE.15
Gallagher, Martin – 10BA.7
Gallimore, Peter J. – 4AC.12, 11AC.2
Gallo, Francesca – 1RA.7
Galloway, Melissa – 4AC.38
Galvis, Boris – 7AE.5, 7LC.20, 8AE.2
Gamarra, Ana – 3IA.5
Gambaro, Andrea – 4AM.6
Gañán-Calvo, Alfonso – 9AP.3
Gandolfi, Isabella – 12BA.5
Ganguly, Dilip – 7CB.4, 9MG.5, 10SA.25, 11AC.3
Gani, Shahzad – 6AE.7, 8MG.6, 11MG.8, 12LC.1
Gao, Dong – 4CA.20, 7CD.18, 7IM.23
Gao, Jian – 10MG.9
Gao, Lan – 8ES.7
Gao, Meng – 5AC.8
Gao, Ru-Shan – 1AM.5, 2RA.1
Gao, Shaokai – 4AC.3, 13SA.6
Gao, Wei – 6IM.8
Gao, Wenkang – 7MG.17, 14AC.4
Gao, Xiang – 2CM.1, 5CM.4, 5CM.5, 7AM.10
Garcia, Agustin – 1IN.7
Garcia, Pablo – 4AM.11, 4AM.27
Garcia-López, Natxo – 12CB.8
Garcia-Soriano, Gabriel – 7MS.5
Garcia-Ybarra, Pedro L – 2MS.7, 7MS.5
Gardner, Richard – 7AC.31
Gardner-Frolick, Rivkah – 4AE.7, 10SA.20
Garg, Divyam – 4IA.17
Garibaldi, Brian – 7IB.8
Garmash, Olga – 2AC.6, 4AC.20, 4AC.37, 6IM.2, 7AP.29, 10AC.7, 11MG.7
Garrison, Alexis – 12SA.7
Garver, Daniel – 7LC.1

Gaspar, Fraser – 7LC.11
Gasparik, Jessica – 7AM.15
Gasser, Stéphane – 9AP.4
Gaston, Cassandra – 8AM.2, 9AC.5
Gatta, Elena – 12BA.8
Gautam, Milan – 5MS.6
Gautum, Sneha – 4CM.9
Gawande, Neha – 4AP.13, 9AP.2
Ge, Xinlei – 7AC.14, 7AP.30, 9MG.4, 10MG.14, 12SA.6
Gebhart, Kristi – 7AC.39
Gedanken, Aharon – 13TO.5
Géhin, Evelyne – 4RA.20, 7LC.3
Gehrmann, Hans-Joachim – 10CB.14
Geiser, Marianne – 11HA.1, 14HA.6
Gen, Masao – 3AC.2
Genermont, Sophie – 4AC.34
Geng, Fuhai – 11MG.7
Gensch, Iulia – 8AC.5
Gentner, Drew – 4AC.9, 4CA.20, 7LC.22, 12AC.6
Gerasopoulos, Evangelos – 4CA.30
Gessner, S. – 8IB.7
Gettelman, Andrew – 2IN.2
Ghandehari, Hamid – 13TO.1
Ghatala, Fred J. – 7CB.14
Ghildiyal, Pankaj – 6MS.3
Ghosh, Kunal – 4AM.3, 7AM.9
Ghosh, Sanhita – 4CA.36
Ghosh, Souvik – 14AP.3
Ghosh, Sudipta – 5CD.7, 11AC.3
Ghude, Sachin – 10MG.3
Gian Paolo, Gobbi – 7CC.10
Giannoni, Martina – 4AC.21
Giardi, Fabio – 2RA.6
Giechaskiel, Barouch – 7IM.22
Giger-Pabst, Urs – 4MD.1
Giglioni, Carlo – 7IA.10
Gilardoni, Stefania – 4AC.39, 7IA.10, 9CA.6, 12AP.8, 13AC.8
Gill, Thomas – 12RA.5
Gille, Grégory – 5RA.5
Gilles, Mary – 1IN.8, 1RA.8, 4IN.14, 12AC.3
Gillette, Nicole – 14BA.2
Gilman, Jessica – 11MG.1, 13CA.1
Gini, Maria – 10SA.23, 14CA.2
Giordano, Michael – 2RA.5, 3RA.2, 4CA.19, 8ES.6
Giorio, Chiara – 4AC.12, 6CC.7
Girard, Matthieu – 7BA.20, 13BA.4
Giraudel, Jean-Luc – 1CM.5
Giroto, Giulia – 5CA.8
Givehchi, Raheleh – 3IA.3
Gkatzelis, Georgios – 8AC.5
Glicker, Hayley – 10RA.11
Gockeln, Michael – 2MS.5, 2MS.6
Godbout, Stéphane – 10BA.11, 13BA.4
Godfrey, Kate – 11IM.1
Godri Pollitt, Krystal – 8AE.6
Goel, Anubha – 4IA.17, 10TO.6
Goel, Vikas – 4AM.25
Goetz, J. Doug – 2RA.5, 3RA.2
Goffin, Pascal – 10LC.8
Gogoi, Mukunda M – 7ES.6
Gold, Avram – 1AC.1, 1AC.4, 3IN.6, 7AP.40, 9AC.5
Goldberger, Lexie – 7AC.24, 9LC.2
Golden, Nadia – 7IB.24
Goldstein, Allen H. – 1IA.7, 7CB.17, 10IM.13, 11CA.6, 12SA.1
Golly, Benjamin – 10SA.1
Gomes, Eliane – 1AC.1
Gomez, Alessandro – 11CB.8
Gomez, Samantha – 13CA.7
Goncalves, Fabio Luiz Teixeira – 10BA.13
Gonçalves, Karla – 3IA.5
Gong, Jie – 10BA.2
Gong, Wanmin – 9AM.3
Gong, Wen-Cheng – 4IM.20
Gong, Zhaoheng – 9AC.4
Gong, Zhiyong – 7BA.4, 11AP.8
Goni de Cerio, Felipe – 10HA.11
Gonzalez, David – 11AC.2
Gonzalez, Eduardo – 6CD.9
Gonzalez, Stephania – 7LC.9
Good, Nicholas – 3ED.2
Gopalakrishnan, Ranganathan – 4IM.5, 6AM.1, 14AP.5
Gopan, Akshay – 4DU.7, 10CB.12, 10DU.1
Gordon, Hamish – 5AM.6, 6CC.4, 7CC.5, 9AM.8
Gordon, Tim – 4AM.24, 7IM.27
Goriaux, Mathieu – 10CB.9
Gorjinezhad, Soudabeh – 10LC.20, 10MG.21
Gorkowski, Kyle – 5CA.8, 5IM.2, 5IM.4, 8AM.9
Gosselin, Sylvie – 4AC.34
Goudeli, Eirini – 1DU.4, 4AP.26, 7AP.22, 11CB.2, 12AP.3
Goyal, Sanjeev – 7MG.21
Göhler, Daniel – 4MD.1
Grace, Daisy – 4AC.38
Graham, Steven – 7BA.3
Gramlich, Yvette – 9AC.7
Gramyk, Tobin – 3AC.1
Grantz, Amanda – 2IM.1
Gratien, Aline – 4AC.36
Gratza, Thomas – 7LC.8
Graves, Brian – 3MS.6, 5MS.7, 10AP.8
Graw, Rick – 9AM.4
Grawe, Sarah – 1IN.5, 2IN.7, 4IN.6
Gray, Alyson – 11LC.5
Gray, Gregory – 7IB.15
Gray, Kathleen – 4ED.7
Gray, Sally – 6TT.7
Green, David – 10SA.30, 14CA.1
Green, Hilary – 1AC.1
Green, Mark – 9CA.3
Green, Peter – 12CB.2
Grell, Georg – 9AM.4
Gren, Louise – 7CD.11, 10CB.7
Grieshop, Andrew – 3OF.6, 4IA.7, 4IA.15, 4OF.10, 12CB.5, 12CB.7, 13CA.6
Griffin, Robert – 4AC.16, 8AC.9, 10IM.8, 10SA.20, 12AC.6
Griffith, Stephen – 10SA.7
Grifoll, Jordi – 5MS.2, 7MS.1
Grimm, Hans – 7LC.8
Grinshpun, Sergey A. – 2IA.4, 7IB.3, 9WA.5, 11BA.4, 11LC.6
Grivas, Georgios – 4CA.30
Gronstal, Steven – 9CA.3
Gros, Valerie – 4CA.8, 10SA.1, 10SA.5, 13SA.7, 14CA.1
Gross, Armin – 10IM.6
Gross, Deborah – 3ED.3

Große, Stephan – 4MD.1, 10IM.10
Gruber, Friedrich – 3MD.3
Gryazin, Victor – 7AM.18
Grydaki, Nikoletta – 10BA.23
Grzeszik, Roman – 8CB.8
Größ, Johannes – 7AC.27
Gu, Dasa – 10F.7, 12RA.6
Gu, Peishi – 6AE.6, 7AE.4, 9MG.6
Gu, Tianyi – 7CM.4
Guan, Xinbei – 5AM.1
Guardani, Maria Lucia G. – 4RA.28
Guardani, Roberto – 4RA.28
Gubbins, Emma – 7AC.4
Gubbins, Simon – 6IB.5
Gudmundsson, Anders – 11HA.8
Guenther, Alex – 10F.7, 12RA.6
Guerrieri, Dave – 7CB.8
Guerrieri, David – 10DU.6
Guha, Suvajyoti – 10HA.10, 14BA.2
Guimarães, Patrícia C. – 12RA.6
Gulotta, Davide – 7IA.10
Gunsch, Daniel – 6IM.6
Gunthe, Sachin S. – 10BA.25
Gunturi, Santosh Srivatsa – 2MS.3
Guo, Bing – 3CM.2, 4ED.4, 5CM.6, 7CM.2, 14CA.6
Guo, Ciao-Jhen – 10CB.5
Guo, Fangzhou – 4AC.16
Guo, Hai – 12SA.1
Guo, Hao – 4AE.6, 4RA.5, 7AE.2, 13MG.2
Guo, Hongyu – 7AC.23, 13SA.8
Guo, Song – 7MG.22, 12RA.4, 13MG.1
Guo, Yi – 8CB.3
Guo, Yishan – 2CM.1
Gupta, Beena – 4AM.25
Gupta, Lovleen – 10MG.1
Gupta, Pratima – 5CA.2
Gupta, Tarun – 4AC.8, 4AC.41, 4CA.7, 13SA.2
Gurung, Anobha – 4CA.19
Gustafsson, Mats – 4IM.15
Gustafsson, Orjan – 7TT.3
Gut, Ian – 7IB.7
Gysel, Martin – 4AP.22, 4CA.16, 6CC.9, 12AP.8, 13CB.5
Haapanen, Janne – 7MS.12
Haapasilta, Ville – 1AM.4
Habel, Bruce – 7LC.2
Habib, Gazala – 7CB.4, 7ES.12, 7MG.16, 8MG.6, 10HA.18, 10MG.1, 10SA.19, 11MG.8, 12CB.4, 12LC.1, 13TO.3
Hacker, Lina – 4OF.3
Hackley, Vince – 4MD.7
Haddad, Imad El – 10AC.10, 10SA.25
Haddad, Kelsey – 4MS.6, 7AP.23
Haddrell, Allen E. – 3MD.2, 7AC.17, 8IB.8
Haefele, Alexander – 11AP.6
Hagan, David – 4CA.2, 8AC.2, 8LC.8, 12LC.1
Hagen-Zanker, Alex – 8AE.4
Haghnegahdar, Ahmadsreza – 4MD.2
Hagler, Gayle – 7LC.1, 7LC.5
Haine, Dana – 4ED.7
Haines, Sarah – 3IA.4
Hair, Johnathan – 7CC.13
Haisch, Christoph – 2IM.8, 11CB.7
Hajizadehmotlagh, Mandana – 10IM.16
Hallar, Anna Gannet – 7CC.14
Hallberg, Robert T – 10IM.1
Hallé, Stéphane – 1CM.5
Hallett, Laura – 11LC.5
Hallquist, Mattias – 7ES.12
Hamburg, Steven – 6AE.7
Hamilton, Jacqueline F. – 9AC.6, 9MG.8
Han, Bangwoo – 4IA.6, 7CM.6, 7CM.8, 7CM.10, 7IM.35
Han, Fenglin – 4AM.5, 10HA.7
Han, Hee-Siew – 10IM.12
Han, Jang-Seop – 7IM.5
Han, Sanhee – 4AM.18
Han, Taewon – 7BA.2, 7BA.11, 10BA.20
Han, Taewon T. – 4AE.4
Han, Tingting – 9MG.4
Han, Yongming – 4CA.10, 7CB.7
Han, Yuemei – 4AP.17, 9AC.4
Han, Yunping – 7BA.1
Hand, Jenny – 7AC.39, 12RA.1, 12RA.5
Handler, Frank – 10BA.17, 11BA.6
Hanisco, Tom – 11MG.1
Hannigan, Michael – 4AC.35, 7AC.20, 7CB.9, 10LC.19
Hansel, Armin – 6IM.6, 13AC.8
Hansel, Nadia – 6AE.9
Hansen, Anthony D.A – 5CA.1, 14CA.1
Hansen, Kaj – 14HA.2
Hao, Caixia – 2MS.8
Hao, Jiming – 7MG.10, 10AC.11, 12CB.3
Hao, Liqing – 4AC.13, 5AP.3
Hao, Wei Min – 10CA.5
Hapeman, Cathleen – 3CM.3
Happo, Mikko – 6CD.7
Hara, Keiichiro – 13TO.2
Harder, Hartwig – 12BA.4
Harley, Robert – 13MG.6
Harpeng, Jens – 12CB.1
Harra, Juha – 4IM.19, 13IM.7
Harrison, Roy M. – 10SA.29, 10SA.30, 12MG.3
Hart, Matthew B. – 10AP.4, 10BA.17
Hartery, Sean – 6CC.8
Hartikainen, Anni – 3OF.5
Hartman, Amy – 6IB.9
Hartmann, Susan – 1IN.5, 4IN.6
Hasegawa, Shuichi – 4CA.6, 13TO.2
Hasenecz, Elias – 7AC.8
Hashad, Khaled – 3CM.5
Hasheminassab, Sina – 7MG.18, 8MG.3, 10SA.18
Hashino, Tempei – 1IN.2
Hassanvand, Mohammad Sadegh – 14SA.5
Hatch, Lindsay – 7AM.20, 10CB.26, 11CA.6
Hathi, Deep – 4MS.12
Hatzopoulou, Marianne – 7CD.14
Hauryliuk, Aliaksei – 8LC.1, 12LC.4
Havlicek, Maynard – 4IM.23
Havránek, Vladimír – 14SA.6
Hawkins, Lelia – 3AC.6
Haworth, Daniel – 10CB.15
Hayakawa, Kazuichi – 7TT.4
Hayashi, Masahiko – 13TO.2, 14RA.6
Hayden, Katherine – 9AM.3
Hayes, Patrick – 9MG.1, 10RA.10
Haynes, John – 7AC.9
Hays, Michael – 10RA.7
Haywood, Jim – 4RA.4, 11CA.2
Håland, Alexander – 11HA.1

He, Hong – 1AM.6
He, Jing – 7TT.2
He, Kebin – 1AM.6, 7MG.11, 10MG.5
He, Meilu – 7IM.20, 10LC.7, **10LC.10**
He, Quanfu – **3OF.3**, **4OF.6**, 7CD.16
He, Ruikang – **2IA.5**, **7LC.9**
He, Shizhen – 10WA.7
He, Siqin – **4IM.17**, **9IM.3**
He, Xiang – 4MS.1
He, Xucheng – 2AC.6, 6IM.5, **7AP.24**,
7MG.13, 7MG.24, 10AC.9, 13AC.2
Heal, Mathew – 10RA.9
Heald, Colette – 12AC.1, 13BA.8
Healy, Robert – 10SA.4, 4CA.29
Hébert, Didier – 4RA.1, 4RA.20, 5RA.1
HEI GBD-MAPS Working Group –
12MG.2
Heikkilä, Joni – 5RA.4
Heikkinen, Liine – 2AC.2, 2AC.5, **2AC.7**,
4AC.22, 4AC.37, 6IM.2, 7MG.13, 10AC.8,
10AC.13, **10SA.12**, 13AC.2, 13AC.8
Heine, Nadja – 1IA.7
Heinritzi, Martin – 2AP.3, 4AC.20, 7IM.24,
9AM.8, 10AC.9, 13AC.1, **13AC.4**
Heinson, William – **5CA.5**, 7AP.34,
7AP.37, 10AP.5, 10AP.9, **10CA.13**, 11AP.5,
12AP.1, 12AP.5, 14AP.1
Heinson, Yuli W. – **7AP.37**, 7LC.4,
10CA.12, 10CA.15
Heitto, Arto – 10AC.13
Hejkrlik, Libor – **4RA.11**
Held, Andreas – 14SA.1
Helgestad, Taylor – 5CA.7
Hellack, Bryan – 8LC.6
Hellmann, Albert – 13AP.3
**Hemant, Lakshmpura
Ramachandraiah** – **4MS.8**
Hems, Rachel – 11CA.7
Henneman, Lucas – 5AM.1
Hennigan, Christopher – 4CA.2,
5AC.2, 11AC.5
Henning, Silvia – 1RA.4, 7TT.13
Henshaw, Geoff – **7LC.21**
Hensley, John – 6AC.4
Heo, Jongbae – **4AP.25**
Heo, Ki Joon – 7BA.12, 7BA.14
Herb, Jason – **4AC.25**, 5AM.4, 10AC.14
Herbin, Hervé – 11AP.7
Herckes, Pierre – **6CC.7**, **8ES.3**
Hering, Susanne – **Plenary I**, 4IM.10,
4IM.29, 7BA.19, 7BA.21, 7IM.3, **9IM.8**,
10IM.13, 12SA.1
Hernandez, Diana – 4ED.7
Hernandez, Mark T. – 7BA.16, 11BA.4
Herndon, Scott – 4CA.2, 7CB.18, 8AE.8
Herod, Dennis – 14SA.3
Herr-Calomeni, Phyllis – 7IB.5
Herring, Steven – 11BA.3
Herrmann, Hartmut – 7AC.27,
13SA.5, 14SA.1
Hersey, Scott – 13MG.5
Hervo, Maxime – 11AP.6
Herzog, Artemas – 8IB.3
Hesse, David – 5RA.3
Hethcox, Caleb – 2AC.8
Heunisch, Elisabeth – **7CD.6**
Hevey, Michael – 7IB.10
Hietikko, Riina – 13SA.4
HICE – 6CD.7
Higashi, Hidenori – 4AP.4, 10WA.1
Highwood, Ellie – 4RA.4
Higuera, Francisco J – 2MS.7
Hikita, Toshihide – 7IM.31
Hildebrandt Ruiz, Lea – **2AC.1**, 4AC.43,
8MG.6, 11MG.8, 12LC.1
Hilker, Nathan – 10SA.4, 4CA.29, 14SA.3
Hill, Adrian – 6CC.4
Hill, Steven – **11BA.6**, 12IM.2
Hill, Thomas – 1IN.4, 2IN.2, 4IN.6
Hillamo, Risto – 4RA.24, 9WA.6
Hillemann, Lars – 4AE.16, **4MD.1**,
10HA.11
Hindle, Michael – 1MD.5
Hineman, Aaron – 7IM.8
Hinks, Mallory – 4AC.28
Hinterbichler, Hannes – 10HA.11
Hinterreiter, Stefan – 7LC.8
Hirai, Kojiro – 10WA.1
Hirano, Tomoyuki – 2MS.4, **4MS.14**
Hirnuma, Naruki – 2IN.7, 4IN.13
Hirasawa, Makoto – 3MS.4
Hiroki, Kurita – **4CA.12**
Hiroshi, Enomoto – 10CB.13
Hiroyuki, Hagino – **7IM.30**, **7IM.31**
Hirvonen, Maija-Riitta – 3OF.5, 6CD.7
Hitzenberger, Regina – 4CA.12, 6CC.1
Ho, Kin-Fai – **7CB.7**, 12SA.1
Hochgreb, Simone – 10LC.16, 11LC.4
Hodas, Natasha – 10BA.6
Hodshire, Anna – 2RA.3, **7TT.1**, 12AC.1
Hodzic, Alma – 4AC.7, 12AC.1
Hoecker, Christian – 10AP.8
Hoeng, Julia – 4MD.8, 6AM.4
Hofbauer, Victoria – 10AC.15, 13AC.6
Hoffmann, Michael – 2AC.3, 13BA.2
Hogan Jr., Christopher – 4AM.15,
7AP.22, 9AP.7, 11CB.2, **14AP.3**
Hogekamp, Stefan – 10LC.18
Hohaus, Thorsten – **8AC.5**
Hoisington, Andrew – **10BA.18**
Holanda, Bruna A. – 2AP.1, 4AP.21,
11BA.8, **12AP.2**, 12RA.8
Holappa, Rachael – 4AC.38
Holbrook, Landon – 1MD.2, 4MD.11
Holbrook, Michael – 7IB.9
Holder, Amara – **7LC.6**
Holland, Troy – 7CB.2
Holler, Stephen – 7LC.4
Holm, Christian – 4AM.10
Holopainen, Jarmo – 4AC.29
Holoubek, Ivan – 4CA.24
Holt, Gregory – 3CM.3
Holubová Šmejkalová, Adéla –
4AP.12, 4CA.3
Holzinger, Rupert – 8AC.5
Honda, Akiko – 13TO.2
Hong, Heekyoung – 4OF.7
Hong, Jinpyo – 7TT.14
Hong, Juan – 10AC.13
Hong, Seokjun – 4IM.2
Hong, Seung Chan – 7BA.12
Hong, Youdeog – 4OF.7
Hongbin, Xie – 2AC.2
Hoose, Corinna – 3IN.1, 6CC.4
Hopke, Philip K. – **4ED.7**, 5RA.6, 7LC.18,
10MG.6, 10SA.4, 10SA.5, **10SA.13**,
11LC.1, **12MG.7**, 14CA.4
Hopkins, James – 9MG.8
Hoppe, Clara – 7AP.29
Hoque, Shamia – 10BA.12
Hornbuckle, Keri – 14HA.2
Horne, Jeremy – 4AC.28

Horner, Sharon – 3IA.3
Hórrak, Urmas – 7AM.1, 9IM.2
Horvath, Helmuth – 5RA.7
Horvatin, Matthew – 8AE.7, 10IM.5
Hossain, M.D. – 7AE.1
Hostetler, Chris – 7CC.13
Houle, Frances – 6AC.7
Houlton, Benjamin – 7AM.16
Houot, Sabine – 4AC.34
Housiadas, Christos – 4AP.11
Hovorka, Jan – 7TT.10, 10SA.28
Howe, Katie – 1MD.2
Howell, Steven – 7TT.11
Hoyle, Christopher R. – 4AC.20, 10AC.6, 10AC.10
Höhler, Kristina – 2IN.7, 4IN.2
Hrabe de Angelis, Isabella – 2AP.1, 4AP.21, 11BA.8
Hsiao, Ta-Chih – 3AC.5, 4AE.3, 4AP.5, 7CC.4, 8AE.9
Hsieh, Chi-Ying – 7CB.16
Hsieh, Hsin-Hung – 14LC.2
Hsieh, Te-Hsien – 4CM.9
Hsieh, Wei-Jen – 7CC.4
Hsu, Chao-Ting – 4IM.12
Hsu, Chin-Yu – 1IA.8, 10SA.11
Hsu, Chun-Chia – 14LC.5
Hu, Dawei – 2AP.4
Hu, Jianlin – 3CM.1, 4AM.31, 5AM.5, 7MG.1, 10HA.7, 13MG.2
Hu, Jiawei – 4MD.10
Hu, Min – 7LC.19, 7MG.22, 12RA.4, 13MG.1
Hu, Weiwei – 4AC.7, 4OF.3, 5AC.1, 6IM.9, 13CA.4
Hu, Xiaoyu – 1OF.4
Hu, Yanjie – 2MS.8
Hu, Zhongfa – 14DU.1
Hua, Yang – 7MG.10
Huang, Angela – 14SA.3
Huang, Chien-Wei – 9LC.4
Huang, Chung-Hsuan – 4DU.4, 13CB.6
Huang, Dandan – 3AC.2, 4IM.16
Huang, Dao – 4AC.26, 4CA.20, 7IM.23
Huang, Kuo-Lin – 7CB.15, 7CB.16, 10CB.5
Huang, Lin – 7ES.16
Huang, Po-Hsiang – 4AP.5
Huang, Qishen – 6AC.1
Huang, Rujin – 7AC.40, 7CD.5, 8MG.4, 11MG.3, 12MG.8
Huang, Shan – 13SA.5
Huang, Sheng-Hsiu – 10IM.4
Huang, Shunxiang – 7ES.2
Huang, Wei – 2AC.5, 9AC.7, 10AC.13
Huang, Xiao – 13BA.2
Huang, Xu – 9WA.4
Huang, Yen-Chi – 14LC.5
Huang, Yuanlong – 1OF.6, 2AC.8, 2IM.1, 11IM.2
Huang, Yueqi – 2CM.1
Huang, Zhengxu – 6IM.8
Hubler, Mija – 10HA.3
Hudson, James – 7CC.1, 7CC.6
Hudson, Whitney – 14AC.6
Hudson, Wyndham – 4ED.4
Hueglin, Christoph – 10SA.21, 10SA.30, 12SA.6, 13CA.6, 14CA.1
Huey, Greg – 4CA.20, 7AC.23, 7MG.8, 11IM.6, 11MG.1, 13SA.8
Huffman, Donald R. – 10LC.15
Huffman, J. Alex – 7BA.2, 7BA.5, 7BA.17, 9BA.6, 10LC.15, 12BA.4
Huffman, Kevin – 12IM.4
Hughes, Dagen – 4RA.14
Hughes, Michael – 6TT.1
Huikun, Liu – 4RA.12
Huisman, Andrew – 6AC.4
Humphries, Ruhi – 1IN.4, 2IN.2
Hung, Chienchiao – 14LC.5
Huo, Jennifer – 12AC.5
Husain, Tahir – 4CA.1
Hussain, Mirza M. – 8MG.5, 10MG.10, 14HA.4
Hussain, Saber – 5CD.5
Hussein, Tareq – 1IA.6
Hustins, Sarah – 4IA.14
Hwang, Brian – 7AM.8
Hwang, Jungho – 4CM.13, 5MS.6, 7IM.5, 10WA.5, 10WA.6
Hwang, Moon Se – 3CM.4, 7IA.1
Hyatt, Anna-Marie – 5CA.1
Hyun, Junho – 7IM.5
Iakovides, Minas – 14CA.6
Iannotti, Lora – 10LC.9
Iaukea-Lum, Michealene – 10DU.4
Ichihara, Fumitaka – 7IM.32
Ihalainen, Mika – 3OF.5, 11CA.5
Ihantola, Tuukka – 3OF.5
Iida, Kenjiro – 8IM.3
Iinuma, Yoshiteru – 14SA.1
Ikhenazene, Abd Raouf – 4CA.28
Ilavsky, Jan – 1DU.7
Imamura, Takashi – 7AC.10
Imanidis, Georgios – 3MD.1
Imperial, Lorelie – 4ED.1
Imre, Dan – 1AM.1, 4IN.13, 11AC.8
Inabinet, Laken – 12IM.4
Indugula, Reshmi – 7IB.3
Ingram, Stephen – 5AP.1, 9AC.6
Inomata, Satoshi – 7AC.10, 8AM.4
Inomata, Yayoi – 7TT.8, 14RA.6
Inoue, Koza – 4AP.1, 13TO.2
Inthavong, Kiao – 1MD.8
Inui, Takashi – 10CB.22, 10CB.23, 10CB.24
Ippolito, Irene – 13AP.8
Irena, Kranjc – 14CA.1
Irfan, Fareeha – 8AE.6
Irimiea, Cornelia – 4CA.28, 11CB.3
Irish, Victoria – 1IN.7
Irsig, Robert – 6IM.1
Irwin, Martin – 4CM.7, 13IM.6
Isaacman-VanWertz, Gabriel – 8AC.1
Isaxon, Christina – 7CD.11, 11HA.8
Isella, Lorenzo – 12AP.7
Isiugo, Kelechi – 11BA.4
Islam, Md. Robiul – 4CA.19
Islam, Mohammad Maksimul – 4IA.7, 12CB.5, 12CB.7
Isokääntä, Sini – 4AC.13, 7AC.15
Isotalo, Mia – 7CB.11, 8CB.4, 13SA.4
Ito, Kohei – 7IA.11, 10CB.21
Iwasaki, Moriaki – 10WA.1
Iyer, Siddharth – 2AC.6, 6IM.5, 7AP.24
Jackson, Brian – 4IA.14
Jacobs, Michael – 6AC.3, 6AC.7
Jacobsen, Nicklas R. – 4IA.13, 7CD.20
Jaeger, Rudolph – 4MD.8
Jaegle, Lyatt – 9MG.1

Jafari, Mohammad – 8CB.3
Jaffe, Daniel – 4CA.14, 10CA.4
Jaffrezo, Jean-Luc – 10SA.1, 14HA.5, 14HA.6
Jahl, Lydia – 4IN.11, 7AC.24
Jahn, Leif – 2IN.6, 3IN.5, 4IN.11
Jahrling, Peter – 7IB.9
Jain, Grishma – 4IA.7, 12CB.5
Jain, Kashish – 10HA.18
Jain, M.K. – 8ES.8
Jain, Sakshi – 9LC.5
Jain, Supreme – 4IA.17
Jain, V.K. – 10MG.4
Jakobi, Gert – 13CB.4, 13CB.5
Jakobsson, Jonas – 1IN.5, 1MD.4, 4MD.5
Jalava, Pasi – 3OF.5, 6CD.7
James, Eric – 9AM.4
Jandarov, Roman – 2IA.4
Janecek, Nathan – 4IM.23, 9LC.7, 14HA.2
Jang, Eunhwa – 10SA.9
Jang, Hee Dong – 4MS.2, 7MS.3, 7MS.6
Jang, Hong Ryang – 3CM.4
Jang, Myoseon – 4AM.12, 4AM.18, 4ED.4, 4ED.8, 6TT.2, 7AC.30, 10TO.4
Jangid, Ashok – 4AP.15, 5CA.2
Janhäll, Sara – 4IM.15
Jaoui, Mohammed – 4AC.2
Jaramillo, Isabel C. – 13TO.1
Jarzyna, Dirk – 12CB.1
Jasti, Rama Rao – 13AP.3
Jathan, Yajna – 4IM.18
Jathar, Shantanu – 1OF.3, 3ED.2, 4CA.2, 7AC.25, 7TT.1, 8AM.3, 8AM.4, 8LC.3, 10CB.10, 11LC.2
Javed, Wasim – 3CM.2, 5CM.6, 14CA.6
Jaxybayeva, Aigerim – 10LC.20
Jayaratne, Rohan – 10LC.1, 10LC.3, 10MG.9, 14RA.1
Jayne, John – 1OF.7, 3IN.6, 4OF.2, 6IM.9, 7AP.40, 7CB.18, 7IM.23, 8AC.8, 8AE.8, 8LC.8, 9AC.5, 9MG.8, 11CB.8, 11MG.2, 12SA.1
Jäckel, Udo – 7BA.10
Jähn, Michael – 4AM.7
Järllskog, Ida – 4IM.15
Järvi, Leena – 10SA.30
Järvinen, Anssi – 4IM.4, 4IM.22, 4RA.24, 5RA.4
Jean-Soro, Liliane – 10CB.9
Jedelsky, Jan – 10HA.4, 11HA.2
Jefferson, Melina – 2CA.7, 10CA.6, 11CB.4
Jen, Coty – 11CA.6
Jennings, Wiley – 10BA.4
Jensen, Keld A. – 7CD.20
Jensen, Rasmus Lund – 2IA.1
Jeon, Wonyoung – 4AM.19
Jeong, Cheol H. – 7CD.14, 8AE.1, 10SA.4, 4CA.29, 12MG.3, 14SA.3
Jeong, Seungryul – 10SA.9
Jeong, Taewuk – 10SA.9
Jerome, Murielle – 4AC.36
Jetzer, Martin – 3MD.1
Jezeq, Irena – 14CA.1
Ji, Dongsheng – 7MG.17, 14AC.4
Ji, Jichen – 10BA.5
Ji, Junho – 4IA.4
Jia-Xi, Shi – 4CM.6
Jialing, Guo – 12MG.5
Jiang, Dianping – 4MS.9
Jiang, Hao – 6MS.2
Jiang, Huanhuan – 4AM.18, 4ED.4
Jiang, Jia – 7AM.20
Jiang, Jingkun – 2IM.4, 4AC.10, 4IM.9, 5AC.4, 7MG.13, 7MG.24, 7MG.26, 8IM.8, 9WA.4, 10AC.11, 10AP.9, 12LC.2, 13AC.2, 13CB.2, 13IM.8
Jiang, Linhua – 9WA.4
Jiang, Wenqing – 12AC.4
Jiayang, He – 7LC.10
Jicha, Miroslav – 10HA.4, 11HA.2
Jimenez, Jose-Luis – 1OF.2, 4AC.7, 4AC.44, 4CA.26, 4OF.1, 4OF.3, 5AC.1, 6IM.9, 7MG.8, 8AC.6, 9MG.1, 11IM.3, 11MG.1, 12AC.1, 13CA.4
Jimenez, Rodrigo – 4CA.34, 11MG.6
Jin, Dandan – 6IM.3
Jin, Xiaoai – 4AP.6
Jin-Seon, Kim – 7CM.8
Jing, He – 13CB.1
Jingyun, Liu – 8MG.8
Jo, Duseong – 4AC.7
Jobson, B. Thomas – 11MG.1
Johansson, K. Olof – 11CB.6
John, Edward – 10HA.13
John, Fortner – 4MS.6
Johns, Brad – 7LC.5
Johnson, Alexander – 12IM.3
Johnson, Alexandria – 5IM.1
Johnson, David L. – 7IB.12
Johnson, James M. – 8AE.1
Johnson, Karoline – 11LC.7
Johnson, Matthew – 2CA.7, 8IM.9, 10CA.6, 11CB.4
Johnson, Michael – 9CA.1, 12CB.6
Johnson, Phillip R. – 4DU.5
Johnson, Tim – 3ED.2
Johnson, Tyler J. – 4CM.7, 11LC.4, 12IM.7, 13IM.6
Johnston, Murray – 4AC.11, 4AC.18, 6IM.4, 10AC.4, 13AC.5
Jokinen, Tuija – 10AC.7
Jokiniemi, Jorma – 3OF.5, 5CM.3, 6CD.7, 7CB.1, 11CA.5
Jones, Jenny M. – 2IN.7
Jones, Laurence – 4AM.17
Jones, Roderic – 7AC.14
Jonsson, Hafliði – 2CA.3, 10BA.6
Joo, Hungsoo – 10TO.4, 11MG.5
Joo, Taekyu – 4AC.9, 4AC.26, 4AC.33, 4CA.20, 7IM.23, 12AC.6
Jordan, Alfons – 6IM.6
Jorga, Spiro – 10AC.5
Jorquera, Hector – 2IA.2, 13MG.7
Josephson, Alexander – 7CB.2
Joshi, Bhuvana – 3RA.4
Joshi, Manish – 4AM.3, 4AP.24, 4IM.25, 4RA.9, 7AM.9
Joshi, Rutambhara – 7AP.28, 7AP.30, 10MG.12
Josie, Little – 9AC.2
Jousse, Cyril – 10BA.10
Joutsensaari, Jorma – 11CA.5, 14RA.3, 14RA.4
Ju, Yiguang – 1DU.6
Jud, Corinne – 3MD.3
Juenger, Hans – 2MS.2
Jung, Chien-Cheng – 7TT.5
Jung, Jae Hee – 7BA.12, 7BA.14, 11BA.7
Jung, Jason Injae – 7AP.40
Jung, Sung-Woon – 4OF.7
Jung, Sungyoon – 7IM.12, 7MS.9

Jung, Wonseog – 7IA.2
Jung, Wooik – 5MS.4
Jung, Yoon-ho – 5MS.4
Jung-Nan, Hsu – 7LC.12
Jungnickel, Harald – 4AE.16
Junninen, Heikki – 1AM.4, 2AC.6, 4AC.22, 7AM.1, 7AP.29, 7MG.13, 9IM.2, 10AC.2, 10AC.7, 11MG.7
Juuti, Paxton – 7MS.12, 13IM.3, 13IM.7
K., Rasma – 4RA.23
Kacarab, Mary – 7AC.38, 7CC.13
Kachhara, Ayushi – 11LC.3
Kacica, Clayton – 6MS.9, 7MS.4
Kaibo, Li – 6AM.9
Kailath, Deepti – 10HA.18
Kaipio, Jari – 7AM.12, 8AM.7
Kajii, Yoshizumi – 4OF.4
Kalberer, Markus – 4AC.12, 11HA.4, 14HA.5
Kallinen, Kauko – 7CB.11
Kalliokoski, Joni – 5RA.4, 8CB.7
Kalnajs, Lars – 2RA.5
Kalogridis, Athina-Cerise – 10SA.23, 14CA.2
Kaltsonoudis, Christos – 10AC.5
Kalume, Aimable – 5IM.3, 6AC.5, 10BA.16, 11AP.4, 11BA.1
Kalynovskiy, Alexandr – 4CM.10
Kameda, Takayuki – 4CA.12, 13TO.2
Kaminski, Heinz – 8LC.6
Kamiya, Ryuzaburo – 7LC.11
Kammer, Julien – 4AC.34
Kanakidou, Maria – 11HA.3
Kanaparthi, Mark – 4IM.26, 14LC.1
Kanashova, Tamara – 6CD.7
Kanawade, Vijay – 2RA.7, 7ES.11
Kanaya, Yugo – 1RA.6
Kandler, Konrad – 4IN.2, 14RA.2
Kane, David – 4AP.7
Kanemaru, Aoi – 10HA.1
Kang, Ki-tai – 7LC.15
Kang, Mingjie – 10RA.8
Kang, Seokwon – 4AC.30, 4OF.7
Kang, Seungkoo – 7AM.13, 7IM.10
Kang, Suji – 4CM.17, 7IM.35, 7TT.14
Kang, Sungah – 1AC.7
Kang-Ming, Xu – 8AC.5
Kangasluoma, Juha – 2IM.2, 2IM.4, 4AC.37, 8IM.8, 5AP.7, 7MG.13, 7MG.24, 10AC.8, 10IM.15, 13AC.2, 13AC.8
Kanji, Zamin Abdulali – 1IN.6, 4IN.22
Kannan, Ravi – 6AM.4
Kanno, Jun – Plenary IV
Kanyomse, Ernest – 7CB.9
Kapadia, Behram – 6AM.8
Kara, Levent Burak – 8LC.1
Karaismail, Fatma – 10CB.12
Karakocak, Bedia – 3ED.6, 7CD.4
Karakocak, Bedia Begum – 6MS.4
Karavalakis, Georgios – 7CD.12, 8CB.1, 8CB.5, 10CB.1, 10CB.26
Karg, Erwin – 5CD.4
Kari, Eetu – 4AC.13, 4AC.29, 4OF.8, 5AP.3, 7AC.15, 7AC.19
Karibayev, Mirat – 4AM.21
Karjalainen, Panu – 2IM.8, 4RA.24, 8CB.7
Karlsson, Amy – 7IB.14
Karnezi, Eleni – 6TT.9, 13CA.5
Karvanen, Juha – 8AM.5
Kasemets, Kaja – 13TO.5
Kaskaoutis, D.G. – 7MG.15
Kasper, Gerhard – 13TO.8
Kasthuriarachchi, Nethmi – 3AC.3, 4CA.5
Kasurinen, Stefanie – 6CD.7
Katergi, Maria – 10IM.9
Kateris, Nikolaos – 4MS.16, 10AP.8
Katich, Joseph – 4CA.21, 12AC.1
Katira, Shachi – 7AP.40
Kato, Shungo – 4OF.4
Katra, Itzhak – 2RA.8
Katul, Gabriel – 4AC.22, 6TT.8
Katz, Erin – 4AE.13
Katz, Joseph – 12IM.5
Kaul, Daya – 7LC.7
Kaunelien, Violeta – 7IA.5
Kauppinen, Esko – 4MD.9
Kaur, Kamaljeet – 13TO.1
Kaushal, Deepak – 7IB.24
Kavadiya, Shalinee – 4MS.11, 6MS.4, 6MS.5, 7MS.11
Kawada, Yoshihiro – 10CB.21
Kawakami, Hitomi – 10CB.23, 10CB.24
Kawamura, Kimitaka – 4OF.4, 14AC.3
Kaye, Lucy – 1DU.1
Kaye, Paul – 10BA.7
Kazemimanesh, Mohsen – 5CA.6, 11CB.4
Kazuhiro, Ikeda – 4CA.12
Kåredal, Monica – 11HA.8
Kämpf, Kerstin – 7CD.6
Käthner, Ralf – 4AP.22
Ke, Kai-Wei – 1IA.8
Keady, Patricia – 7BA.16
Kedia, Krishna – 4CA.15
Kehren, Dominic – 10WA.3
Keinert, Alice – 2IN.3
Kelesidis, Georgios – 4AP.26, 12AP.3
Keller, Alejandro – 10CA.2
Keller, Justin – 2IA.8
Kelly, Frank J. – 10SA.30
Kelly, Kerry – 9LC.8, 13TO.1, 10LC.8
Kelly, Lurie – 14HA.4
Kempf, Andreas – 2MS.2
Kemppinen, Osku – 7IM.27, 7LC.4
Kenseth, Christopher – 2AC.8
Keraitytė, Karolina – 7IA.5
Kerecman, Devan E. – 6IM.4
Kerkez, Branko – 7LC.22
Kerminen, Veli-Matti – 1AM.4, 5AP.6, 7AP.29, 8ES.5, 10AC.7
Kerner, Maximilian – 13AP.3
Kesavan, Jana – 1MD.6, 7CD.2, 10BA.17, 11BA.6
Keskinen, Jorma – 2IM.8, 4IM.4, 4IM.19, 4RA.24, 5RA.4, 8CB.4, 8CB.5, 8CB.7, 9WA.6, 13IM.3, 13IM.7
Kesti, Jutta – 7TT.3
Kettunen, Mika – 8CB.4
Ketzel, Matthias – 4CA.4
Keutsch, Frank – 4AC.19, 6AC.4, 11AC.6
Keyser, Emma – 7IB.4, 8IB.9
Keywood, Melita – 1IN.4
Khaksari, Maryam – 4IM.13
Khalaf, Hyam – 4IA.9, 4RA.3
Khalaj, Fatemeh – 1OF.7, 4AC.29, 4OF.2
Khan, Arshad – 4AM.3, 4AP.24, 4IM.25, 4RA.9, 5CM.7, 7AM.9
Khan, Kamran – 8MG.5, 14HA.4
Khan, Munjurul Hannan – 12MG.4

Khan, Saira – 7MG.6
Khanal, Nita – 3RA.2, 4CA.19, 8ES.6
Khandare, Pallavi – 4RA.9
Khare, Peeyush – 4AC.9, 12AC.6
Khatib, Fida – 14HA.4
Khatri, Dishant – 4DU.3, 4DU.7, 10DU.1
Khlystov, Andrey – 4AC.42, 6TT.8, 8AE.8, 8ES.7, 10DU.4
Khodyko, Yuliya – 4MS.3
Khot, Amit – 12CB.1
Khwaja, Haider – 8MG.5, 11MG.4, 14HA.4, 10MG.10
Kianfar, Bahareh – 13TO.5
Kiendler-Scharr, Astrid – 1AC.7, 3RA.6, 4AC.14, 4AC.15, 4OF.3, 8AC.5
Kiesler, Dennis – 13IM.4
Kil, Dae Sup – 7MS.6
Kill, Erick – 8LC.9
Killeen, Stephanie – 7IB.24
Kim, Bong – 1AC.5
Kim, Chan Mi – 7MS.6
Kim, Changhyuk – 4IM.10, 7AP.24, 7IM.15
Kim, Daeun – 10TO.4
Kim, Gibaek – 4AP.20, 7IM.25, 7IM.26, 13AP.7
Kim, Hak-Joon – 4IA.6, 7CM.6, 7CM.8, 7CM.10, 7IM.35
Kim, Han-Bin – 4CM.12, 4CM.15
Kim, Hee-Sang – 8LC.5, 10RA.13
Kim, Hwajin – 4AP.25, 13AC.3
Kim, Injeong – 10TO.4
Kim, Jaeseok – 4MS.23
Kim, Jean – 7IB.22
Kim, Jeong Soo – 4AC.30
Kim, Jeongeon – 2IM.7
Kim, Jin Sik – 4CM.14, 4CM.15
Kim, Jin Young – 1AC.5
Kim, Jong Bum – 3CM.4, 7IA.1
Kim, Jong Oh – 5MS.6
Kim, Jounghwa – 4OF.7
Kim, Kyoungtae – 7IM.25, 7IM.26
Kim, Kyunghoon – 4AC.30, 4OF.7
Kim, Kyungjoo – 7IM.26
Kim, Najin – 7AC.29, 9MG.3
Kim, Sang Don – 10TO.4
Kim, Seong – 7CM.9
Kim, Seongshik – 4CA.20, 7IM.23
Kim, Steve – 4AC.26
Kim, Sun Kyung – 4MS.2, 7MS.3, 7MS.6
Kim, Sunmoon – 4OF.7
Kim, Taesung – 4IM.2, 7IA.2
Kim, Woo-Young – 8LC.5, 10RA.13
Kim, Yong-Jin – 4IA.6, 7CM.6, 7CM.8, 7CM.10, 7IM.35
Kim, Youngseob – 14AC.2
Kimak, Adam – 10CA.2
Kimbell, Julia – 4MD.11
Kimbrough, Sue – 7LC.5, 7LC.6
Kimoto, Takashi – 7MG.11
Kinahan, Sean – 7BA.6, 8AC.9, 10BA.16, 11BA.1
King, Benjamin – 14HA.2
King, Brandon – 10CB.10
King, Maria – 12BA.6
Kinney, Kerry – 3IA.3, 10BA.4, 12BA.6
Kirchstetter, Thomas W. – 6AE.7, 9LC.1, 12LC.7
Kiriya, Miho – 4AP.1
Kirkby, Jasper – 5AM.6, 7AP.24, 10AC.9, 10AC.15, 13AC.1, 13AC.4
Kiselev, Alexei – 2IN.3, 2IN.7
Kivimäenpää, Minna – 4AC.29
Klán, Miroslav – 7TT.10
Klapetek, Petr – 10IM.6
Klara, Nestorowicz – 4AC.2
Klauck, Michael – 2CM.7
Kleeman, Michael – 1AM.2, 5AM.2, 7AM.16, 9AM.5, 12CB.2
Klein, Felix – 4IA.1, 7AC.40
Kleindienst, Tad – 4AC.2
Kleinheksel, Abby – 7BA.22
Kleinman, Lawrence – 13CA.2
Kleinstreuer, Clement – 6AM.5
Kleist, Einhard – 1AC.7, 4AC.14, 4AC.32
Klimach, Thomas – 12AP.2
Kling, Kirsten – 7CD.20, 10CB.7
Klinger, Andreas – 7IM.29
Kliucininkas, Linas – 1CM.4
Kluge, Sebastian – 2MS.2
Knackstedt, Kathryn A. – 4IN.6
Knibbs, Luke – 12MG.3
Knighton, Berk – 4CA.2
Knipping, Eladio – 1AC.1
Knopf, Daniel – 1IN.3, 1IN.8, 1RA.8, 4IN.3, 4IN.4, 4IN.14, 12AC.3
Knote, Christoph – 7MG.8, 12AP.2
Knudsen, Kristina B. – 7CD.20
Ko, Joseph – 4CA.35
Kobalz, Jeffrey – 2CM.7
Kobayashi, Shinji – 4CA.6
Kobrzek, Filip – 7TT.10
Kodros, Jack – 2RA.3, 5AC.1, 6TT.1, 6TT.4, 12AC.1, 12CB.6
Koehler, Kirsten – 6AE.9, 7LC.22, 11LC.5, 12IM.5
Koehler, Véronique – 13BA.6
Koenig, Theodore – 7AP.24
Kohl, Lukas – 4IA.14
Koike, Makoto – 3IN.4
Koji, Yasumoto – 7CB.19
Kokkola, Harri – 4AM.20, 7AM.5
Kokubu, Satoshi – 10CB.24
Kolb, Charles – 7AP.40
Kollias, Pavlos – 1RA.3
Kolodziejczyk, A. – 4AC.2
Kolonjari, Felicia – 10RA.10
Komsaare, Kaupo – 9IM.2
Konakbayeva, Dinara – 4AM.21
Kondo, Yoshinori – 4CA.6
Kondo, Yutaka – 3IN.4
Kondragunta, Shobha – 9AM.4
Kong, Weimeng – 5AP.4, 11IM.2
Kong, Xiangrui – 3IN.2
Konist, Alar – 10CB.25
Konstantinidis, Kostas – 10BA.6
Kontkanen, Jenni – 5AP.2, 10AC.2, 11MG.7
Koo, Bonyoung – 10SA.10
Kook, Shawn – 10CB.7
Koontz, Annette – 1RA.7
Koponen, Hanna – 5CM.3
Korhonen, Frans – 2IM.2, 8IM.8, 10IM.15
Korhonen, Hannele – 6CC.4
Kormos, David – 4IA.16
Kormuth, Karen – 6IB.7
Korobov, Nikolai – 4AC.25
Korshin, Gregory – 10LC.6
Kortelainen, Miika – 3OF.5, 5CM.3
Koss, Abigail – 10AC.16, 13CA.1

Kostenidou, Evangelia – 13CA.5
Kostiuk, Larry W. – 7CB.12
Kostoglou, Margaritis – 12AP.7
Kota, Sri – 4AE.6, 10HA.7
Kotalczyk, Gregor – 8AM.6
Kotb, Mohamed – 12BA.1
Kotnala, R.K. – 4AM.25
Kotowitz, Paige – 6AC.4
Kotsakis, Alex – 4AC.16
Kotthaus, Simone – 10MG.12, 13MG.4
Kourtchev, Ivan – 14HA.5
Kousa, Anu – 4RA.24
Kozak, Max – 4MD.2
Kozáková, Jana – 10SA.28
Köhler, Markus – 13CB.7
Könemann, Tobias – 2AP.1, 4AP.21, 7BA.2, 12BA.4
Kraft, Markus – 11CB.5
Kraft, Martin – 2AP.2, 7IM.1, 9IM.5
Krais, Anette – 2IA.6
Kramer, Amber – 4AC.24, 5AC.7
Krasnomowitz, Justin – 4AC.11, 13AC.5
Krasnov, Victor – 4CM.10
Krasovitev, Boris – 2RA.8
Krasowsky, Trevor – 4CA.35
Krause, Theodore – 1DU.7
Krebs, Tobias – 6CD.6, 6CD.7
Krechmer, Jordan – 1OF.1, 1OF.7, 4AC.37, 4OF.2, 4OF.3, 6IM.2, 7CB.18, 8AC.1, 8AC.6, 8AC.8, 9AC.5, 11IM.3
Krecl, Patricia – 4CA.4, 9MG.2
Kreidenweis, Sonia – 1IN.4, 2IN.2, 4AP.10, 4CA.1, 7TT.1
Kreisberg, Nathan – 7IM.3, 10IM.13, 11CA.6, 12SA.1
Krejci, Radek – 13AC.8, 14SA.6
Krentz, Christine – 7BA.2
Krieger, Ulrich – 7AC.16
Krinke, Thomas – 7AP.39, 10IM.10
Krishnan, Subash – 4MD.8, 7IM.11, 11IM.5
Kristensen, Thomas – 12CB.8
Kristina, Glojek – 14CA.1
Kroll, Jesse – 4AC.19, 4CA.2, 5IM.7, 8AC.1, 8LC.8, 10AC.16, 10HA.12, 11AC.6, 12LC.1, 13CA.1
Kronenburg, Andreas – 4AM.10
Krugly, Edvinas – 1CM.4
Kruis, Frank Einar – 8AM.6, 13IM.4
Krumdick, Gregory – 1DU.7
Krumins, Valdis – 7BA.15, 7CC.8
Krüger, Ovid – 11BA.8
Křůmal, Kamil – 10SA.28
Ku, Bon Ki – 10HA.2, 10HA.5
Kuang, Chongai – 1RA.2, 1RA.3, 1RA.7, 9IM.1
Kuang, Xiaobi – 11AC.2
Kubo, Masaru – 4MS.7, 4MS.8, 4MS.9, 6MS.1
Kuczaj, Arkadiusz – 4MD.8, 6AM.4
Kudzotsa, Kudzotsa – 4AM.20
Kuehl, Philip – 3MD.4, 10TO.9
Kuerbanjiang, Nueraili – 10LC.7
Kuittinen, Niina – 8CB.5, 13SA.4
Kujansuu, Joni – 7MG.13, 7MG.24, 13AC.2
Kukutschová, Jana – 4RA.30
Kulka, Ryan – 7CD.14
Kulkarni, Gourihar – 4IN.14
Kulkarni, Pramod – 5IM.6, 7IM.17, 7IM.18, 8AE.3
Kulkarni, R. – 10MG.3
Kulmala, Markku – 1AM.4, 2AC.2, 2AC.6, 2IM.2, 4AC.22, 5AP.2, 5AP.6, 7AP.24, 7AP.29, 7MG.13, 7MG.24, 8ES.5, 10AC.2, 10AC.7, 10AC.8, 10AC.13, 10SA.30, 12MG.3, 13AC.1, 13AC.2, 13AC.8
Kumala Sari, Dyah – 5RA.6
Kumar, Anikender – 1AM.2, 5AM.2, 7AM.16, 9AM.5
Kumar, Arun – 13TO.3
Kumar, Atul – 7ES.12
Kumar, Bharath – 5AM.3
Kumar, Krishan – 7MG.23, 10MG.4
Kumar, Manish – 12SA.5
Kumar, Manoj – 7MG.16
Kumar, Navneet – 4CA.22
Kumar, Nivedita – 13SA.1
Kumar, Prashant – 7AE.10, 8AE.4
Kumar, Purushottam – 10SA.25, 11AC.3
Kumar, Rakesh – 7MG.21, 10MG.15
Kumar, Ram – 7MG.23
Kumar, Ranjit – 4AP.15, 5CA.2, 10BA.8, 10MG.8, 13CB.1
Kumar, Ravi – 10AC.17
Kumar, Ravi Ranjan – 8ES.8
Kumar, Samresh – 7AC.32, 10RA.12
Kumar, Satheesh M K – 4RA.16
Kumar, Srinivasa P.N. – 12LC.4
Kumar, Srinivasa Prabhu Nehru – 8LC.1
Kumar, Varun – 9MG.5, 10MG.17, 11AC.3, 12MG.8
Kumaragama, Kavindra – 7IB.17, 10BA.24
Kumaraswamy, Rampura Vishwanath – 4MS.4
Kumari, K. Maharaj – 7AC.33
Kumari, Sarita – 4MS.4
Kumfer, Benjamin M. – 4DU.5, 10CB.12
Kumita, Mikio – 4AP.4
Kun, Robert – 2MS.5, 2MS.6
Kundu, Seema – 4AC.27
Kuo, Chun-Chiang – 7CC.4
Kuo, Yu-Mei – 10IM.4
Kup ík, Jaroslav – 4MS.10
Kupc, Agnieszka – 1AM.5, 2IN.4, 2RA.3, 5AM.8, 8ES.2, 11CA.1
Kuperman, Sofia – 14AP.2
Kupiainen-Määttä, Oona – 4AC.46
Kupper, Martin – 2AP.2, 7IM.1, 9IM.5
Kupri, Hanna Lii – 7CB.6, 10CB.25
Kurniawati, Syukria – 5RA.6
Kurosowa, Keiichi – 4AP.2
Kuruma, Yuuki – 4OF.4
Kusdianto, K. – 4MS.8, 4MS.9
Kusmartini, Indah – 5RA.6
Kuster, Bill – 11MG.1
Kutsovsky, Yakov – Plenary II
Kuula, Joel – 9WA.6
Kuuluvainen, Heino – 4RA.24, 5RA.4, 13SA.4
Kuwata, Mikinori – 7AC.3, 7AE.3
Kuzmiakova, Adele – 7IM.21
Kügler, Michael – 9IM.5
Kühn, Thomas – 7AM.5
Küpper, Miriam – 3IA.1
Kürten, Andreas – 7IM.24, 10AC.9, 13AC.4, 13AC.7
Kwak, Jihyun – 7IM.25
Kwak, Min Jeong – 4MS.23
Kwak, Nohhyeon – 7IM.26
Kwasny, Jeffery – 12AC.7

Kwon, Oh-Myoung – 10WA.5
Kwong, Kai Chung – 1AC.2
L'Orange, Christian – 3ED.2, 8LC.3, 9CA.1, 11LC.2, 12CB.6
Laakso, Anton – 8AM.7
Laaksonen, Ari – 4IN.19, 6CC.4, 14RA.3, 14RA.4
Lacey, Ronald – 12BA.6
Lachapelle, Barbara – 8AE.1
Lackemeyer, Matthew – 7IB.9
Ladino, Luis Antonio – 1IN.7, 8MG.7
LaDuke, Gil H. – 7CB.8, 7CD.17, 10DU.6
Lafouge, Florence – 4AC.34
LaFranchi, Brian – 6AE.7, 9LC.1
Lage, Joana – 2IA.7, 3IA.5
Lagree, Marie – 10BA.10
Laguionie, Philippe – 4RA.1, 4RA.20, 5RA.1
Lahav, Galit – 6CD.4
Lai, Alexandra – 10DU.5, 14SA.4
Lai, Ssu-Yin – 4IM.12
Lai, Wing-Tak – 7IM.10
Lai, Yongquan – 10TO.9
Laing, James – 4CA.14, 10CA.4
Laitinen, Ari – 5CM.3
Laj, Paolo – 13AC.8
Lakdawala, Seema – 6IB.7
Lakey, Pascale – 7AM.8, 7CD.13
Lakhani, Anita – 7AC.33
Lalanne, Matthieu Raphael – 2MS.2
Lalchandani, Vipul – 11AC.3
Lalemi, Lara – 7AC.2
Lam, Jared – 13CA.7
Lam, Nicholas – 4AC.27
Lamancusa, Carmen – 12SA.3
Lamb, Kara D. – 2CA.8, 7MG.8, 13CA.1
Lambe, Andrew – 1OF.1, 1OF.5, 1OF.7, 4OF.2, 4OF.8, 5CA.7, 7AC.19, 7AP.40, 8AC.8, 9AC.5, 11CB.8
Lamberg, Heikki – 11CA.5
Lamkaddam, Houssni – 4AC.20, 4AC.36, 8AC.4, 10AC.6, 10AC.10, 13SA.3
Lammel, Gerhard – 5CD.6
Lampilahti, Janne – 10AC.2
Lamplugh, Aaron – 4CM.1
Lance, Sara – 4CA.33, 5IM.1, 11AC.1, 11AC.4
Landi, Thiago – 4CA.4
Landis, Elizabeth – 4CA.32
Landu, Kiranmayi – 7ES.17
Landulfo, Eduardo – 4RA.28, 7ES.3
Lange, Robert – 2AP.6
Langford, Ben – 8MG.9, 10MG.12
Langridge, Justin – 4RA.4, 11CA.2
Lanzafame, Grazia Maria – 4AM.4, 10SA.1, 14AC.2
Larriba-Andaluz, Carlos – 6AM.8, 9IM.7
Lasitza Male, Tanya – 7CD.16
Laskin, Alexander – 1IN.8, 1RA.8, 4IN.14, 5AC.5, 8AM.2, 9AC.2, 9CA.5, 12AC.3
Laskin, Julia – 5AC.5, 9CA.5
Lathem, Terry – 4AC.3
Latif, Mohd Talib – 4CA.12, 7AE.3
Lau, Seng-Yong – 9LC.4
Laube, Beth – 1MD.6, 7CD.2
Lauer, Oliver – 11BA.8
Lauermann, Felix – 7TT.13
Lauri, Antti – 4ED.6
Laurila, Tiia M. – 2IM.2, 4AC.37
Laus, Michele – 10IM.6
Laux, Peter – 4AE.16
Law, Chung K. – 10CA.7
Lawal, Abiola – 5AM.1
Lawler, Michael – 7AC.28
Lähde, Anna – 11CA.5
Lähde, Tero – 2IM.8
Lähivaara, Timo – 14RA.3
Le, Chen – 7AC.38
Le, Thi-Cuc – 2CM.3, 4CM.9, 12IM.8
Lea-Langton, Amanda – 2IN.7
Leaitech, Richard – 7ES.16, 10RA.10
Leavey, Anna – 8AE.3, 8IB.5
Lechasseur, Ariane – 10HA.16
Lechon Perez, Yolanda – 3IA.5
Lednický, John – 5CD.5, 7BA.19, 7BA.21
Lee, Alex – 1RA.1, 2CA.2, 2RA.5, 3AC.3, 4CA.5, 12AC.5
Lee, Andrew – 7AP.40
Lee, Byoung Uk – 7BA.14
Lee, Celine Siu Lan – 7TT.5
Lee, Chongmin – 4MS.2
Lee, Chuan Ping – 4AC.20, 8AC.4, 10AC.6, 10AC.10
Lee, Chung-Te – 3AC.5, 10RA.6
Lee, Donggeun – 2IM.7, 5CM.2
Lee, Dongjoon – 4MS.15
Lee, Eric Monsu – 7BA.22
Lee, Eunbi – 10TO.4
Lee, Fang-Ching – 4CM.11
Lee, Gayoung – 4CM.17, 7TT.14
Lee, Gun-Ho – 7IM.28
Lee, Gwang-Jae – 4IA.4
Lee, Haebum – 7IM.25, 7IM.26
Lee, Hansol – 7AC.8
Lee, Heesung – 7IM.25
Lee, Hyunwoo – 4AM.19, 7AM.17
Lee, Jae-In – 3CM.4
Lee, James – 7AC.14, 9MG.8, 10MG.12
Lee, Ji Yi – 10TO.4
Lee, Jia-Twu – 7CB.15, 10CB.5
Lee, Ki Bong – 4CM.12
Lee, Kiwoong – 4MS.15
Lee, Kwangyul – 10TO.4, 11MG.5, 14RA.6
Lee, Lance – 6AC.7
Lee, Miji – 5CM.2
Lee, Mindo – 4AC.30
Lee, Myong-Hwa – 4CM.12, 4CM.13, 4CM.14, 4CM.15
Lee, Pius – 7AC.12
Lee, Sang Don – 7IB.22
Lee, Sang-Bo – 4AC.30
Lee, Sang-Mi – 13MG.3
Lee, Seokhwan – 4AP.20, 13AP.7
Lee, Seung Hwan – 4AC.30, 4OF.7
Lee, Seung-Bok – 3CM.4, 4IA.2
Lee, Shanhu – 4AC.11, 13AC.5
Lee, Shao-Tai – 4CM.6
Lee, Si-Young – 12IM.4
Lee, Taehyoung – 4AC.30, 4AP.10, 4OF.7, 6IM.9, 7MG.8
Lee, Wen-Jhy – 4AM.8, 4CM.11, 10CB.4
Lee, Woo Jin – 4CM.13, 4CM.15
Lee, Yen-Yi – 4CM.11
Lee, Yi-Lian – 7IB.16
Lee, Yongil – 7IA.2
Lee-Taylor, Julia – 1OF.2
Lefer, Barry – 10SA.20, 11MG.1
Lefevre, Guillaume – 4CA.28

Leglise, Joris – 6IM.7, 7IM.29
Lehtinen, Kari – 7AM.5, 7AM.12, 8AM.7, 9AP.5, 13AP.2, 14RA.3, 14RA.4
Lehtipalo, Katrianne – 2AP.3, 7AP.24, 10AC.7, 10AC.8, 13AC.1, 13AC.8
Lehtoranta, Kati – 7CB.11, 7CB.20, 8CB.4
Lei, Ziyang – 1AC.4, 4AC.5, 7AP.27, 9AC.5
Leigh-Manuell, Dylan – 2IM.6
Leiminger, Markus – 6IM.6
Lein, Pamela – 6CD.9, 7CD.9
Leino, Katri – 10AC.2
Leinonen, Ville – 8AM.5, 14RA.4
Leisner, Thomas – 2IN.3, 2IN.7, 4IN.2
Leith, David – 3ED.2
Lelieveld, Jos – 12BA.4
Lelieveld, Steven – 5CD.6
Lemaitre, Pascal – 9AP.1
Lemay, Stéphane.P – 13BA.4
Lemieux, Joanie – 7BA.8, 10BA.11
Leni, Zaira – 11HA.1, 14HA.6
Leppänen, Maija – 9WA.5, 11LC.6
Leresche, Frank – 4AC.35, 7AC.20
Lersch, Traci – 12SA.8, 14HA.2
Leskinen, Ari – 3OF.5, 4AC.13, 7AM.12, 8AM.5
Lestiani, Diah – 5RA.6
Lestremau, François – 7CB.5
Létourneau, Valérie – 7BA.20, 10BA.11, 13BA.4
Leung, Luke – 6AE.4
Leuzinger, Florence – 10HA.9
Leverton, Tyler – 4AC.39, 4IM.13
Lévesque, Ariane – 7BA.20, 13BA.4
Levin, Ezra – 1IN.4, 2IN.8, 4AP.10
Levula, Janne – 10AC.2
Lewandowski, Michael – 4AC.2
Lewane, Liam – 4CA.2, 10CB.10
Lewis, David – 3MD.2
Lewis, Ernie R. – 13CA.2
Lewis, Grace – 10IM.8
Lewis, Gregory – 4IM.10, 4IM.29, 7IM.3, 9IM.8
Lewis, Savannah – 8ES.1
Li, An-Chi – 7IA.3
Li, Anna – 7MG.3
Li, Bai – 4RA.10
Li, Changkang – 14DU.3
Li, Chengcai – 6CC.2
Li, Chenxi – 4AM.15, 7AP.33
Li, Chunlin – 3OF.3
Li, Fei – 7AC.21
Li, Guohui – 7MG.5
Li, Haipeng – 2MS.6
Li, Hanyang – 2CA.8, 10CA.4, 10CA.10
Li, Hong – 3CM.3
Li, Hugh – 6AE.6
Li, Hui – 10MG.9
Li, Jianjun – 4AC.4, 4RA.17
Li, Jiayu – 5IM.6, 7AC.36, 8IB.5, 9LC.6
Li, Jie – 9MG.4
Li, Jin – 4RA.17
Li, Jing – 6CD.8, 7IB.18, 10TO.3, 11HA.5, 14BA.3
Li, Jingyi – 5AM.5
Li, Lei – 6IM.8
Li, Li – 4IM.5, 10SA.7, 11MG.7
Li, Liang – 7MG.17
Li, Lijie – 2AC.3, 13BA.2
Li, Lin – 7BA.1
Li, Liqiao (Vicky) – 4AE.8
Li, Mei – 6IM.8, 7AC.13
Li, Ning – 10HA.3
Li, Pengfei – 4AC.27
Li, Qing – 2CM.2, 4CA.11, 7AC.6, 10AP.9, 10TO.5
Li, Shao-Meng – 9AM.3, 12AC.5
Li, Shiguang – 7IA.8
Li, Shuaishuai – 14DU.1
Li, Shuiqing – 1DU.8, 4IM.8, 14AP.6
Li, Siyang – 6AC.8
Li, Sufen – 13AP.4
Li, Tianxiang – 1DU.5
Li, Xiangdong – 12SA.1
Li, Xiaobin – 4RA.10
Li, Xiaoxiao – 5AC.4, 10AC.11
Li, Xiaoying – 4AE.1
Li, Xinyue – 6CD.8, 7IB.18, 10BA.3
Li, Xue – 4IM.16, 6IM.3, 6IM.8, 13AP.4
Li, Yan – 14DU.1
Li, Yaowei – 11MG.2, 12RA.6
Li, Yen-Ting – 7LC.27
Li, Yin – 12CB.2
Li, Ying – 5AC.5, 8AM.8, 9AC.8, 9CA.5
Li, Yong Jie – 1OF.8, 3OF.4, 6IM.3
Li, Yunfeng – 2MS.8
Li, Yuran – 4MS.22
Li, Zhanqing – 4AP.6
Li, Zhen – 4IM.9
Li, Zhengqiang – 4AP.8
Li, Zhichao – 4CM.8, 5IM.6, 6AM.7, 7AM.2, 13CB.3
Li, Zhongju – 7AE.4
Li, Zijun – 5AP.3, 7AC.19
Li, Ziyi – 1CM.3, 2CM.3, 4CM.9
Liakakou, Eleni – 4CA.30
Lian, Hongyang – 4AC.1
Lian, Yang – 10SA.24
Liang, Cai – 4MD.10, 10AP.6
Liang, Chengsi – 7AM.10
Liang, Mingjie – 7MG.1
Liang, Weizhao – 10MG.16
Liang, Yue – 4CA.5
Liang, Yun – 1CM.8
Liangou, Aikaterini – 2RA.4, 8AC.7
Liao, Bo-Xi – 4IM.6
Liao, Jin – 11MG.1
Liao, Keren – 1OF.8, 3OF.4, 4OF.5
Libera, Joseph – 1DU.7
Lichtenberg, William – 10CB.26
Lienhard, Daniel – 11HA.4
Liggio, John – 12AC.5
Lim, Christopher – 4AC.19, 4CA.2, 10HA.12, 13CA.1
Lim, Heung-Bin – 10TO.4
Lim, Yong – 1AC.5
Lin, Chih-Chung – 7CB.15, 7CB.16
Lin, Chih-Wei – 10IM.4
Lin, Ching-Long – 1MD.1
Lin, Chunshui – 14DU.2
Lin, Elizabeth – 8AE.6
Lin, Jing-Chi – 4AE.3
Lin, Kaisen – 6IB.7
Lin, Liang-Yi – 6MS.4
Lin, Lung-Chi – 9LC.4
Lin, Ming-Yeng – 6TT.8, 13TO.7
Lin, Neng-Huei – 3AC.5, 7CC.4, 10RA.6
Lin, Peng – 4IN.14, 5AC.5, 8AM.2, 9CA.5
Lin, Sheng-Lun – 4CM.11, 10CB.5

Lin, Weiyang – 7TT.2
Lin, Wen-Yinn – 4CM.5, 4CM.6, 7CB.15, 7CB.16
Lin, Yan – 4AE.8, 6AE.3, 7AM.3
Lin, Ying-Hsuan – 6CD.2, 7CD.12
Lin, Zejian – 4AC.23
Lindberg, Jake – 7CB.8, 7CD.17, 10DU.3, 10DU.6
Lindermann, Jörg – 8LC.6, 12CB.1
Lindgren, Robert – 10CB.7, 12CB.8
Lindsay, Amber – 7IB.5
Lindsley, William – 6IB.8, 7IB.15
Ling, Meilee – 1IN.5
Linn, Rod – 7CB.2
Lintis, Laura – 7CB.3
Liou, Sihyu – 14LC.5
Lipkin, Ian – 7IB.10
Lipp, Helina – 9IM.2
Lippe, Martina – 7AP.32
Lipponen, Antti – 13AP.2
Lipsky, Eric – 12CB.6, 12CB.7
Liscinsky, David – 10CA.1
Liu, Chuan – 10HA.13
Liu, Cong – 5AM.1
Liu, Cong-Qiang – 11CA.8
Liu, Dantong – 4CA.8, 4RA.4, 7AP.28, 7AP.30, 10MG.12, 11CA.2
Liu, Daoyin – 4MD.10, 10AP.6
Liu, Di – 2CM.4, 10SA.29
Liu, Fenglin – 12LC.2
Liu, Fengshan – 8IM.6, 10IM.2, 12AP.5, 12AP.6, 13CB.5
Liu, Fobang – 11HA.5
Liu, Hexin – 2CM.5
Liu, Huanjia – 10MG.16
Liu, Hui-Ming – 7AE.9
Liu, Jia – 7LC.16
Liu, Jin-Wei – 14LC.2
Liu, Jiumeng – 1AM.1, 6CC.3, 8AM.2, 11AC.8
Liu, Jun – 1RA.1, 2CA.2, 3CM.1
Liu, June – 3MD.4
Liu, Junxin – 7BA.1
Liu, Kun-Hsing – 10LC.2
Liu, Lang – 7MG.5
Liu, Li – 2IA.1, 7AC.21
Liu, Ling – 4AC.46
Liu, Pai – 4MS.20, 7AP.34, 7AP.37, 10AP.5, 10AP.9, 14AP.1
Liu, Pengfei – 1OF.8, 9AC.4
Liu, Qianfeng – 14AP.6
Liu, Qiaoling – 13IM.8
Liu, Qingyang – 14SA.4
Liu, Quan – 2IN.8
Liu, Shang – 1AM.5, 2RA.1
Liu, Shuhan – 10MG.16
Liu, Suixin – 10SA.8
Liu, Xiaohong – 3IN.3, 4IN.12
Liu, Xiaoting – 10LC.1, 10LC.3
Liu, Xiaowei – 2CM.8
Liu, Xiaoxi – 4AC.44, 8AC.6, 11IM.3
Liu, Xiaoxing – 11LC.5
Liu, Xuejun – 4AE.1
Liu, Yan – 11LC.6
Liu, Yao – 10CB.9
Liu, Yiliang – 7MG.13, 7MG.24, 13AC.2
Liu, Ying – 3OF.4, 4AC.14, 4OF.5, 7MG.25, 11MG.2
Liu, Yingshu – 1CM.3
Liu, Yongchun – 7MG.13, 7MG.24, 13AC.2
Liu, Yueyan – 4AM.9
Liu, Zirui – 7MG.17, 14AC.4
Livingston, Virginia – 7IB.25, 14BA.5
Lizal, Frantisek – 10HA.4, 11HA.2
Lizana, Jesus – 3IA.5
Lobaskin, Vladimir – 6CD.3
Lobo, Prem – 5CA.6, 8IM.6, 10IM.2, 12AP.6, 13CB.5, 13CB.7
Lodhi, Neelesh – 3RA.3, 4AM.25
Loewe, Katharina – 6CC.4
Lohmann, Ulrike – 6CC.4
Loka, Arun – 1IA.3
Long, Marilee – 11LC.2
Long, Ying – 12LC.2
Longest, Worth – 1MD.5
Longley, Ian – 7LC.24, 11LC.3
Lopes, Daniel S. – 4RA.28
Lopez, Hender – 6CD.3
Lopez-Hilfiker, Felipe – 2AC.5, 5AC.1, 6IM.2, 7AC.7, 8AC.8, 10AC.13, 10SA.21
López-Mahía, Purificación – 4CA.9
Losno, Rémi – 11LC.8
Lou, Sijia – 7CD.21, 7TT.9
Loubet, Benjamin – 4AC.34
Loukou, Alexandra – 10CB.14
Louvaris, Evangelos – 2RA.4, 13CA.5
Lovén, Karin – 11HA.8
Lovett, Christopher – 4RA.8, 10SA.16
Low, Judy – 7LC.1
Lowe, Samuel J. – 3IN.2
Lowenthal, Douglas – 7CC.14
Lowry, Christopher – 10BA.18
Löndahl, Jakob – 1IN.5, 1MD.4, 4MD.5, 7IB.19
Lu, Chungsyng – 14LC.5
Lu, Jau-Huai – 10CB.4
Lu, Keding – 12RA.4, 13MG.1
Lu, Li – 2MS.8
Lu, Pei – 1CM.3
Lu, Peiyu – 14LC.5
Lu, Quanyang – 4AM.24
Lu, Sarah – 7AC.12
Lu, Sihua – 13MG.1
Lu, Tong – 6AM.5
Lu, Yiqun – 7MG.13, 7MG.24, 11MG.7, 13AC.2
Lu, Zhenyu – 3CM.1
Luca, Di Liberto – 7CC.10
Luca, Ferrero – 7CC.10
Lucarelli, Franco – 2RA.6, 4AC.21, 10RA.1, 10SA.1, 10SA.29, 10SA.31
Lucas, Kurt – 11HA.5
Lucci, Francesco – 4MD.8
Lucero, Gabriel – 10BA.16, 11BA.1
Luch, Andreas – 4AE.16
Lueckerath, Janine – 7TT.13
Luka, Drinovec – 14CA.1
Luke, Edward – 1RA.3
Lundberg, Joacim – 4IM.15
Lunden, Melissa M. – 6AE.7, 9LC.1
Lung, Shih-Chun – 14LC.2
Luntta, Esa – 4IM.22
Luo, Beiping – 7AC.16
Luo, Gan – 5AM.4, 5AM.8, 10RA.4
Luo, Jianfei – 10CB.17
Luo, Jie – 7LC.16
Luo, Lei – 7ES.15
Luo, Meifang – 2MS.8
Luo, Xiao-San – 6CD.9, 7CD.9

Luoma, Krista – 10SA.12, 12MG.3
Luthra, Jiva – 5CD.5
Luts, Aare – 7AM.1
Lutz, Anna – 10AC.13
Lüdecke, Anja – 1IA.6
Lv, Yang – 4AP.8
Lv, Yanshan – 4AE.1
Lyan, Bernard – 10BA.10
Lyons, Timothy – 12SA.7
Lyska, Matthias – 8CB.8
Lyu, Ming – 12AC.7
Lyu, Ritao – 7AC.18
Lyu, Xiaopu – 12SA.1
M., Akila – 10BA.25
M., Sateesh – 7MG.9, 8ES.8
Ma, Mutian – 7AC.11
Ma, Nan – 4AP.22, 14RA.2
Ma, Qiao – 12MG.2
Ma, Qingxin – 7MG.13, 13AC.2
Ma, Shexia – 4AE.1
Ma, Shuhua – 13CB.3
Ma, Tao – 7MG.11
Ma, Wei – 4AM.11
Ma, Xincheng – 2IN.8
Ma, Yan – 8IM.8
Ma, Yongliang – 7MG.11
Ma, Zizhen – 9WA.4
Maahn, Maximilian – 1IN.1
Maasikmets, Marek – 7CB.6, 10CB.25
Macdonald, Anne Marie – 7ES.16
Macdonald, Annie Marie – 6CC.8
Mace, Gerald – 1IN.4
Macedo, Fernanda de M. – 4RA.28
Machado, Cristine – 1AC.1
Machado, Luiz – 12AP.2
MacKinnon, Michael – 12MG.6
Mackowski, Dan – 11BA.6
Madelin, Malika – 7LC.20
Madero, Jose – 1DU.5
Madsen, Anne Mette – 13BA.1
Maeng, Hyunok – 7IM.25, 7IM.26
Maestre, Juan Pedro – 3IA.3, 10BA.4, 12BA.6
Maggs-Kölling, Gillian – 6CC.7
Magnusson, Martin H – 10IM.1
Magoon, Gregory – 8IM.4, 10CA.1
Mahajan, Sachit – 14LC.2
Mahamuni, Gaurav – 10LC.6
Mahata, Khadak – 3RA.2, 4CA.19, 8ES.6
Mahdavipour, Omid – 10IM.16
Maheskumar, R.S. – 6CC.6, 7CC.2
Mahowald, Natalie – 12AC.3
Mai, Huajun – 4IM.10, 7IM.15, 11IM.2
Maier, Andrew – 11BA.4
Maierhofer, Paul – 13AP.1
Mainelis, Gediminas – 2IA.5, 4AE.4, 7BA.2, 7BA.11, 7LC.9, 9BA.3, 10BA.2, 10BA.14, 10BA.20, 10HA.6
Maines, Taronna – 6IB.6
Maisser, Anne – 9AP.7, 10LC.5
Majd, Ehsan – 6AE.9
Majdi, Marwa – 14AC.2
Majestic, Brian – 4AC.35, 7AC.9, 7AC.20, 7CB.17, 10SA.19
Majumder, Ahmad – 7AE.1
Makar, Paul – 9AM.3
Makeš, Otakar – 10SA.15
Makhosous, Sepehr – 4AE.5
Malandrino, Mery – 4RA.30
Malashock, Daniel – 14HA.4
Maldonado, Luis – 1IN.7
Malet, Jeanne – 10IM.6
Malik, Husna – 6CD.1
Malila, Jussi – 6AC.6
Malings, Carl – 7LC.13, 8LC.1, 10LC.13, 11LC.8, 12LC.4, 14LC.6
Mall, Rajesh Kumar – 3RA.5
Mallis, Larry – 10TO.9
Malm, William – 7AC.39, 12RA.1
Malmborg, Vilhelm B. – 7CD.11, 10CB.7, 12CB.8
Maltz, Mia – 12SA.7
Mamakos, Athanasios – 2IM.8, 5RA.3
Mamane, Aneal – 7BA.19
Mamet, Victorien – 9AP.4
Mamischev, Alexander – 4AE.5
Mammarella, Ivan – 4AC.22, 10AC.2
Mandariya, Anil Kumar – 4AC.41
Manders-Groot, Astrid – 4AM.23
Manibusan, Sydonia – 10BA.14
Manninen, Antti – 8ES.5
Manninen, Hanna – 7AP.24, 10AC.2
Manousakas, Manos – 4AE.9, 6AE.8, 10SA.16
Mantecca, Paride – 13TO.5
Manteigas, Vitor – 3IA.5
Manuel A., Leiva G. – 7CD.1
Manwatkar, Prashik – 7CM.5
Manz, Andreas – 8CB.8
Manzoor, Farkhanda – 6CD.1
Maoa, Jannatul – 4AC.30
Marabella, Ian – 7BA.22
Marais, Eloise – 4AC.7, 5AC.1
Marchand, Nicolas – 5RA.5, 7AC.40
Marchand, Roger – 1IN.4
Marcotte, Aurelie – 8ES.3
Marecek, Petr – 7TT.10
Marek, Rachel – 14HA.2
Margham, Jennifer – 11HA.7
Maria, Korolev – 4ED.1
Mariam – 4AP.24, 4IM.25, 4RA.9
Maricq, Matti – 8CB.9, 8LC.4
Marien, Yann – 8MG.2
Marin, Cristina – 4RA.25, 10SA.22
Marin, Jennifer – 4CA.34, 11MG.6
Mariner, Derek – 10HA.13
Marinoni, Angela – 9CA.6, 10RA.15, 12AP.8, 13AC.8
Marks, Marguerite Colasurdo – 4AM.32
Marmureanu, Luminita – 4RA.25, 10SA.22
Maro, Denis – 4RA.1, 4RA.20, 5RA.1
Marozas, Vitas – 10SA.26
Marques, Marcia T. A. – 4RA.28
Marr, Linsey – 6AC.1, 6IB.7, 7IB.1
Marsden, Nicholas – 4IN.9
Marsh, Aleksandra – 9AC.6
Marshall, Julian – 4IA.7, 6AE.7, 12CB.5
Marsli, Ibtissam – 4RA.18, 7CC.7
Martell, Riley – 8AC.2
Marten, Ruby – 4AC.20, 8AC.4, 10AC.6, 10AC.10
Martens, Jonathan – 5IM.7
Martikainen, Sampsa – 7CB.11, 8CB.4
Martin, Andrew R. – 1MD.3, 4MD.6
Martin, Florian – 6AM.4
Martin, Randall V. – 12MG.2
Martin, Santiago – 2MS.7, 7MS.5
Martin, Scot T. – 1OF.8, 4AP.17, 4OF.3, 8AM.2, 9AC.4, 10RA.11, 12AC.2, 12RA.6

Martinet, Simon – 10CB.9
Martinez, Leticia – 1IN.7
Martinez, Raul – 8AC.2
Martins, Vânia – 2IA.7, 3IA.5, 4AE.9, 4AE.15, 6AE.8
Marto, Joseph P. – 5AM.4, 10RA.4, 11AC.1, 11AC.4
Martucci, Giovanni – 11AP.6
Martuzevicius, Dainius – 1CM.4, 7IA.5
Marty, Frédéric – 7LC.3
Mascelloni, Massimiliano – 8AE.6
Masih, Amit – 6AE.1, 10MG.13
Masiol, Mauro – 7LC.18, 10SA.13, 11LC.1
Masood, Saiyada – 8MG.5
Masoud, Catherine – 2AC.1
Massabò, Dario – 10SA.31, 12BA.8, 13CB.5, 14CA.3
Massling, Andreas – 2AP.6
Massoli, Paola – 1RA.1, 8AC.1, 8AE.8
Mateus, Lady – 4CA.34, 11MG.6
Mathieu, Anne – 9AP.1
Matida, Edgar A. – 1MD.7
Matson, Pothier – 10CB.10
Matsoukas, Christos – 8ES.9
Matsuda, Kazuhide – 4OF.4
Matsui, Hitoshi – 1AM.3
Matsumi, Yutaka – 4OF.4, 12LC.3
Matsumoto, Kazuhiko – 1RA.6
Matthew, Ratcliff – 10CB.10
Matthew, Thornton – 10CB.10
Matton, Michel – 9AP.4
Maughan, Justin – 4AP.9, 12AP.5
Mauldin, Roy Lee III – 9AM.8, 13AC.6
Maunula, Teuvo – 7CB.11
Maximoff, Sergey N. – 4AP.7
May, Andrew – 2CA.8, 4AM.24, 10CA.4, 10CA.10
May, Nathaniel – 2RA.5
Mayer, Paula – 6CD.6
Mayhall, Elaine – 14BA.2
Mayhew, Alfie – 9AC.6
Mayol-Bracero, Olga L. – 11LC.8
Mayramhof, Gregor – 7IM.29
Mayya, Y.S. – 4AM.3, 4AM.13, 4AP.13, 5CM.7, 6AM.2, 7AM.9, 9AM.6, 9AP.2
Mazaheri, Mandana – 12MG.3
Mazon, Stephany – 2IM.2, 10AC.2, 11MG.7
Mazzola, Mauro – 7AP.29, 8ES.9
Mazzoleni, Claudio – 1RA.4, 1RA.5, 2RA.2, 5CA.8, 10RA.15
Mazzoleni, Lynn – 1RA.5, 2RA.2, 4AC.39, 4IM.13
Mädler, Lutz – 2MS.5, 2MS.6
Mäkelä, Antti – 5AP.6
Mäkelä, Jyrki M. – 7MS.12, 13IM.3
Mätzing, Hartmut – 10CB.14
Mbengue, Saliou – 4CA.24
McAdam, Kevin – 10HA.13
McArthur, Tim – 7LC.1
McAughey, John – 10HA.13, 10HA.14, 11HA.7
McCaffery, Cavan – 8CB.5
McClellan, Roger – 14HA.1
McCluskey, Christina – 1IN.4, 2IN.2
McComiskey, Allison – 1IN.1
McConnell, Laura – 3CM.3
McCormack, Meredith – 6AE.9
McCormick, Jordan – 8AC.9
McCubbin, Ian – 7CC.14
McDonald, Jacob – 10TO.9
McElroy, Michael – 5AC.8
McFarquhar, Greg – 1IN.4, 2IN.2
McFiggans, Gordon – 2AP.4, 7AC.27, 13MG.4
McGraw, Robert – 1AM.7, 2AP.7
McGuffin, Dana – 1AM.8
McKain, Kathryn – 4CA.26
McKay, Robert Michael – 4IN.6
McKeen, Stuart – 9AM.4
McKinney, Karena – 9AC.4, 12RA.6
McLinden, Chris – 9AM.3
McMeeking, Gavin – 2CA.8, 2IN.8, 4CA.21, 4IN.20, 7IM.27, 10CA.4, 10CA.10
McMurry, Peter H. – 7AP.33
McNeill, Kristopher – 1IN.6
McNeill, V. Faye – 11AC.7
McQueen, Jeffery – 7AC.12
Mead, Kenneth R. – 6IB.8
Mead, M.I. – 7AE.3
Medeiros, Adan – 12RA.6
Medstrand, Patrik – 7IB.19
Mehaffy, John – 8LC.3, 11LC.2
Mehra, Archit – 1OF.7, 4OF.2, 7AC.14, 9MG.8
Mehri, Rym – 1MD.7
Mei, Fan – 1AM.1, 1IN.1, 6CC.3, 9LC.2, 11AC.8
Mei, Junyu – 11CA.3, 10CA.7
Meidan, Daphne – 4OF.6, 12AC.8
Meijuan, Li – 10SA.3
Meinander, Outi – 4IN.19
Meirhofer, Florian – 2MS.6
Meišutovič-Akhtarjeva, Marija – 7IA.5
Melas, Anastasios D. – 12AP.7
Melischnig, Alexander – 13IM.5
Mendes Santos, Luis – 8MG.2
Mendez, Juan Felipe – 13MG.8
Mendoza, Albert – 9LC.2
Meng, Meng – 4IA.14
Mennucci, Carlo – 13CB.5
Menon, Ratish – 4RA.23
Mensah, Amewu – 4OF.11, 5CA.3, 13CB.5
Mentel, Thomas F. – 1AC.7, 3RA.6, 4AC.14, 4AC.15, 4AC.32
Mentler, Bernhard – 4AC.20
Mercier, Xavier – 11CB.3
Merkel, Maik – 1IA.6
Mersmann, Ryan – 7IM.27
Mesbah, Boualem – 5RA.5
Mesceriakovas, Arunas – 5CM.3
Messier, Kyle – 4AE.7, 6AE.7, 9LC.1, 10IM.8
Messing, Maria E – 5MS.3
Metcalf, Andrew – 2CA.3, 4IN.20
Meyer, Jörg – 13TO.8
Meyer, Marit – 1IA.5
Meyer, Miriah – 10LC.8
Meyer-Plath, Asmus – 7CD.6, 10WA.3
Mezhericher, Maksim – 1DU.6
Meziane, Rajae – 4RA.27
Miake-Lye, Richard – 8IM.4, 9IM.6, 10CA.1
Michelsen, Hope – 11CB.6
Mickelsen, Leroy – 7IB.22
Middey, Anirban – 4CA.22, 7CM.5
Middlebrook, Ann M. – 5AC.1, 13CA.1
Miersch, Toni – 7CB.1

Miettinen, Pasi – 14RA.4
Migliorini, Francesca – 7IA.10
Mihalopoulos, N. – 7MG.15
Mihalopoulos, Nikolaos – 4CA.30, 7CD.19, 11HA.3
Miinalainen, Tuuli – 7AM.5
Mike, Holland – 4AM.17
Mikkonen, Santtu – 4AC.13, 7AC.15, 8AM.5, 13AP.2, 14RA.3, 14RA.4
Mikuta, Povilas – 2IA.1
Mikuška, Pavel – 10SA.28
Milan, Cassandra – 8AC.9, 11IM.1
Milani, Alissia – 4RA.14
Milbrandt, Jason – 9AM.3
Miles, Rachael E.H. – 6MS.6
Militello-Hourigan, Ryan – 4IA.12
Miljevic, Branka – 4AC.12
Miller, Brian – 7IB.5
Miller, David – 10IM.8
Miller, Keith – 7AC.9
Miller, Raymond J. – 4RA.22
Miller, Ron – 1IN.3
Miller, Shelly – 1IA.4, 4IA.12
Miller-Lionberg, Dan – 8LC.3, 11LC.2
Millet, Dylan – 4RA.14
Mills, Michael – 1AM.5
Milner, Patrick – 12AC.7
Milton, Donald – 6IB.4
Min, Justin – 10CA.11
Ming, Jing – 2AP.1, 4AP.21, 12AP.2
Minor, Hilary – 4CA.32
Minutolo, Patrizia – 10CB.16
Minyard, Morgan – 13AP.6
Miranda, Javier – 1IN.7, 4AC.21, 4AP.29
Miranda, Regina Maura – 8MG.2
Mircea, Mihaela – 4AM.23
Miroslav, Bitter – 4AP.12
Misawa, Kentaro – 6TT.6
Mishra, Harsh Raj – 7ES.12
Mishra, Sumit Kumar – 4AM.25
Mishra, Suneeti – 10MG.17, 11AC.3
Misik, Ondrej – 10HA.4, 11HA.2
Miskell, Georgia – 7LC.21
Misra, Amit – 2RA.7
Misztal, Pawel – 1IA.7
Mitsui, Tomoya – 10CB.20
Miyakawa, Takuma – 1RA.6
Miyasita, Hirotaka – 10CB.23, 10CB.24
Miyazaki, Yuuzo – 4OF.4
Mizuno, Yusuke – 7IM.31
Moallemi, Alireza – 2CA.7, 5CA.6, 10IM.2, 11CB.4
Mobley, Paul – 7IB.22
Mochizuki, Tomoki – 4OF.4
Mock, Caroline – 6CD.4
Mocnik, Grisa – 7CC.10, 14CA.1
Modak, Prasad – 3ED.6
Modest, Michael – 10CB.15
Modesto-López, Luis – 9AP.3
Modini, Robin – 6CC.9, 12AP.8, 13CA.6
Moffet, Ryan – 1IN.8, 1RA.8, 9AC.2
Moffett, Bruce – 4IN.6
Moghaddam-Taaheri, Parisa – 7IB.14
Mohamed, Amer – 4RA.3
Mohammad, Zahra – 12BA.6
Mohammaddezhshibi, Fatemeh – 7LC.14
Mohammadi, Mohammad Moein – 2MS.3
Mohammadi Nafchi, Ali – 4IN.20
Mohammadpour, Raziye – 13TO.1
Mohan, M. – 11AC.3
Mohiuddin, Obaidullah – 7LC.14
Mohr, Claudia – 2AC.5, 4OF.8, 7AC.19, 9AC.7, 10AC.8, 10AC.13, 13AC.8
Moisseev, Dmitri – 8ES.5
Molina, Carolona – 7CD.1
Molina, Luisa – 8MG.1
Molina, Michelle – 10HA.20
Molteni, Ugo – 7AC.40
Momenimovahed, Ali – 13CB.4
Monaghan, Elizabeth – 4MD.11
Mondal, Sumona – 14LC.1
Monier, Marie – 9AP.1
Monod, Anne – 6CC.7
Monteiro dos Santos, Djacinto – 7MG.4
Montoya, Lupita – 4CM.1, 2IA.2, 2IA.3, 10HA.3, 13MG.7
Montoya-Aguilera, Julia – 4AC.28, 5AC.5
Moon, Sunhee – 4OF.7
Moore, C. Paul – 1MD.3
Moore, Kathryn – 1IN.4, 2IN.2
Moore, Katie – 10IM.8
Moore, Richard – 1RA.1, 7CC.13, 13CB.8
Moorthy, Krishna K – 7ES.6, 7ES.8
Moosmuller, Hans – 4AP.27, 7IM.2, 8ES.7, 10DU.4, 11AP.1
Morais, Fernando – 7ES.3
Morales Betancourt, Ricardo – 7LC.20, 8AE.2, 13MG.8
Morales-Medina, Maité – 11LC.8
Morán, José – 12AP.6
Moran, Michael – 7ES.16, 9AM.3
Moran-Zuloaga, Daniel – 2AP.1, 4AP.21, 12AP.2
Moravec, Pavel – 4MS.10, 10SA.28
Morawska, Lidia – 7AE.8, 10LC.1, 10LC.3, 10MG.9, 12MG.3, 14RA.1
Moreno, Fabian – 7AE.5
Moreno, Francisco – 10IM.6
Moretti, Ayla – 8CB.1, 10CB.1
Morgan, Brian – 7LC.9
Morgan, Christopher – 8AE.1
Morgan, William – 4RA.4
Morino, Yu – 4OF.4, 8AM.4
Morissette, Mathieu – 10HA.16
Moroni, Bea – 12BA.5
Morozova, Vera – 7IB.13
Morrical, Bradley – 3MD.1
Morrison, Douglas – 10BA.7
Morrison, Glenn – 1IA.3
Morrow, Carl – 8IB.7
Morton, Daniel – 4AM.17
Morton, Michael – 7LC.1
Mosbach, Sebastian – 11CB.5
Moschos, Vaios – 13SA.1
Moss, Joshua – 10AC.16
Moss, Owen – 4MD.4
Mostafa, Mostafa – 4IA.9, 4RA.3
Moteki, Nobuhiro – 3IN.4
Motos, Ghislain – 6CC.9
Motzkus, Charles – 4IA.11, 7LC.3
Mousavi, Amirhosein – 4CA.18, 7MG.18, 8MG.3, 10SA.18, 14SA.5
Moustafa, Mona – 4RA.3
Mozgeris, Gintautas – 10SA.26
Möhler, Ottmar – 2IN.7, 4IN.2, 4IN.9, 4IN.13

Mölter, Leander – 10LC.18
Mölter-Siemens, Wolfgang – 3IA.2
Mueller, Dominik – 3MD.3
Mueller, Jochen – 7AE.8
Mueller, Markus – 6IM.7, 7IM.29, 8AC.5
Mui, Wilton – 7IM.15
Mukhtar, Rita – 5RA.6
Mukut, Khaled Mosharraf – 10CB.15
Mulholland, George – 4ED.2, 7AP.26, 12AP.4
Mulholland, James – 5CD.1
Mullinger, Neil – 8MG.9, 10MG.12
Munoz, Anthony – 10SA.4, 4CA.29, 14SA.3
Munthum, Sukanya – 14BA.1
Murakami, Toshiki – 4CM.16
Murari, Vishnu – 3RA.5
Murashima, Yoshiko – 4IM.32, 7IM.6
Murphy, Benjamin – 4CA.31, 7AM.19
Murphy, Brynn – 4MD.6
Murphy, Daniel – 1AM.5, 2IN.4, 8ES.2, 11CA.1, 13BA.8
Murphy, Jennifer G. – 4AC.31
Murphy, Peter – 8AE.1
Murphy, Shane – 9CA.7
Murray, Benjamin – 2IN.7
Muscat, Joshua – 7CD.8
Mushi, Roland – 6CC.7
Musselman, Evan – 5MS.8
Mutschlechner, Paul – 6IM.6
Mutzel, Anke – 14SA.1
Muvandimwe, Didier – 7CB.9
Myerburg, Mike – 6IB.7
Myers, Hunter – 7AC.4
Myers, Jonathan – 7AC.36
Myers, Matthew R. – 10HA.10
Müller, Markus – 1RA.1
Müller, Thomas – 4AP.22, 4CA.16, 14RA.2
Myllys, Nanna – 5AP.7
Myungjoon, Kim – 7CM.8
Na, Li – 10HA.8
Naddafi, Kazem – 14SA.5
Nadykto, Alexey – 4AC.25, 5AM.4, 10AC.14
Nadzir, M.S.M. – 7AE.3
Nagato, Edward – 7TT.4
Nagler, Ina – 9IM.4
Nah, Theodora – 7AC.23, 13SA.8
Nahin, Md Minal – 9IM.7
Nakano, Takashi – 10CB.20
Nakao, Shunsuke – 7IM.19, 7LC.23
Nakashima, Yoshihiro – 4OF.4
Nakayama, Tomoki – 4OF.4, 12LC.3
Nakpan, Worrawit – 7IB.3
Nalca, Aysegul – 7IB.20, 7IB.21, 7IB.25, 7IB.26, 14BA.5
Namwoonde, Andreas – 6CC.7
Namy, Patrick – 9AP.4
Nandy, Lucy – 5AP.8
Napolitano, Denise – 6CC.7, 8ES.3
Nasir, Zaheer Ahmad – 6AE.2, 6CD.1, 7AE.6, 7MG.6, 13BA.7
Nasko, Dan – 6IB.4
Nasr, Babak – 13AP.6
Nathoo, Hafeez – 4MD.6
Nault, Benjamin A. – 5AC.1, 6IM.9, 7MG.8, 9MG.1, 11MG.1, 12AC.1
Nava, Silvia – 2RA.6, 4AC.21, 10RA.1, 10SA.29, 10SA.31
Navas-Guzmán, Francisco – 7TT.12, 11AP.6
Nayebare, Shedrack – 14HA.4
Nayeem, Abdullah – 7AE.1
Nazarenko, Kirill – 4AC.25, 5AM.4, 10AC.14
Nefedov, Alexei – 2IN.3
Nega, Tsegaye – 3ED.3
Negrón-Marty, Arnaldo – 10BA.6
Nelson, Noel – 6IB.5
Nemitz, Eiko – 4AM.17, 8MG.9, 10MG.12, 10RA.9
Nenes, Athanasios – 5AC.2, 5AM.1, 5CD.1, 7AC.23, 7CC.13, 7CD.19, 10BA.6, 11HA.3
Neofytou, Panagiotis – 4AP.11
Nepal, Arjun – 1DU.2, 4MS.5
Netkueakul, Woranan – 10HA.9
Neuhoff, Judith – 10WA.3
Neuman, J. Andrew – 5AC.1
Newburn, Matt – 9LC.2
Ng, Nga Lee – 1AC.6, 4AC.9, 4AC.26, 4AC.33, 4CA.20, 5AP.5, 7AC.23, 7CD.18, 7IM.23, 8AC.2, 11IM.6, 12AC.6, 12RA.8, 13SA.8
Ngo, Linhdan – 4CA.28
Ngoh, Jie Rui – 6AE.5
Nguyen, Charlene – 4AE.8
Nguyen Dinh, Thanh – 4CM.3
Nguyen Van, Qui – 4CM.3
Ni, Fang – 10SA.3
Ni, Haiyan – 7AC.40, 7CB.7, 10SA.8
Ni, Kun – 10DU.5
Nichman, Leonid – 3IN.6, 7AP.40
Nichols, Caz – 13MG.5
Nicklasson, Hanna – 4MD.5
Nicolás, Jose – 10RA.1
Nie, Wei – 10AC.7
Nie, Yao – 3MS.3, 6MS.4
Nielsen, Jeppe Lund – 13BA.1
Nielsen, Jörn – 11HA.8
Niemelä, Ville – 4IM.22
Niemi, Jarkko – 4RA.24, 10SA.27, 10SA.30, 12MG.3, 13SA.4
Nieminen, Tuomo – 13AP.2, 14RA.3, 14RA.4
Niessner, Reinhard – 11CB.7
Nieto-Caballero, Marina – 7BA.16
Nihill, Kevin – 4AC.19, 11AC.6
Nikka, Markus – 7MS.12
Niles, Sydney – 9AC.2
Nilsson, Patrik – 1IA.2, 4IA.13
Ning, Zhi – 7CD.10, 12LC.5
Ninneman, Matthew – 7AC.12, 11AC.4
Nirmalkar, Jayant – 10RA.12
Nishida, Hideyuki – 10CB.23, 10CB.24
Nishida, Kristine – 12IM.5
Nishida, Robert – 10LC.16, 11LC.4, 12IM.7, 13IM.6
Nishiguchi, Kohei – 7IM.31
Nishihara, Keita – 4MS.8
Nishita, Chiharu – 13TO.2
Nitschke, Kim – 1RA.7
Niu, Hongjiang – 10DU.5
Nizkorodov, Sergey – 4AC.27, 4AC.28, 4OF.8, 5AC.5, 7AC.19, 9AC.8, 9CA.5
Noble, Jennifer – 4CA.28, 8CB.8
Noble, Michael – 10SA.4, 4CA.29
Noble, Stephen – 7CC.1, 7CC.6
Noblet, Camille – 7CB.5
Noboru, Hieda – 10CB.13
Nobumitsu, Sakai – 4CA.12

Noga, Michelle L. – 1MD.3
Nor Azura, Sulong – 4CA.12
Nordander, Catarina – 11HA.8
Nordlund, Markus – 6AM.3
Nordsieck, Hermann – 12CB.1
Norgren, Matthew – 1IN.1
Norris, Christina – 11LC.7
Northup, Heather – 7IB.5
Noti, John – 6IB.8
Nousiainen, Pekka – 4RA.24
Novelli, Anna – 4AC.15
Novosselov, Igor – 4AE.5, 7LC.10, 10LC.6, 12SA.4
Nowak, Andreas – 4CA.16
Nowak, Bartosz – 1CM.2
Nowak, John – 5AC.1, 8AC.1
Nozomi, Saito – 4CA.12
Nøjgaard, Jacob Klensø – 2IA.6
Ntziachristos, Leonidas – 2IM.8, 8CB.7
Nunes, Teresa – 4IA.3, 4IA.5, 7IA.4, 10SA.6
Nuns, Nicholas – 4CA.28
Nwankwo, Amanda – 7AC.4
O' Malley, Katherine – 6IB.9
O'Brien, Rachel – 5IM.7, 8AC.1, 9AC.2
O'Brien, Theresa – 4CA.32
O'Connor, Ewan – 7TT.3, 8ES.5
O'Dowd, Colin – 3AC.4, 6CC.5, 14DU.2
O'Meara, Simon – 5AP.1, 9AC.6
O'neil, Carrie – 8IB.5
O'Neill, Norman – 10RA.10
O'Shaughnessy, Patrick – 1MD.1
Obaidullah, Madina – 7LC.14
Obbard, Jeffrey – 12BA.1
Oberreit, Derek – 4IM.17, 9IM.3
Ochsenkuehn-Petropoulou, Maria – 10IM.6
Ock, Yoohyun – 2IM.7
Ockerman, Byron – 7LC.10
Odame-Ankrah, Charles – 12AC.5
Oduber, Fernanda – 4IA.3, 7IA.4, 10SA.6
Oduro, Abraham – 7CB.9
Oeder, Sebastian – 5CD.4, 6CD.7
Ogawa, Takashi – 10CB.20
Ogorodnikov, Boris – 4CM.10
Ogunronbi, Kehinde – 7AP.32, 7AP.36
Oh, Hyeon-Ju – 4AE.4
Oh, Jun – 4AC.30
Ohata, Sho – 3IN.4
Ojiodu, Chukwebe – 12BA.3
Okamoto, Hajime – 1IN.2
Oktem, Berk – 10HA.10
Okuchi, Eisuke – 3MS.4
Okuda, Tomoaki – 4AP.1, 4AP.2, 7IM.4, 7IM.34, 10HA.1, 13TO.2
Okuyama, Kikuo – 2MS.4, 4MS.14
Oldham, Michael – 4MD.4, 9BA.7
Olenius, Tinja – 3IN.2, 5AP.2, 9AP.5
Olfert, Jason S. – 2CA.7, 5CA.6, 7AP.28, 7CB.12, 7CB.14, 9LC.3, 10IM.2, 11CB.4, 13IM.6
Olin, Miska – 4RA.24, 5RA.4, 13SA.4
Oliva, Maddalena – 12BA.8
Olivares, Gustavo – 6TT.7, 7LC.24, 11LC.3
Olivares, Sara Erika – 7MG.12
Oliveira, Ana Rita – 4IA.5
Oliveira, Rafael L. – 12RA.6
Ollier, Katie – 9WA.5
Ollison, Will – 12LC.6
Olson, Bernard – 4AM.15, 7BA.22
Olson, Michael – 14SA.4
Olson, Nicole – 1AC.1, 1AC.4, 4AC.5, 7AP.27, 9AC.5
Olumayede, Emmanuel – 12BA.3
Omelekhina, Yuliya – 1IA.2, 4IA.13
Omori, Youichi – 7CM.4
Onasch, Timothy – 3IN.6, 3RA.6, 4CA.2, 5CA.7, 7AP.40, 7IM.14, 9AC.5, 9IM.6, 13CA.2
Ondráčková, Lucie – 10SA.28
Ondráček, Jakub – 4AC.17, 10SA.28
Onishi, Toshinori – 13TO.2
Oomens, Jos – 5IM.7
Orasche, Jürgen – 6CD.7, 7CB.1, 13CB.5
Orii, Takaaki – 4AP.4
Orlando, John – 1AC.8, 1OF.2
Oroji, Balal – 4RA.6
Orr-Ewing, Andrew J. – 7AC.17
Orsini, Douglas – 9CA.6, 10RA.15, 12AP.8
Ortega, Amber – 4OF.3
Ortega Colomer, Ismael Kenneth – 11CB.3
Ortiz-Montalvo, Diana – 4AP.19
Orzan, Manuel – 9IM.4
Osthoff, Hans – 12AC.5
Oßwald, Patrick – 13CB.7
Otani, Yoshio – 4AP.4, 4CM.16, 7CM.4, 7IM.32, 7IM.33, 7MS.7, 14RA.6
Otero-Fernandez, Mara – 8IB.8
Otto, Tobias – 6IM.7
Ou, Qisheng – 1CM.7, 1CM.8, 2CM.6, 2IM.5, 4CM.4
Ouaissi, Mehdi – 4MD.1
Ouf, François-Xavier – 7CB.3
Ouyang, Bin – 7AC.14
Ovadnevaite, Jurgita – 3AC.4, 6CC.5, 14DU.2
Oxford, Christopher – 7AC.36, 10AP.7, 10CA.3, 11CA.4, 12IM.1
Oyola, Pedro – 9WA.6
Ozawa, Ryo – 7IM.33
Ozon, Matthew – 7AM.12, 8AM.7, 14RA.3
P.M., Shamjad – 2CA.1
P.V.S., Raju – 7MG.9
Paasonen, Pauli – 1AM.4, 11MG.7
Paatero, Jussi – 5AP.6
Pabla, Balbir – 9AM.3
Pace, Rashad – 9AC.2
Pachon, Jorge – 7AE.5
Packingham, Ann – 7BA.3
Packingham, Zachary – 7BA.3
Padhi, Annada – 12CB.4
Padoan, Elio – 4RA.30
Paerl, Ryan – 2IN.1
Page, Andrew – 7BA.3
Pagels, Joakim – 1IA.2, 2IA.6, 4IA.13, 7CD.11, 10CB.7, 12CB.8
Paglione, Marco – 4AC.39, 9CA.6
Pagonis, Demetrios – 11IM.3
Paine, Robert – 13TO.1
Pajunoja, Aki – 4OF.3, 6IM.9, 7AC.19, 9AC.7
Pakarinen, Olli – 4IN.18
Pal, Ajay – 4MS.4
Palm, Brett – 4OF.3, 5AC.1, 11IM.3
Pan, Maohua – 4ED.8, 7BA.19, 7BA.21, 7BA.25
Pan, Yong-Le – 5IM.3, 6AC.5, 7BA.4, 10BA.16, 11AP.4, 11AP.8, 11BA.1

Pan, Yuepeng – 14AC.4
Pancrati, Ovidiu – 9LC.3
Panday, Arnico – 3RA.2, 4CA.19, 8ES.6
Pande, Pritha – 5CD.7
Pandey, Alok – 7MG.23
Pandey, Apoorva – 3OF.2, 4CA.25, 7AP.38, 9CA.2, 10CA.5, 10CA.12, 10CA.15
Pandey, S.K. – 7ES.17
Pandis, Spyros – 2RA.4, 4AM.11, 4AM.27, 6TT.9, 7AM.4, 8AC.7, 10AC.5, 13CA.5
Pandithurai, G. – 10SA.24
Pangui, Edouard – 4AC.36
Pani, Shantanu – 4CA.36
Pani, Shantanu Kumar – 3AC.5
Panicker, A.S. – 4CA.13, 13CA.8
Pantelić, Ana – 4AM.6
Pao, Chih-Ming – 9LC.4
Papapostolou, Vasileios – 8LC.2, 12LC.8
Paprotny, Igor – 10IM.16
Parajuli, Prashant – 4IM.5
Paramonov, Mikhail – 4IN.22
Paraskevopoulou, Despina – 4CA.30, 7CD.19
Pardo, Michal – 7CD.16, 10TO.7, 13TO.4
Park, Dae Hoon – 5MS.6
Park, Duckshin – 7IA.2
Park, Gyutae – 4AC.30, 4OF.7
Park, Jong Sung – 4AC.30, 7AC.29, 9MG.3
Park, Kihong – 7IM.25, 7IM.26, 10TO.4, 11MG.5
Park, Mincheol – 4MS.21
Park, Minhan – 10TO.4
Park, Minsu – 7AC.29, 9MG.3
Park, Sei Jin – 4DU.8
Park, Seung Myung – 4AC.30
Park, Su-Bin – 10WA.5, 10WA.6
Park, Sun Gu – 10TO.4
Park, Sung Jae – 5MS.6
Park, Taehyun – 4AC.30, 4OF.7, 6IM.9
Park, Taejune – 5CM.2
Park, Yensil – 7AP.36, 9AP.6
Park, Yong-Hee – 7LC.19, 8LC.5, 10RA.3, 10RA.13
Parker, Simon – 11BA.3
Parkhurst, Luke – 4RA.22
Parodi, Franco – 12BA.8
Parvez, Fatema – 9AM.1, 10LC.13
Pasha, Mohammad J. – 4CA.1
Passananti, Monica – 5AP.7
Passig, Johannes – 6CD.7, 6IM.1, 7CB.1
Pastor, Carlos – 10RA.1
Patel, Anil – 5CD.8
Patel, Hamesh – 7LC.21
Patel, Kanan – 2AC.1, 8MG.6, 11MG.8
Patel, Sameer – 4IA.8, 5IM.6, 7CD.4, 8AE.3, 9CA.2
Pathak, Ravi Kant – 7ES.12
Patil, Ashish – 7CM.5
Patoulias, David – 4AM.11
Patrick, Michael – 10HA.9
Patrone, Julia – 7BA.26
Patten, Kelley – 6CD.9, 7CD.9
Patterson, Benjamin – 8IB.7
Patterson, Regan – 13MG.6
Pattison, Robert – 3OF.2, 10CA.3
Patton, Kristin – 7IB.5
Paul, Debajyoti – 13SA.2
Paul, Kwon – 4MS.12
Paulson, Suzanne E. – 11AC.2, 11HA.4
Paur, Hanns Rudolf – 6CD.7, 10CB.14
Pauraite, Julija – 9CA.6, 10SA.26
Pavarajarn, Varong – 14BA.1
Pavilonis, Brian – 10BA.2
Pavlovic, Radenko – 9AM.3
Pavuluri, Chandra Mouli – 11CA.8
Pay, Maria Teresa – 4AM.23
Payne, Corey – 4ED.1
Payne, Simon – 4CM.7
Pedersen, Peter – 10IM.6
Pedersen, Thomas – 10IM.6
Pei, Chenxing – 4CM.4
Peischi, Jeff – 11MG.1
Pekour, Mikhail – 9LC.2, 13CA.2
Pellerin, Geoffrey – 4RA.1, 4RA.20
Peltola, Maija – 7AP.24
Pendyala, Swetha – 10MG.15
Peng, Weihang – 7AC.34, 7AC.38, 8CB.5
Peng, Wen-Chih – 14LC.5
Peng, Zhe – 1OF.2, 4AC.7, 4OF.1
Peng, Zhong-Ren – 4RA.10
Peppers, Joshua – 12CB.2
Peralta, Oscar – 9MG.7, 10MG.18
Percival, Carl – 9MG.8
Pereira, Gabriel – 9AM.4
Pereira, Jayder – 3ED.5
Pereira, Kelly – 9AC.6
Pereira, Luiz – 8LC.9
Perelshtein, Ilana – 13TO.5
Perez, Daniel – 6IB.9
Perez-Peña, Maria Paula – 13MG.8
Perlwitz, Jan – 1IN.3
Pernigotti, Denise – 12SA.2
Perraudin, Emilie – 10SA.1, 10SA.5
Perumal, Vivekanandan – 13TO.3
Pervez, Shams – 4CA.13, 9CA.2
Pervez, Yasmeen F. – 4CA.13
Peräkylä, Otso – 2AC.2, 2AC.7, 4AC.22, 4AC.37, 6IM.2, 10AC.8, 13AC.8
Pesch, Markus – 4IM.31, 7LC.8
Peters, Thomas – 11LC.5
Petersen, Erik – 7LC.8
Peterson, Peter – 9AC.2
Petit, Jean-Eudes – 4CA.8, 10SA.5, 13SA.7
Petitprez, Denis – 4AC.34, 11AP.7
Petrakakis, Elena – 9IM.4
Petri-Fink, Alke – 3MD.3
Petroselli, Chiara – 12BA.5
Petrović, Srđan – 4AM.6
Petters, Markus – 2IN.1, 3OF.6, 6CC.3, 7IM.9, 13CA.3
Petters, Sarah Suda – 3OF.6, 7AC.35, 7IM.9
Pettersson, Jan B. C. – 3IN.2, 7ES.12
Pettinen, Rasmus – 7CB.11, 8CB.4
Petzold, Andreas – 3RA.6
Petäjä, Tuukka – 2AC.6, 2AC.7, 2IM.2, 4AC.22, 5AP.6, 7MG.13, 7MG.24, 8ES.5, 8IM.8, 10AC.2, 10AC.7, 10AC.8, 10IM.15, 10SA.12, 12MG.3, 13AC.2, 13AC.8
Pfeffer, Melissa A. – 8ES.4
Pfeffinger, Mara – 10IM.7
Pfotenhauer, David – 4AC.35, 7AC.20, 7CB.9
Phang, Siew Moi – 5AM.7
Philipp, Andreas – 7LC.8
Philipp, Anne – 14RA.2
Piacenza, Oriana – 2IM.8
Piazzalunga, Andrea – 10SA.31

Pichelstorfer, Lukas – 9AP.5
Pickering, Edmund – 8CB.3
Picquet-Varrault, Bénédicte – 4AC.36
Pieber, Simone – 7AC.40, 13CB.5
Piedehierro, Ana A. – 4IN.19
Piedra, Patricio – 6AC.5, 11AP.4
Piedrahita, Ricardo – 7CB.9
Pierce, Brad – 9AM.4
Pierce, Jeffrey R. – 2RA.3, 4AP10, 5AC.1, 6TT.1, 6TT.4, 7TT.1, 8AM.3, 8LC.3, 11LC.2, 12AC.1, 12CB.6
Piitulainen, Eeva – 1MD.4
Pikelnaya, Olga – 7MG.18
Piketh, Stuart J. – 6CC.7
Pikridas, Michael – 7ES.13
Pileci, Rosaria Erika – 10SA.31, 12AP.8, 14CA.3
Pilholski, Thomas – 7IB.8
Pillariseti, Ajay – 4AC.27
Pilou, Marika – 4AP.11
Pineda SantaMaría, Juan Carlos – 4AP.29
Pinterich, Tamara – 1RA.3, 12IM.6
Pipal, Atar Singh – 14CA.5
Pires, Ricardo Matheus – 10BA.13
Pirim, Claire – 4CA.28
Pirjola, Liisa – 4RA.24, 10SA.27
Pirovano, Guido – 12SA.2
Pithawalla, Yezdi – 4AP.7
Pitkänen, Mikko – 13AP.2
Plachá, Helena – 4AP.12, 4RA.11
Plauskaite, Kristina – 10SA.26
Pleijel, Håkan – 7ES.12
Plewa, Michael – 7CD.15
Plitzko, Sabine – 7CD.6, 10WA.3
Plotnik, Deborah – 7LC.9, 10BA.2
Poggio, Stefano – 6CD.3
Poikkimäki, Mikko – 5RA.4
Pokharel, Lekhnath – 4IM.5
Pokhrel, Rudra – 9CA.7
Pokhrel, Suman – 2MS.5, 2MS.6
Pokorná, Petra – 10SA.28, 14SA.6
Polen, Michael – 2IN.6, 3IN.5, 4IN.10, 4IN.11
Poli, Mark – 14BA.5
Polidori, Andrea – 7MG.18, 8LC.2, 8MG.3, 10SA.18, 12LC.8
Polienor, Jean-Michel – 4AC.36
Pollack, Ilana – 11MG.1
Poluzzi, Vanes – 9CA.6
Poostforooshan, Jalal – 3MD.6, 4MS.17, 4MS.18, 4MS.19, 6MS.8
Popovicheva, Olga – 2CA.7
Porter, Jack – 1RA.1
Portier, Christopher – 6AE.7
Portin, Harri – 10SA.27
Posner, Jonathan – 12SA.4
Pospisilova, Veronika – 2AC.5, 8AC.4, 9MG.5, 10SA.21, 11AC.3, 12MG.8, 12SA.6
Possner, Anna – 6CC.4
Potila, Outi – 5RA.4
Poudel, Bijay Kumar – 7MS.2
Poulain, Laurent – 13SA.5, 14SA.1
Poulsen, Sarah Søs – 7CD.20
Power, David – 6CD.3
Pöhlker, Christopher – 2AP.1, 4AP.21, 7BA.2, 9AC.1, 11BA.8, 12AC.2, 12AP.2, 12BA.4, 12RA.8, 13CA.6
Pöhlker, Mira L. – 2AP.1, 4AP.21, 12AP.2
Pöschl, Ulrich – 2AP.1, 4AP.21, 5CD.6, 9AC.1, 11BA.8, 11HA.5, 12AP.2, 12BA.4
Pöther, Dierk – 7BA.10
Prakash, Jai – 7CB.4, 7ES.12
Prakoso, Djoko – 5RA.6
Prank, Marje – 12AC.3
Prasauskas, Tadas – 1CM.4, 7IA.5
Prass, Maria – 2AP.1, 4AP.21, 11BA.8, 12AP.2
Pratap, Vikram – 7IM.19
Prathibha, Pradeep S. – 3CM.5, 4AE.14
Prati, Paolo – 10SA.31, 12BA.8, 14CA.3
Pratsinis, Sotiris E. – 1DU.4, 12AP.3
Pratt, Kerri – 2RA.5
Preble, Chelsea V. – 6AE.7, 9LC.1, 12LC.7
Preger, Calle – 5MS.3, 10IM.1
Prenni, Anthony – 7AC.39, 12RA.1
Presto, Albert – 4AM.24, 7AE.4, 7LC.13, 8LC.1, 9LC.5, 9MG.6, 11LC.8, 14LC.6
Presto, Albert A. – 6AE.6, 6AE.7, 8AE.5, 12LC.4
Preston, Thomas – 5IM.2
Prévôt, Andre S.H. – 2AC.5, 4CA.8, 4IA.1, 7AC.7, 7AC.40, 8AC.4, 8MG.4, 9MG.5, 10SA.21, 10SA.25, 12MG.8, 12SA.6, 13CA.4, 13CB.5, 13SA.1, 13SA.3, 13SA.7, 14CA.1, 14HA.5, 14HA.6
Price, Derek – 1RA.1, 2CA.2
Pride, Michael – 6CD.9
Priestley, Michael – 9MG.8
Pripachkin, Dmitriy – 7TT.7
Prisle, Nonne – 6AC.6, 6AC.9
Priyamvada, Hema – 7IB.17, 10BA.25
Prochaska, John – 4ED.7
Protat, Alain – 1IN.4, 2IN.2
Prussin II, Aaron – 6IB.7
Przekwas, Andrzej – 6AM.4
Pudasaini, Batsal – 14LC.1
Puff, Markus – 13IM.5
Pui, David Y. H. – 1CM.1, 1CM.7, 1CM.8, 2CM.6, 2IM.5, 3CM.6, 4CM.4, 5CD.3, 7AM.13, 7CM.7, 7CM.9, 7IM.10
Pulit-Penalozza, Joanna – 6IB.6
Pullinen, Iida – 1AC.7, 4AC.14, 4AC.15, 4AC.32
Puppala, Siva Praveen – 3RA.2, 4CA.19, 8ES.6
Purvis-Roberts, Kathleen – 14AC.5
Pusede, Sally – 7MG.8
Pushpawela, Buddhi – 10MG.9, 14RA.1
Putaud, Jean-Philippe – 14CA.1
Putero, Davide – 9CA.6
Puthussery, Joseph – 6CD.5, 7CD.7
Pye, Havala – 1AC.4, 4CA.31, 7AC.11
Pyo, Juwon – 5CM.2
Qi, Chaolong – 4CM.2
Qi, Lu – 7AC.7, 12MG.8, 12SA.6
Qian, Hua – 10BA.5
Qian, Jing – 10BA.24, 13AP.6
Qian, Sean – 4AM.11
Qian, Yu – 5AC.3
Qiao, Liping – 10SA.7, 11MG.7
Qiao, Xiaohui – 7MG.24, 12LC.2
Qiao, Xue – 7TT.2, 13MG.2
Qin, Yiming – 4AP.17, 7AC.21
Qiu, Xinghua – 6AE.3, 13TO.4
Qu, Sibó – 14DU.6
Quéléver, Lauriane – 4AC.22, 10AC.2
Querol, Xavier – 10SA.30
Quincey, Paul – 4CA.16, 10IM.6
Quinn, Casey – 8LC.3, 11LC.2
Quinn, Patricia – 1RA.1, 8ES.1
Quintana, Erika – 1IN.7

Qureshi, Romaisa – 7AE.6
R., Ravikrishna – 10BA.25
Raabe, Jörg – 9AC.1
Raatikainen, Tomi – 4AM.20, 6CC.4
Radford, Daniel – 12IM.4
Radney, James – 4RA.21, 8IM.1, 11AP.2, 11IM.4
Rafferty, Aidan – 5IM.2
Raffort, Valentin – 4AM.23
Raga, Graciela – 1IN.7, 8MG.7
Rahinov, Igor – 2MS.2
Rahman, Fasiur – 7MG.16
Rahman, Md Mahmudur – 12MG.3
Rahman, Mostafizur – 10IM.14
Rahn, Thom – 13CA.7
Rai, P. – 8MG.4, 11AC.3
Rainwater, Bryan – 1IN.4
Rajeev, Pradhi – 4AC.8, 4CA.7, 13SA.2
Rajput, Prashant – 4AC.8, 4CA.7, 13SA.2
Raliya, Ramesh – 3MD.5, 4MD.3, 4MS.4, 4MS.12, 6MS.7, 7IM.12, 8IB.5
Ramachandran, Gurumurthy – 10WA.4, 14LC.3
Raman, Barani – 4MD.3, 4MS.6
Ramasamy, Sathiyamurthi – 4OF.4, 7AC.10
Ramirez, Omar – 7LC.20
Ramirez, Zyanya – 1IN.7
Ramlawi, Nabil – 5MS.1
Ramnarine, Emily – 6TT.4
Ramos, Anthony – 2IA.8
Ramsay, Robbie – 10RA.9
Ran, Liang – 7AC.27
Rana, Md. Masud – 12MG.4
Rani, Neha – 3RA.1
Rantala, Pekka – 4AC.37, 6IM.2, 7MG.13, 7MG.24, 13AC.2
Rao, P. – 10MG.3
Rao, P.S.P. – 10SA.24
Rao, Padma – 4CA.22, 7CM.5
Rao, Sofiya – 7ES.4
Rappenglueck, Bernhard – 11MG.1
Rasch, Philip – 7CD.21, 7TT.9
Rasmussen, Angela – 7IB.10
Rastogi, Neeraj – 5CD.8, 7AC.33, 9MG.5, 10MG.20, 10SA.25, 11AC.3
Rastogi, Vipin – 10BA.17
Rathi, Shubham – 10TO.6
Rathod, Sagar – 7ES.9
Ratnesar-Shumate, Shanna – 9BA.4
Rattigan, Oliver – 4RA.7, 7CD.17, 14CA.4
Raula, Janne – 4MD.9
Raveh-Rubin, Shira – 2IN.5
Ravi, Nathan – 7CD.4
Ray, Eric – 2RA.3, 12AC.1
Raymond, Tim – 2AP.8, 2IA.8
Raza, Syed Turab – 6AE.2, 7AE.6, 7MG.6
Razafindrambinina, Patricia – 7CC.12
Read, Katie – 10BA.7
Reavell, Kingsley – 12IM.7
Rebane, Riin – 7CB.6
Reche, Cristina – 10SA.30
Rector, Lisa – 7IM.7
Redelstein, Johanna – 7LC.8
Redmann, Rachel – 7IB.24
Reece, Stephen – 7LC.2
Reed, Douglas – 6IB.9
Reed, Jenna – 11HA.6
Reed, Nathan – 3MD.5, 4MD.3, 4MS.12, 5IM.6, 7IM.12, 8AE.3
Reed, Susan – 7IB.5
Reggente, Matteo – 5IM.8, 7IM.21, 13CA.6
Rehman, Wajih Ur – 10TO.4
Reicher, Naama – 2IN.5, 4IN.4
Reid, Jonathan P. – 3MD.2, 5AP.1, 6AC.6, 6MS.6, 7AC.17, 8IB.8, 9AC.6
Reilly, Chris – 13TO.1
Reinisch, Tristan – 4IM.14
Reis, Stefan – 4AM.17
Reiser, Sarah – 3MD.6
Relan, Rishi – 1AM.4
Rémond, Yves – 3CM.2
Ren, Haixia – 4AC.10, 13CB.2
Ren, Lujie – 11CA.8
Ren, Weishan – 12BA.2
Ren, Yihua – 1DU.8
Renbaum-Wolff, Lindsay – 5CA.7
Rentenberger, Christian – 5IM.5
Reponen, Tiina – 2IA.4, 7IB.3, 9BA.5, 9WA.5, 11BA.4
Reyes, Felipe – 9WA.6
Reyes, Jose – 6CD.4
Reyes Trujeque, Javier – 4AP.29
Reyna, Cathryn – 10BA.16, 11BA.1
Ribeiro, Igor O. – 1AC.1, 12RA.6
Rice, Joann – 4CA.32, 7LC.2
Rich, David Q. – 7LC.18, 10SA.13, 11LC.1
Richardson, Mathews – 2RA.3
Richterová, Dáša – 4RA.11
Richters, Stefanie – 14SA.1
Rideout, Greg – 8IM.6
Riedel, Theran P. – 1AC.4
Riedel, Till – 7LC.8
Rieker, Marcus – 8CB.8
Riemer, Nicole – 6TT.1, 7AM.14, 7AM.15, 7TT.6
Riesterer, Johannes – 7LC.8
Rigler, Martin – 10SA.21, 12SA.6, 14CA.1
Riipinen, Ilona – Plenary V, 3IN.2, 5AP.2, 9AP.5, 10AC.13
Rim, Donghyun – 10LC.4
Rinaldi, Matteo – 9CA.6, 12AP.8
Rincón, Juan Manuel – 8AE.2
Rincón, Maria Alejandra – 8AE.2
Rinkenburger, Alexander – 11CB.7
Rissanen, Matti – 2AC.6, 2AC.7, 4AC.37, 6IM.5, 7AP.24, 9AM.8
Rissler, Jenny – 10IM.6
Ristenpart, William D. – 6IB.3
Ristovski, Zoran – 4AC.12, 8CB.3
Riuttanen, Laura – 4ED.6
Riva, Matthieu – 1AC.1, 1AC.4, 2AC.2, 2AC.6, 2AC.7, 4AC.22, 4AC.37, 6IM.2, 7AP.29, 10SA.12
Rivas, Ioar – 8AE.4, 10SA.30
Rivera, Danielle – 11BA.1
Rivera-Adorno, Felipe – 11LC.8
Rizzo, Luciana – 7AP.21, 7MG.4, 12AC.2, 12RA.8
Roberge, Anthony – 9LC.3
Robert, McCormick – 10CB.10
Roberto, Colombo – 7CC.10
Roberts, Greg – 1RA.4, 7TT.13
Roberts, James – 5AC.1, 11IM.3, 11MG.1, 13CA.1, 14AC.1
Robinson, Allen – 4AM.24, 4AM.32, 4CA.2, 6AE.6, 6AE.7, 7AE.4, 7CB.17, 8AE.5, 9CA.1, 12CB.6, 12LC.4, 14LC.6
Robinson, Claire – 7CC.13, 13CB.7, 13CB.8

Robinson, Ellis Shipley – 6AE.6, 6AE.7, 7AE.4, 9MG.6
Robinson, Sarah – 5CD.5, 10TO.10
Robinson, Wade – 7IM.14
Rodrigues, Felipe Roberto – 3ED.5
Rodriguez-Caballero, Emilio – 12BA.4
Rodríguez-Minguela, Carlos M. – 10HA.6
Rodriguez-Perez, Daniel – 2MS.7
Roesch, Michael – 4IN.15
Roest, Geoffrey – 11IM.1
Rogak, Steven – 2CA.7, 10CA.8, 11CB.4
Rogers, Shane – 10BA.24
Rogers, Todd – 6IM.7, 7IM.29
Rohra, Himanshi – 4AE.2
Rohrer, Franz – 1AC.7, 4AC.15
Rojas, Antonio – 3AC.1
Rojas, Nestor – 4CA.34, 11MG.6, 13MG.7, 14SA.2
Rollins, Andrew – 2RA.1
Romakkaniemi, Sami – 4AM.20, 6CC.4, 13MG.4
Romay, Francisco – 10IM.10, 13IM.1
Romonosky, Dian – 13CA.7
Rondanelli, Roberto – 11LC.8
Rong, Rui – 13TO.6
Rongrong, Shen – 8MG.8
Rooney, Brigitte – 4AC.27
Rosario-Ortiz, Fernando – 4AC.35, 7AC.20
Rosas, Irene – 14SA.2
Rosas, Irma – 1IN.7
Rosati, Bernadette – 2AP.6
Roscioli, Joseph – 4CA.2, 7CB.18
Rose, Caitlin – 1AC.1
Rose, Clemence – 4AC.22, 7AP.29, 10AC.7
Rose, Elizabeth – 4IM.13
Rosell-Llompart, Joan – 5MS.2, 7MS.1
Rosenberger, Thore – 13IM.4
Rosendhal, Ida – 2AC.6
Rosenfeld, Daniel – 4IN.4
Rosenlof, Karen – 1AM.5, 2IN.4, 2RA.1
Rosenvinge, Patrick – 11BA.3
Ross, James – 2IA.4
Rostami, Ali – 4AP.7
Rostedt, Antti – 4RA.24, 5RA.4, 13IM.3
Roth, Patrick – 8CB.1, 8CB.5, 10CB.1, 10CB.26
Rothen-Rutishauser, Barbara – 3MD.3
Rothfuss, Nicholas – 3OF.6, 7IM.9, 13CA.3
Roubert, Mayra – 10HA.6
Roudsari, Golnaz – 4IN.18
Roupsard, Pierre – 5RA.1
Roustan, Yelva – 4AM.23
Rovelli, Grazia – 9AC.6
Rowe, James – 4AC.19, 10HA.12
Roy, Chad J. – 7IB.24, 8IB.6
Roy, Madhumitaa – 4IM.18
Roy, Somesh – 10CB.15
Rozet, Marianne – 5RA.1
Röhrbein, Jannis – 3MS.1
Röhrer, Georg – 13AP.1
Rönkkö, Topi – 4IM.19, 4RA.24, 5RA.4, 7CB.11, 7CB.20, 8CB.4, 8CB.5, 8CB.7, 9WA.6, 13SA.4
Rrossignol, Stéphanie – 6CC.7
Ruan, Renhui – 2CM.5
Rudich, Yinon – 2IN.5, 3OF.1, 3OF.3, 4IN.3, 4IN.4, 4OF.6, 7CD.16, 10TO.7, 12AC.8, 13TO.4
Rudolph, Andreas – 10IM.10
Rudziński, K.J. – 4AC.2
Ruega, German – 4CA.34, 11MG.6
Ruffieux, Dominique – 7TT.12
Ruggeri, Giulia – 11IM.8, 13CA.6
Ruiz, Sara – 7IB.20, 7IB.21, 7IB.26, 8IB.4
Rupakheti, Maheswar – 3RA.2
Ruprecht, Ario – 4CA.18
Russell, Armistead G – 7AC.23
Russell, Armistead G. – 5AC.3, 5AM.1, 5CD.1
Russell, Lynn – 1IN.4, 1RA.1, 2CA.2, 7CB.17, 8ES.1, 9AM.5
Rutherford, Jay – 12SA.4
Ruuskanen, Taina – 4ED.6
Ruzycki, Conor A. – 1MD.3, 4MD.6
Ryerson, Thomas – 11MG.1, 14RA.2
Sá, Marta – 2AP.1, 4AP.21, 10RA.9
Saari, Sampo – 4IM.19, 4IM.22, 9WA.6
Saarikoski, Sanna – 4RA.24, 7CB.11, 7CB.20, 8CB.4, 8CB.7, 9WA.6, 10SA.27
Saathoff, Harald – 2IN.7, 9AC.7
Saavedra, Gabriela – 4CA.20, 7IM.23
Sabban, Lilach – 14AP.2
Saber, Anne T – 7CD.20
Saber, Anne Thoustrup – 4IA.13
Sabo-Attwood, Tara – 5CD.5, 10TO.10
Sadanaga, Yasuhiro – 4OF.4
Sadighzadeh, Asghar – 4RA.6
Safai, P.D. – 7MG.15, 10MG.3
Safatov, Alexandr – 7BA.23, 7IB.13
Safdar, Sidra – 7MG.6
Saffell, John – 11LC.4
Safi, Mariem – 12BA.1
Sage, Felix – 7BA.26
Saggese, Chiara – 1DU.1
Sagot, Benoit – 4AP.18
Sah, Dinesh – 7AC.33
Saha, Debajit – 4MD.3
Saha, Provat – 8AE.5, 8LC.1, 12LC.4, 13CA.6
Saharan, Vinod – 4MS.4
Sahrma, Shyam Sundar – 4MS.4
Sahu, L.K. – 11AC.3
Sahu, Rakesh – 4CA.13
Sahu, Shovan – 4AE.6
Saied, Sumayya – 8MG.5
Sakamoto, Masaki – 7IM.32
Sakamoto, Yosuke – 4OF.4
Sakurai, Hiromu – 4IM.32, 7IM.6, 8IM.3
Salamanca, Maurin – 11CB.5
Salani, Maria Helena G.de A. – 4RA.28
Salazar, Gary – 13CA.4, 13SA.3
Salazar, Joseph – 4AC.35, 7AC.20, 7CB.17
Salazar, Keiko – 10BA.16
Salcedo, Dara – 7MG.12, 9MG.7, 10MG.18
Saldiva, Paulo – 8LC.9
Saleh, Rawad – 7AC.5, 7AM.6, 9CA.4, 10CB.18
Saliba, Georges – 2RA.4, 8ES.1, 9CA.1
Saliba, Najat A. – 4RA.8
Salimifard, Parichehr – 10LC.4
Salinas, Eva – 1IN.7
Salm, Jaan – 7AM.1
Salmatonidis, Apostolos – 4RA.30, 9WA.8
Salo, Laura – 9WA.6

Saltzman, Eric – 1RA.1
Samaras, Zissis – 2IM.8, 8CB.7
Samburova, Vera – 8ES.7, 10DU.4
Samiksha, Shilpi – 4CA.15, **4CA.17**
Samir, Rezgui – 7BA.5
Sancelme, Martine – 7CC.8, 10BA.10, 11BA.2
Sanchez, Kevin – 1RA.1
Sanchez, Nancy – **10SA.20**
Sandler, Amir – 4IN.4
Sang-Nourpour, Nafiseh – 9LC.3
Sangrin, Lee – 7CM.8
Sankaran, R. Mohan – 14AP.3
Santa Cecilia, Guilherme – 3ED.5, 12RA.8
Santarpia, Joshua – 5IM.3, 6AC.5, 7BA.6, 8AC.9, **9BA.4**, 10BA.16, **11BA.1**
Santhanakrishnan, Arvind – 4AM.2
Santino, Luciano – 6MS.9
Santl-Temkiv, Tina – 1IN.5
Santos, Rayner – 7TT.15
Santoso, Muhayatur – **5RA.6**
Santra, Sauvik – 4CA.36
Sapra, B.K. – 4AM.3, 4AP.24, **4IM.25**, 4RA.9, 5CM.7, 7AM.9
Sarangi, Chandan – 7ES.11
Sarkar, Chinmoy – 1OF.7, 4OF.2
Sarkar, Tanmay – 4AM.13
Sarma, V.K. – 12SA.5
Sarnat, Stefanie Ebelt – 5CD.1
Sarnela, Nina – 2AC.6, 10AC.7
Sarrafzadeh, Mehrnaz – 1AC.7
Sartelet, Karine – 14AC.2
Sarwar, Golam – 1AM.6
Sassen Brand, Veronika – **7AE.10**
Sastry, B.S – 3RA.1
Satheesh, S.K. – 4RA.4, 7ES.6, 7ES.8
Satish, Rangu Venkata – 5CD.8, 7AC.33, 9MG.5, 10MG.20, 10SA.25, 11AC.3
Sato, Kei – 4OF.4, **7AC.10**, 8AM.4
Sato, Tsubomi – 10HA.1, 13TO.2
Satsangi, Gursumeeran – 11LC.1
Saturno, Jorge – 2AP.1, 4AP.21, 12AP.2, 12RA.8
Sauer, Daniel – 13CB.8
Sauer, Lauren – 7IB.8
Saukko, Erkka – 4RA.24, 5RA.4
Savage, Nicole – **7BA.2**, 7BA.16, 12BA.4
Sawai, Jun – 7BA.24
Sawano, Hidetoshi – **7CB.19**, 7IA.11
Sayahi, Tofigh – **9LC.8**, 10LC.8
Scanga, Charles – 6IB.9
Scarnato, Barbara – 5CA.8
Schade, Julian – 6IM.1
Schaefer, Joe – 7LC.1
Schallhart, Simon – 2AC.2, 2AC.7, 4AC.22, 10AC.2
Schauer, James – 10DU.5, 10SA.18, 11LC.7, 14SA.2, 14SA.4
Scheckman, Jacob – 10IM.11, **10IM.12**
Schepanski, Kerstin – 4AM.7
Schervish, Meredith – **2AC.4**
Scheuer, Eric – 4CA.26
Schichtel, Bret – **7AC.39**, 12RA.1, 12RA.5
Schiebel, Thea – 4IN.2
Schill, Gregory – 2IN.4, **11CA.1**
Schiller, Sven A. – 1RA.1
Schittko, Nadine – 4IN.2
Schlag, Patrick – 1AC.7, 7MG.4, 8AC.5
Schlager, Hans – 13CB.8
Schlesinger, Daniel – 3IN.2
Schloesser, Herbert – 7IM.2
Schmale, Julia – 6CC.9
Schmedding, Ryan – 7AC.11
Schmid, Beat – 9LC.2
Schmid, Otmar – **3MD.3**, **5CD.2**, **6CD.6**, **7CD.20**, **10TO.8**
Schmidt, Frank – 3IA.2
Schmidt, Kilian – 13AP.3
Schmidt-Ott, Andreas – **5MS.1**, 7LC.25
Schmitt, Sebastian H. – **1AC.7**, 3RA.6, **4AC.14**, 4AC.15, 4AC.32, 8AC.5
Schneider, Johannes – 12AC.2
Schneider, Stephanie – 12AC.7
Schneiderwind, Ute – 3IA.1
Schnell, Russell – **12BA.7**
Schnelle-Kreis, Juergen – 6CD.7, 7LC.8
Schnitzler, Elijah – **11CA.7**
Schobesberger, Siegfried – 4OF.8, 6IM.6, 7AC.19, 7AP.24, 10AC.7
Schrader, Paul – 11CB.6
Schrieffl, Mario Anton – 13IM.5
Schripp, Tobias – **13CB.7**
Schroder, Jason – 5AC.1, 7MG.8, 9MG.1, 11MG.1, 12AC.1
Schuchmann, Simone – 5AM.6, 9AM.8
Schuh, Harald – 6CC.1
Schuit, Michael – 7IB.23
Schuldt, Tobias – 3IA.2
Schultze, Thorsten – 8LC.6
Schulz, Alexander – 7AP.29
Schulz, Christiane – 12AC.2
Schulz, Christof – 2MS.2
Schulze, Benjamin – 4AC.16, 10SA.20
Schulze-Hessing, Inken – **7BA.10**
Schum, Simeon – 1RA.4, **1RA.5**, 2RA.2, 4IM.13
Schumacher, Stefan – 3IA.1, **12CB.1**, **13AP.3**
Schumann, John – 7CD.6
Schurman, Misha – 7AC.21
Schwab, James – 4CA.33, 5AM.4, 7AC.12, 10RA.4, **11AC.1**, 11AC.4, 14CA.4
Schwantes, Rebecca – **1AC.8**, 4AM.28
Schwarz, Jaroslav – 4AC.17, 4CA.24, 4MS.10, 10SA.15, **10SA.28**, 14SA.6
Schwarz, Joshua P. – 1AM.5, 2CA.8, 4CA.21, 4CA.26, 7MG.8, 12AC.1, 13CA.1
Schwede, Donna – 10RA.7
Schäfer, Klaus – 7LC.8
Sciare, Jean – 4CA.8, 13SA.7
Scorpio, Angelo – 7IB.7, 8IB.3
Scott, Andrew – **8IB.9**
Scott, John – 11AC.2
Scotto, Cathy S. – 9BA.2, 10BA.17
Scrimgeour, Jan – 14LC.1
Seaman, Clara E. – **8IM.7**
Seay, Brannon – 7LC.6
Sebastiani, Bartolomeo – 12BA.5
Sebold, Melissa – 4AC.38
Sedberry, Keith – 7CD.2
Sedlacek, Arthur J. – 1RA.2, 4CA.14, 5CA.7, 10CA.4, 13CA.2
Seeger, Stefan – 10IM.6
Seffense, Courtney – **7BA.17**
Segars, Katharine – 14BA.2
Segev, Lior – 4OF.6
Segura, Julián Felipe – 9MG.2
Seibert, Petra – 14RA.2
Seifert, Patric – 4AP.22

Seinfeld, John – 1OF.6, 2AC.8, 2CA.3, 4AC.27, 4AM.28, 4ED.5, 5AP.4, 8AM.2, 10BA.6, 11IM.2
Sekimoto, Kanako – 13CA.1
Selimovic, Mirela – 9IM.4
Selimovic, Vanessa – 2CA.8, 11CA.6, 13CA.1
Sellmann, Johannes – 2MS.2
Selvaggi, Roberta – 12BA.5
Sengupta, Arupananda – 5MS.8
Sengupta, Babu – 5CD.7
Sengupta, Deep – 8ES.7, 10DU.4
Sengupta, Shayak – 4AM.11
Senick, Jennifer – 7LC.9, 10BA.2
Senum, Gunnar – 10RA.2
Seo, Bongjin – 10CA.3
Seo, Jihoon – 1AC.5
Seo, Seok-Jun – 4OF.7
Seo, Youngjin – 4AM.19, 7AM.17
Seong, Dahae – 10BA.12
Seppänen, Aku – 7AM.12, 8AM.7
Seraj, Sarah – 8MG.6, 11MG.8
Serfozo, Norbert – 4CA.24
Sergio, Cogliati – 7CC.10
Seshadri, Satyanarayanan – 14LC.4
Seth, Jyoti – 9AM.6
Sethi, Virendra – 4RA.23, 10MG.15, 14DU.4
Sethuraman, Karthik – 4IA.7, 12CB.5
Seto, Edmund – 12SA.4
Seto, Takafumi – 3MS.4, 4AP.1, 4AP.4, 4CM.16, 7CM.4, 7IM.32, 7IM.33, 7MS.7, 10WA.1, 14RA.6
Setyan, Ari – 10HA.9, 10TO.3
Severi, Mirko – 2RA.6
Sexton, Kenneth – 7AC.25, 14AC.1
Shaban, Masoom – 3MD.6, 4MS.17, 4MS.18, 4MS.19, 6MS.8
Shafer, Martin – 10SA.18
Shah, Dhawal – 6AM.6
Shah, Rishabh – 6AE.7, 9MG.6
Shah, Viral – 9MG.1
Shahan, Michael R. – 8IM.7
Shahpoury, Pourya – 5CD.6
Shahzad, Sammuel – 6CD.1
Shairsingh, Kerolyn – 8AE.1
Shamun, Sam – 7CD.11, 10CB.7
Shan, Ming – 10DU.5
Shang, Dongjie – 7MG.22, 13MG.1
Shang, Yidan – 1MD.8
Shao, Jingyuan – 5AC.8
Shao, Panyang – 10MG.16
Shao, Shikuan – 2MS.3
Shareef, Mohammed M. – 4CA.1
Sharifi, Hamed – 7LC.14, 10MG.21
Sharma, Girish – 1DU.3, 4IM.8, 7AM.2, 7MS.10, 13AP.5
Sharma, Sangeeta – 7ES.16, 10RA.10
Sharma, Sumit – 4AC.27
Sharma, Swati – 10SA.19
Shaviv, Nir Joseph – 2AP.5
Shaw, Jiunn-Haur – 7LC.27
Shaw, Stephanie L. – 1AC.1, 7AC.41, 13CA.4
Shaw-Saliba, Kathryn – 7IB.8
Sheesley, Rebecca – 4AC.16
Shekarrizfard, Maryam – 7CD.14
Shelly, Saima Yaqub – 6CD.1
Shen, Fangxia – 11HA.5
Shen, Huizhong – 7CD.21, 7TT.9
Shen, Kuan-Yu – 1DU.5
Shen, Lian – 7CM.7
Shen, Xiaojing – 5AM.4
Shen, Zhenxing – 10SA.8
Shephard, Peggy – 4ED.7
Shetty, Nishit – 4CA.25, 10CA.5, 10CA.12, 10CA.15
Shi, Guoliang – 5AC.8
Shi, Linlin – 8IM.8
Shi, Yang – 4IN.12
Shi, Zongbo – 10SA.29
Shibata, Kenji – 10CB.21
Shigematsu, Yuki – 4MS.7
Shih, Pei-Yun – 4CM.9
Shihadeh, Alan – 4RA.8
Shilling, John – 1AM.1, 6CC.3, 8AM.2, 10AC.12, 11AC.8, 13CA.2
Shim, Sung-min – 7LC.15
Shimada, Izumo – 4MS.7
Shimada, Manabu – 4MS.7, 4MS.8, 4MS.9, 6MS.1
Shimono, Akio – 7IM.31
Shin, Chulmin – 4IM.2
Shin, Han-Jae – 10TO.4
Shin, Hye Jung – 4AC.30, 7AC.29, 9MG.3
Shipway, Benjamin – 6CC.4
Shiraisi, Munehiro – 7BA.24
Shiraiwa, Manabu – 5AC.5, 7AM.8, 7CD.13, 8AM.8, 9AC.8, 9CA.5, 11HA.5
Shirmohammadi, Farimah – 10SA.18
Shishido, Daiki – 7IM.34, 10HA.1, 13TO.2
Shokeen, Monica – 4MS.12
Shook, Michael – 7CC.13, 13CB.7, 13CB.8
Shoshanim, Ofir – 7CC.11
Shrivastava, ManishKumar – 1AM.1, 7CD.21, 7TT.9, 11AC.8
Shu, Shi – 7AM.3
Shufeng, Pang – 4AC.1, 7AC.1
Shukla, Krishna Kumar – 2CM.3, 4CM.9, 12IM.8
Shuvalov, Gennadii – 7BA.23
Siddique, Azhar – 8MG.5, 14HA.4
Sidhaye, Venkataramana – 12IM.5
Siebert, Holger – 4AP.22, 7TT.13
Siegel, Jeffrey – 3IA.3
Siegfried, Matthew – 12IM.4
Signorell, Ruth – 7AP.32
Silcott, David – 8IB.7
Sills, David – 9AM.3
Silva, Dulcilena de Matos Castro – 10BA.13
Silva, Philip – 10AC.1, 14AC.5
Silvennoinen, Henna – 4RA.24
Silverman, Frances – 10LC.11
Silverman, Jill – 6CD.9, 7CD.9
Silveyra, Patricia – 7CD.8
Silvis, Bill – 4IM.14
Simeonov, Valentin – 11AP.6
Simon, Mario – 2AP.3, 4AC.20, 7AP.24, 7IM.24, 9AM.8, 10AC.9, 13AC.1, 13AC.4
Simon, Skyler – 4RA.19, 7AC.36
Simon, Xavier – 13BA.6
Simonen, Pauli – 5RA.4, 8CB.4, 8CB.5, 8CB.7
Simonich, Staci L. – 4AC.24, 5AC.7, 7CD.21, 7TT.9
Simonow, Barbara – 10WA.3
Sims, Shalayne – 9WA.7
Sin, Agusti – 4RA.30

Sinclair, Victoria – 8ES.5
Singh, Ajay V. – 1DU.1
Singh, Amit Kumar – 4AC.8, 4CA.7, 13SA.2
Singh, Ashish – 1AM.3
Singh, Atinderpal – 5CD.8, 10MG.20
Singh, Darshan – 4CA.23, 5CD.8
Singh, Dharmendra Kumar – 13SA.2, 14AC.3
Singh, Gyanesh Kumar – 4AC.8, 4CA.7, 13SA.2
Singh, Madhu – 4DU.4, 5CA.4, 7CD.8, 9AM.7
Singh, Manoj – 7MG.23
Singh, Mohit – 4AP.13, 9AP.2
Singh, Nandita – 3RA.5
Singh, Narendra – 7MG.15
Singh, R.S. – 3RA.5, 12SA.5
Singh, Raj Kamal – 10BA.25
Singh, Rohini – 10BA.8
Singh, Sachchidanand – 3RA.3
Singh, Sachidanand – 4AM.25
Singh, Sandeep – 10HA.18
Singh, Sanjay – 5CM.7
Singh, Siddhartha – 8ES.8
Sinha, Aditya – 4OF.10
Sioutas, Constantinos – 4CA.18, 4RA.8, 6CC.1, 7MG.18, 8MG.3, 10SA.16, 10SA.18, 12MG.3, 14SA.5
Sipilä, Mikko – 6IM.5, 7AP.24, 7AP.29, 10AC.7, 10AC.8, 11MG.7, 13AC.8
Sippula, Olli – 3OF.5, 5CM.3, 6CD.7, 7CB.1, 8AM.5, 11CA.5
Sivaprakasam, Vasanthi – 10AP.4
Sivko, Gloria – 7IB.5
Siyue, Sun – 10HA.8
Skenderovic, Ivan – 8AM.6
Skiles, Matthew – 14SA.4
Sklorz, Martin – 6CD.7, 6IM.1, 7CB.1
Skoptsov, George – 5MS.8
Skufca, Joseph – 14LC.1
Slater, Eloise – 9MG.8
Slater, Jessica – 13MG.4
Slowik, Jay G. – 2AC.5, 7AC.7, 7AC.40, 8AC.4, 8MG.4, 9MG.5, 10SA.21, 10SA.25, 12MG.8, 12SA.6, 14CA.1, 14HA.5
Smail, Fiona – 3MS.6, 5MS.7
Smallwood, Gregory – 5CA.6, 8IM.6, 10IM.2, 12AP.6, 13CB.7
Smiljanic, Milena – 4AM.10
Smirnow, Nikolai – 7TT.11
Smith, Geoffrey – 5CA.7, 7IM.13, 8IM.2
Smith, James – 5AC.4, 7AC.28, 9AC.8, 10RA.11
Smith, Kirk – 4AC.27
Smith, Larry – 7LC.1
Smith Korfmacher, Katrina – 4ED.7
Snell, Luke – 8AE.5
Sochorakis, Nikolas – 5MS.2
Sofowote, Uwayemi – 10SA.4, 10SA.5, 4CA.29
Solgi, Eisa – 4RA.6
Solier, Luc – 4RA.1, 4RA.20, 5RA.1
Solomon, Amy – 1IN.1
Solomon, Paul A. – 2IA.3, 5CA.1
Somers, Josh – 4IN.10
Song, Deog-Yong – 10WA.5, 10WA.6
Song, Hangyul – 10TO.4
Song, Min Seok – 4AC.30, 4OF.7
Song, Shaojie – 5AC.8
Song, Tao – 7MG.17, 14AC.4
Song, Won-Il – 10WA.5, 10WA.6
Song, Young-Chul – 5AP.1, 9AC.6
Soni, Prashant – 8MG.6, 11MG.8
Soni, Vijay Kumar – 7MG.9, 7MG.15, 8ES.8
Soo, Jhy-Charm – 10WA.7
Soora, Naresh Kumar – 3RA.3
Sorek-Hamer, Meytar – 4AE.11
Sorensen, Christopher – 1DU.2, 4AP.9, 4AP.14, 4AP.27, 4MS.5, 7AP.31, 12AP.5
Sorensen-Allacci, MaryAnn – 10BA.2
Sorooshian, Armin – 2CA.3, 10BA.6
Sorvali, Miika – 7MS.12
Sosa Echevería, Rodolfo – 4AP.29
Soukup, James V. – 12MG.6
Sousan, Sinan – 11LC.5
Souza, Amanda – 3ED.5
Sowlat, Mohammad – 4CA.18, 4RA.8, 7MG.18, 8MG.3, 10SA.16, 10SA.18, 12MG.3, 14SA.5
Soysal, Ugur – 7LC.3
Sörgel, Matthias – 10RA.9
Spak, Scott N. – 1AM.3
Spencer, Peyton – 7AP.40
Spiegelhoff, Daniel – 3IA.1
Spielman, Steven – 4IM.10, 7IM.3, 9IM.8
Spielvogel, Juergen – 8CB.8, 10IM.10, 10IM.11, 10IM.12
Spindler, Gerald – 4AP.22, 7AC.27
Spracklen, Dominick – 13BA.8
Spreitzer, Michael – 8LC.6
Springer, Monika – 1AC.7, 4AC.32
Springston, Stephen – 1RA.2, 1RA.3, 1RA.7, 10RA.2
Squires, Freya – 9MG.8, 10MG.12
Squizzato, Stefania – 4ED.7, 7LC.18, 10SA.13
Srivastava, Atul K. – 2RA.7, 10MG.3, 10MG.6, 10MG.17, 10SA.25, 11AC.3
Srivastava, Deepchandra – 4AM.4, 10SA.1, 10SA.5
Srivastava, Manu – 7LC.2
Srivastava, Parul – 5CD.7
Stabile, Luca – 10IM.6
Stadtler, Hannah – 11HA.6
Stahlmecke, Burkhard – 12CB.1
Stamatis, Christos – 10CB.26, 11CA.6
Stamper, Christopher – 10BA.18
Stangl, Chris – 4AC.11, 13AC.5
Stanier, Charles – 1AM.3, 4IM.23, 4RA.14, 9LC.7, 14HA.2
Stapf, Dieter – 10CB.14
Stark, Harald – 4OF.3
Stathopoulos, Vasileios – 8ES.9
Stavroulas, Iasonas – 4CA.30
Stebounova, Larissa – 11LC.5
Steensma, Joseph – 10LC.9
Stefenelli, Giulia – 7AC.7, 9MG.5, 10SA.21, 11AC.3, 12MG.8, 12SA.6, 14CA.1, 14HA.5
Steiner, Gerhard – 6CC.1, 6IM.6, 9IM.4, 10AP.2
Steiner, Helfried – 10HA.11
Stell, Angharad – 11HA.4
Stengel, Benjamin – 7CB.1, 13CB.5
Stephan, Chady – 7IM.8
Stephanou, Euripides G. – 14CA.6
Stephens, Brent – 3IA.6, 4IA.18, 6AE.4
Stevanovic, Svetlana – 4AC.12, 8CB.3
Stevens, Robin – 6CC.4
Stewart, Devoun – 3AC.1, 7AC.31
Stewart, Kathleen – 2IA.3
Stewart, Matthew – 12RA.6

Stintz, Michael – 4MD.1, 10HA.11
Stith, Jeffrey – 1IN.4
Stockwell, Chelsea – 13CA.1
Stoeger, Tobias – 7CD.20, 10TO.8
Stoltz, Brian – 2AC.8
Stolzenburg, Dominik – 2AP.3, 7AP.24, 7IM.15, 9AP.5, 10AC.6, 10AC.9, 10AC.10, 13AC.1, 13AC.4
Stone, Elizabeth – 3RA.2, 4CA.19, 4RA.14, 7AC.8
Stone, Howard A – 1DU.6
Stone, Richard – 7CC.9
Storch, Steven – 10BA.16, 11BA.1
Strawbridge, Kevin – 12AC.5
Streibel, Thorsten – 6CD.7, 7CB.1
Stroh, Oliver – 11LC.5
Stroud, Craig A. – 9AM.3
Strzalka, Joseph – 6MS.5
Stussie, Tiana – 4MS.12
Stutz, Jochen – 11MG.1
Styler, Sarah – 12AC.7
Su, Hang – 2AP.1, 4AP.21, 12AP.2
Su, Jason S. – 4AE.14
Su, Lipeng – 2IM.5
Su, Wei-Chung – 9WA.2, 10WA.2
Su, Yushan – 10LC.11, 10SA.4, 4CA.29
Su, Zhijing – 13IM.2
Subramanian, R. – 6AE.6, 7LC.13, 8LC.1, 9CA.1, 10LC.13, 11LC.8, 12CB.6, 12LC.4, 14LC.6
Sueper, Donna – 3RA.4
Suhonen, Heikki – 3OF.5, 5CM.3
Suixin, Liu – 10SA.3
Sullivan, Amy P. – 7AC.23, 11IM.7, 13SA.8
Sullivan, Ryan – 2IN.6, 3IN.5, 4IN.10, 4IN.11, 5IM.4, 7AC.24
Sumit, Sankhyan – 4IA.8
Sumlin, Benjamin – 3OF.2, 7AC.36, 9LC.6, 10AP.5, 10CA.3, 10CA.12, 11AP.5
Summer, Campbell – 11LC.5
Summer, Michael – 12IM.4
Sumner, Walton – 10HA.20
Sun, Baobin – 6AM.5
Sun, Cuizhi – 6TT.6
Sun, Jian – 7CB.7
Sun, Jianfeng – 4CA.11, 10TO.5
Sun, Jinjin – 7MG.1
Sun, Junying – 5AM.4
Sun, Ruoyu – 7MG.2
Sun, Shiqi – 7AC.30
Sun, Wei So – 14LC.5
Sun, Yele – 4CA.20, 5AC.6, 5AC.8, 7AC.14, 7AP.30, 7IM.23, 7MG.20, 8MG.9, 9MG.4, 9MG.8, 10MG.12, 11AC.1, 13MG.4
Sunder Raman, Ramya – 4CA.15, 4CA.17, 7AC.32, 10MG.1, 10RA.12
Sung, Jung-Che – 2CM.3, 12IM.8
Sunil, Gulia – 7MG.21
Sunil, Sneha – 10RA.14
Sunkara, Srilakshmi – 7ES.11
Sur, Shantanu – 7IB.17, 10BA.24
Surawski, Nic – 7LC.25
Suriyawong, Achariya – 14BA.1
Surratt, Jason – 1AC.4, 3IN.6, 4AC.5, 7AC.11, 7AC.25, 7AP.40, 9AC.5, 14AC.1
Suski, Kaitlyn J. – 1AM.1, 4AC.24, 4IN.13, 4IN.14, 5AC.7, 11AC.8
Susumu, Tohno – 4CA.12
Sutaria, R. – 11AC.3
Svenningson, Birgitta – 12CB.8
Svensmark, Henrik – 2AP.5
Svensmark, Jacob – 2AP.5
Swanson, Benjamin E. – 7BA.5, 10LC.15
Swanson, Jacob – 8LC.7
Swietlicki, Erik – 14SA.6
Swihart, Mark – 2MS.3
Symonds, Jonathan – 4CM.7, 4IM.21, 12IM.7, 13IM.6
Szidat, Soenke – 13CA.4, 13SA.3
Szmiagielski, Rafal – 4AC.2
Szodry, Kai-Erik – 7TT.13
Szpek, Kate – 11CA.2
Šmejkalová, Adéla Holubová – 4CA.24
Švehla, Jaroslav – 4MS.10
Tabakova, Ksenia – 8ES.5
Taghvaei, Sina – 10SA.16, 14SA.5
Tahiri, Abdelouahid – 4RA.18, 10RA.5
Taipale, Risto – 2AC.6
Takahama, Satoshi – 4CA.27, 5IM.8, 7AC.41, 7IM.21, 11IM.8, 13CA.6
Takahashi, Katsuyuki – 4CA.6
Takami, Akinori – 4AP.1, 14RA.6
Takano, Hirohisa – 13TO.2
Takashi, Ogi – 2MS.4, 4MS.14
Takegawa, Nobuyuki – 6TT.6
Takeshi, Ohura – 4CA.12
Taketani, Fumikazu – 1RA.6
Takeuchi, Masayuki – 1AC.6, 4AC.26, 4AC.33, 4CA.20, 5AP.5, 7IM.23, 8AC.2, 11IM.6, 12AC.6, 13SA.8
Takhar, Manpreet – 4OF.9
Takigawa, Masayuki – 1RA.6
Talele, Aniket – 9AM.6
Tallving, Pia – 11HA.8
Talukdar, Ranajit – 11IM.3
Tamadate, Tomoya – 4AP.4
Tamm, Eduard – 9IM.2
Tamme, Kalju – 7AM.1, 9IM.2
Tan, Haobo – 7AC.21
Tan, Houzhang – 2CM.5, 14DU.1
Tan, Wangshu – 6CC.2, 10CA.14
Tan, Wei Teck – 4MD.8, 7IM.11, 11IM.5
Tan, Zhaofeng – 4AC.15
Tanabe, Kiyoshi – 4CA.6, 8AM.4
Tanaka, Michitaka – 13TO.2
Tandon, Ankit – 13CA.3
Taneja, Ajay – 4AE.2, 10TO.2, 14CA.5
Taneja, Kanika – 12RA.2
Tang, Chin-Sheng – 8AE.9
Tang, Guiqian – 7MG.17, 14AC.4
Tang, Mengdi – 4AC.6
Tang, Min – 1CM.1, 3CM.6
Tang, Ning – 7TT.4
Tang, Quanxi – 11CA.3
Tang, Rui – 3MD.5
Tang, Shida – 7CB.8, 10DU.6
Tang, Xinying – 7ES.15
Tang, Ya – 13MG.2
Tanner, David – 4CA.20, 7AC.23, 11IM.6, 13SA.8
Tanner, Martin – 7IM.31
Tanzer, Rebecca – 7LC.13, 8LC.1, 10LC.13, 11LC.8, 12LC.4, 14LC.6
Tao, Jun – 4AC.23, 4RA.2
Tao, Shu – Plenary III, 7CD.21, 7TT.9
Tao, Ye – 4AC.31
Taoka, Tomohiro – 10CB.21
Targino, Admir Créso – 4CA.4, 9MG.2
Tarozzi, Leone – 14RA.4
Tarquinio, Daniel – 10CB.18

Tarun, Shiva – 4CA.2, 7AC.25
Tasoglou, Antonios – 2RA.4, 8AC.7
Tatum, Marcus – 11LC.5
Tauber, Christian – 9AP.7, 9IM.4, 10AP.2
Tavernini, Scott – 1MD.3
Tay, Li-Lin – 13CB.5
Taylor, Jill – 7IB.10, 7IB.23, 8IB.3
Taylor, Jonathan – 7LC.21, 11CA.2
Teich, Monique – 7AC.27, 14SA.1
Teinemaa, Erik – 7CB.6, 10CB.25
Teinilä, Kimmo – 9WA.6, 10SA.27
Telg, Hagen – 1IN.1
Temime-Roussel, Brice – 5RA.5, 7AC.40
Tentschert, Jutta – 4AE.16, 10HA.11
Terracciano, Kyle – 10LC.13
Terui, Yoshihiro – 10HA.1, 13TO.2
Tessema, Mathewos – 3MD.4
Tessier, Dominique – 1CM.5
Tettich, Frank – 9IM.4
Teuscher, Nadine – 10CB.14
Tezak, Matthew – 10BA.16, 11BA.1
Thai, Phong – 7AE.8, 10LC.1, 10LC.3
Thalman, Ryan – 6CC.3
Tham, Yee Jun – 6IM.5, 7AP.24, 10AC.8, 13AC.8
Thamban, Navaneeth M. – 2CA.1, 3RA.4, 11AC.3
Than Quoc An, Ha – 4CM.3
Thaokar, R.M. – 4AP.13, 9AP.2
Theobald, Mark – 4AM.23
Theresa, Haller – 4CA.12
Therkorn, Jennifer – 7IB.8
Therssen, Eric – 4CA.28, 11CB.3
Thewlis, Robert – 6IB.8
Thielen, Peter – 7BA.18
Thim, Carmen – 7CD.6, 10WA.3
Thimsen, Elijah – 3MS.5, 5MS.5, 10AP.3
Thines, Eckhard – 11BA.8
Thirumurugesan, Sanjeevi – 7LC.9
Thomas, Abin – 7ES.11
Thomas, Geb – 11LC.5
Thomas, Nirmala – 7BA.11, 10BA.2, 10HA.6
Thomas, Richard – 8IB.8, 9BA.1
Thomassen, Yngvar – 9WA.1
Thompson, Drew – 1CM.1
Thompson, Helen – 12MG.3
Thompson, Samantha – 4OF.3
Thomson, Kevin – 2CA.7, 10IM.2, 11CB.4, 13CB.4
Thomson, Mary Catherine – 11HA.6
Thornberry, Troy – 2RA.1
Thornburg, Jonathan – 7IB.22, 10LC.12
Thorne, Peter – 14HA.2
Thornhill, Kenneth – 7CC.13, 13CB.8
Thornock, Jeremy – 8IM.9
Thornton, Joel A. – 1AM.1, 5AC.1, 7AC.24, 8AM.2, 9AC.5, 10AC.13, 11AC.8
Thorsteinsson, Throstur – 8ES.4
Thota, Abhinav – 7AE.3
Thrall, Brian – 7CD.21, 7TT.9
Tian, Hezhong – 10MG.16
Tian, Jie – 7CB.7, 10SA.8
Tian, Lin – 1MD.8, 4AM.33, 10AP.10
Tian, Ping – 2IN.8
Tian, Xinjiao – 2CM.6
Tie, Xuexi – 4RA.15
Tien, Chi-Yu – 4IM.12, 4IM.20
Tiitta, Petri – 3OF.5, 5CM.3, 8AM.5
Tikkanen, Olli-Pekka – 5AP.3
Tikunova, Nina – 7IB.13
Tillmann, Ralf – 1AC.7, 4AC.15, 8AC.5
Tilly, Trevor – 5CD.5, 7BA.25, 10TO.10
Tilmes, Simone – 1AC.8, 1AM.5, 12AC.1
Timonen, Hilikka – 4RA.24, 7CB.11, 8CB.4, 8CB.7, 9WA.6, 10SA.27, 10SA.30, 12MG.3, 13SA.4
Timsina, Hemanta – 2AP.8
Tissari, Jarkko – 3OF.5, 11CA.5
Tivanski, Alexei – 7AC.8
Tiwari, Andrea – 3ED.2, 4IM.23, 6IB.7, 10IM.10, 10IM.11
Tiwari, Geetam – 7ES.12
Tiwari, S.B. – 10SA.25, 11AC.3
Tiwari, Shashi – 10SA.25, 11AC.3
Tiwari, Suresh – 2RA.7, 4AP.15, 4CA.13, 7MG.15, 10MG.3, 10MG.6, 10MG.17, 10SA.25, 11AC.3, 14CA.5
Tkacik, Daniel S. – 4CA.2
Tobaramseekul, Patchaya – 4MS.12
Tobler, A. – 11AC.3, 13SA.3
Tobo, Yutaka – 1RA.6, 3IN.4
Todea, Ana Maria – 3IA.2, 8LC.6
Toguchi, Soma – 10CB.22
Tohno, Susumu – 13TO.2
Tokarek, Travis – 12AC.5
Tomaz, Sophie – 7AC.25, 10SA.1, 14AC.1
Tomboulides, Ananias – 2IM.8
Tomlinson, Jason – 1AM.1, 9LC.2, 11AC.8
Tomoki, Uesawa – 10CB.13
Tomoto, Matheus A. – 12RA.6
Tong, Haijie – 5CD.6, 7AC.13, 9AC.1, 11HA.5
Tong, Rongbiao – 1AC.3
Tong, Yandong – 7AC.7, 9MG.5, 10SA.21, 12MG.8, 12SA.6, 14CA.1
Toniolo, Lucia – 7IA.10
Tonttila, Juha – 4AM.20, 6CC.4, 13MG.4
Toohey, Darin – 1IN.4
Toon, Owen – 1AM.5
Topping, David – 2AP.4, 5AP.1, 9AC.6, 10BA.7, 13MG.4
Toribio, Anthony – 6AC.9
Torok, Szabina – 10IM.6
Torremorell, Montserrat – 7BA.22
Torrents, Alba – 3CM.3
Torres Barrera, María del Carmen – 4AP.29
Torres-Delgado, Elvis – 11LC.8
Torrkulla, Jan – 7CB.11
Toth, Sarah – 10LC.19
Totura, Allison – 7IB.25
Toumasatos, Zisimos – 2IM.8
Toyoda, Michisato – 7MG.11
Toyozumi, Hiroyuki – 10CB.22
Török, Sandra – 10CB.7
Traikia, Mounir – 10BA.10
Tran, Steven – 7CB.14
Tran, Thi Minh Phuong – 6AE.5
Tranter, Robert – 1DU.7
Traub, Alison – 7CD.14, 14SA.3
Traversi, Rita – 2RA.6
Travis, Katherine – 12AC.1
Treangen, Todd – 6IB.4
Tremblay, Samantha – 10RA.10
Triantafyllopoulos, Georgios – 8CB.7
Triesch, Nadja – 14SA.1
Trimis, Dimosthenis – 10CB.14

Tripathi, Nidhi – 11AC.3
Tripathi, S.N. – 2CA.1, 3RA.4, 4AC.41, 4AM.3, 7AM.9, 7ES.11, 9MG.5, **10MG.17**, 10SA.25, **11AC.3**
Tripoli, Greg – 1IN.2
Tritscher, Torsten – 3ED.1, **7AP.39**, 8CB.8, **10IM.10**
Trivanovic, Una – 2CA.7, 10CA.8
Trojanowski, Rebecca – **10DU.3**
Trollmann, Kathrin – 2CM.7
Truong, Francois – 4CA.8, 13SA.7
Tryner, Jessica – 8LC.3, 11LC.2
Tsagaraki, Maria – 11HA.3
Tsai, Chao-Yang – 7TT.5
Tsai, Cheng-Hung – 7CB.16
Tsai, Chuen-Jinn – **Plenary IV**, 1CM.3, 2CM.3, 4CM.9, 4IM.6, 4IM.12, 4IM.20, 12IM.8
Tsai, De-Hao – **2MS.1**, **7MS.8**
Tsai, Hsien-Shiow – 10IM.4
Tsai, Jen-Hsiung – 7CB.15, 7CB.16, 10CB.5
Tse, Stephen – 1DU.8
Tsidulko, Marina – 9AM.4
Tsiodra, Irini – 7CD.19, 11HA.3
Tsoulou, Ioanna – 7LC.9
Tsubouchi, Koyu – 10CB.20
Tsui, William – **11AC.7**
Tsunoda, Chiryo – **4IM.27**, **4IM.28**
Tsurumaru, Hiroshi – 4OF.4
Tsyro, Svetlana – 4AM.23
Tu, Hao – **3MS.2**
Tu, Jiyuan – 1MD.8, 4AM.33, 10AP.10
Tuch, Thomas – 1IA.6
Tuduri, Ludovic – 1CM.5
Tuet, Wing-Yin – 7CD.18
Tuhovcak, Jan – 10HA.4, 11HA.2
Tumpey, Terrence – 6IB.6
Tunér, Martin – 7CD.11, 10CB.7
Turgeon, Jean-Gabriel – 7IB.11
Turgeon, Nathalie – 7BA.8, **7IB.11**, 10HA.16
Turner, Andrew – 4RA.4
Turner, Jay R. – 3CM.5, 4AE.14, 4RA.19, 10LC.9
Turpin, Barbara – 1AC.1, 1AC.4, 1AC.5, 7AC.25, 7AC.35, 14AC.1
Turquety, Solene – 14AC.2
Tursic, Janja – 14CA.1
Tuxen-Bettman, Karin – 6AE.7
Twohy, Cynthia – 1IN.4
Tyndall, Geoffrey – 1AC.8, 1OF.2
Türk, Michael – 3MD.6
Tyrrel, Sean – 13BA.7
Tzu-Ming, Chen – **7LC.12**
Udvardy, Joshua – **7CM.2**
Uebel, Christine – 11BA.4
Uffman, Emilie – 11HA.6
Ugland, Duncan – 3AC.1
Uin, Janek – 1RA.2, 1RA.3, 1RA.7, **10RA.2**
Ukkonen, Ari – 4IM.22
Ulan, Mansurov – 6AM.6
Ulevicius, Vidmantas – 9CA.6, 10SA.26
Ullrich, Romy – 2IN.7, 4IN.2, 4IN.9
Umehara, Yuki – 3MD.3
Umo, Nsikanabasi – **2IN.7**
Uñac, Rodolfo Omar – 13AP.8
Uner, Necip Berker – **5MS.5**
Urch, Bruce – 10LC.11
Uruci, Petro – 8AC.7
Usenko, Sascha – 4AC.16
Utinger, Battist – 11HA.4
Uvarova, Lyudmila – 5AM.4
Uzu, Gaëlle – 14HA.5, 14HA.6
Vadali, Monika – 8LC.7
Vaillancourt, Robert D. – 1RA.1
Vaishya, Aditya – 3AC.4, **7ES.8**
Valentini, Sara – 10SA.31
Valenzuela, Anthony – 6CD.9, 7CD.9
Valenzuela, Antonio – **7AC.17**
Valli, Gianluigi – 10SA.31, 14CA.3
Vallièrès, Cécile – 7CB.3
Valorso, Richard – 8AM.1
van der Zwaag, Till – 12CB.1
van Hout, René – 14AP.2
van Pinxteren, Dominik – 7AC.27, 14SA.1
Van Rooy, Paul – **14AC.5**
Van Zyl, Lizette – 11LC.2
Vana, Milan – **4CA.3**
Vance, Marina – **4IA.8**, 10LC.19
Vander Wal, Randy – **4DU.4**, 5CA.4, **5MS.8**, **7CB.13**, **7CD.8**, 9AM.7, **13CB.6**
Vanhanen, Joonas – **7CB.20**, 8CB.4, 10IM.15
Vanscheeuwijck, Patrick – 4MD.8, 7IM.11, 11IM.5
Vargas, Angela – **4CA.34**, 11MG.6
Vargas, Victor – 7CD.1
Vas, Carl – 11HA.7
Vasconcellos, Perola – 7CD.18
Vasilatou, Konstantina – 4CA.16, **10CA.2**, 10CB.19, 10IM.6
Vasile, Simule Calin – 2IA.1
Vasquez, Yeanice – 9WA.6
Vats, Pawan – 9MG.5, 11AC.3
Vaughan, Adam – 10MG.12
Vazquez Pufleau, Miguel – **3MS.5**, **10AP.3**
Vazquez-Pufleau, Miguel – **8IM.5**
Väkevä, Minna – 7CB.20, 8CB.4
Vecchi, Roberta – **10SA.31**, 14CA.3
Veghte, Daniel – 1IN.8, **1RA.8**, 4IN.14, 10RA.15, 12AC.3
Vehkamäki, Hanna – 4ED.6, 4IN.18, 5AP.7
Veillette, Marc – 7BA.8
Vejerano, Eric – 6IB.7
Velarde, Fernando – 13AC.8
Venecek, Melissa – 1AM.2
Venezia, Rebecca – 2IN.1
Venkataraman, Chandra – 6AM.2, 12MG.2
Vercruyssen, Chloé – 4AP.17
Veres, Patrick – 5AC.1
Verma, Puneet – **8CB.3**
Verma, Puneet kumar – **7AC.33**
Verma, Shubha – **4CA.36**, **5AM.3**
Verma, Vishal – 6CD.5, 7CD.1, 7CD.7, 7CD.15
Vermeulen, Roel – 6AE.7
Verrati, Kathleen – 7BA.18
Vesala, Hannu – 7CB.11, 8CB.4
Vesala, Timo – 4AC.22, 10AC.2
Vezzulli, Luigi – 12BA.8
Viana, Mar – 9WA.8
Vicente, Ana – 4CA.9
Vicente, Estela – 4CA.9, 4IA.3, 4IA.5, 7IA.4
Vidales, Ana María – **13AP.8**
Videen, Gorden – 7BA.4, **10AP.1**, 11AP.4, 11AP.8

Viegas, Carla – 2IA.7
Vieno, Massimo – 4AM.17
Viisanen, Yrjö – 4IN.19
Vikesland, Peter – 6AC.1
Villamil, Felipe – 14SA.2
Villeneuve, Eric – 10SA.1, 10SA.5
Vimont, John – 7AC.39
Vinatier, Virginie – 11BA.2
Vinoj, Velu – 7ES.17
Violaki, Kallioipi – 11HA.3
Virkutyte, Jurate – 11BA.4
Virtanen, Annele – 4AC.13, 4AC.29, 4IN.19, 4OF.3, 4OF.8, 5AP.3, 6IM.9, 7AC.15, 7AC.19, 8AM.5, 9AC.7, 14RA.4
Visez, Nicolas – 4AC.34
Visileanu, Emilia – 10HA.11
Vitale, Vitto – 7AP.29
Vitillo, Nicole – 7CB.8, 7CD.17, 10DU.6
Vivanco, Marta – 4AM.23
Viviani, Stefano – 1RA.4
Vivier, Florence – 4RA.30
Vizuete, William – 1AC.1, 1AC.4, 7AC.11, 9AC.5
Vlachou, Athanasia – 13SA.3, 14CA.1, 14HA.5
Vlavakis, Petros – 10CB.14
Vo, Evanly – 8AE.7, 10IM.5
Vodička, Petr – 4MS.10, 10SA.15, 10SA.28
Vogado, Filipa – 5RA.2
Vogel, Alexander Lucas – 13AC.6, 14HA.5
Vogel, Ulla – 7CD.11, 7CD.20
Vojkovic, Marin – 4CA.28, 8CB.8, 9AP.8
Volckens, John – 3ED.2, 8LC.3, 9CA.1, 10WA.4, 11LC.2, 12CB.6, 14LC.3
Volkamer, Rainer – 7AP.24
Vollertsen, Jes – 2IA.1
Volpi, Francesca – 9CA.6
von Löwis, Sibylle – 8ES.4
von Salzen, Knut – 7ES.16
Vonwiller, Matthias – 13CA.4
Voronova, Viktoria – 7CB.6
Vratolis, Stergios – 10LC.14, 14CA.2
Vu, Thai Phuong – 4IA.2
Vu, Van Tuan – 10SA.29
Vyskocil, Jonathan M. – 7BA.20, 7IB.11
Wada, Risei – 7BA.24
Wagener, Sandra – 4AE.16, 10HA.11
Wagner, Andrea C. – 7IM.24, 10AC.9, 13AC.4
Wagner, Nick – 13CA.1
Wagner, Paul E. – 2AP.7, 9AP.7
Wagner, Robert – 2IN.7, 4AM.7
Wagstrom, Kristina – 9AM.1, 10LC.13, 12SA.3
Wahner, Andreas – 1AC.7, 4AC.15, 4AC.32
Wainman, Thomas – 7CB.8, 7CD.17, 10DU.6
Wakgari, Amente Dereje – 4RA.16
Walenga, Ross – 1MD.1
Walhout, Emma – 5IM.7
Walker, David – 12IM.7
Walker, Jim – 6MS.6
Walker, John – 10RA.7
Walker, Katherine – 12MG.2
Walker, Michael – 1IA.3, 3OF.2, 4CA.20, 5AP.5, 7AC.36, 8AC.2
Wallace, Henry – 4AC.16, 8AC.9, 10IM.8, 10SA.20
Wallace, Meghan – 8IB.5
Wallin, Håkan – 7CD.20
Wallis, Christopher – 6CD.9, 7CD.9
Walter, David – 2AP.1, 4AP.21, 9AC.1, 12AP.2, 12BA.4
Walz, Nathan – 7CB.8, 10DU.6
Wan, Hui – 3IN.3
Wan, Jianlong – 13IM.2
Wang, Baolin – 4AC.14
Wang, Bin – 4MS.22
Wang, Bingbing – 4IN.14, 9AC.2, 12AC.3
Wang, Chih-Te – 4CM.5, 4CM.6
Wang, Chuji – 5IM.3, 6AC.5, 7BA.4, 11AP.8
Wang, Daniel – 12RA.6
Wang, Dongfang – 11MG.7
Wang, Dongsheng – 4RA.10
Wang, Dongyu S. – 2AC.1, 4AC.43, 8MG.6, 11MG.8
Wang, Fei – 2IN.8
Wang, Feng – 7LC.16, 9CA.8
Wang, Gehui – 4AC.4, 4RA.17
Wang, Hai – 1DU.1, 11CB.1
Wang, Haiming – 14DU.6
Wang, Haiyang – 4MS.13
Wang, Hao – 2CM.8
Wang, Hongli – 11MG.7
Wang, Hongmin – 6MS.9
Wang, Houmao – 10IM.3
Wang, Hui – 4IM.11
Wang, Jia – 14DU.5
Wang, Jia-Hong – 4CM.6
Wang, Jian – 1AM.1, 1IN.8, 1RA.3, 1RA.7, 1RA.8, 2AP.1, 4AP.21, 6CC.3, 8AM.2, 11AC.8, 12IM.6
Wang, Jing – 2CA.6, 10HA.9, 10TO.3, 13TO.5
Wang, Jinjun – 7LC.16
Wang, Jon M. – 8AE.1, 10SA.4, 4CA.29, 14SA.3
Wang, Jun – 9WA.7, 10WA.7
Wang, Junfeng – 7AC.14, 7AP.30, 10MG.14
Wang, Lili – 14AC.4
Wang, Lin – 1OF.4, 7MG.13, 7MG.24, 11MG.7, 13AC.2
Wang, Lin-Chi – 4AM.8, 10CB.4
Wang, Lina – 1IA.6, 7AC.27
Wang, Ling – 7ES.15
Wang, Liwei – 7AC.7
Wang, Louis – 7MS.4
Wang, Mengda – 11CA.3, 10CA.7
Wang, Minfei – 11BA.5
Wang, Mingjin – 4AC.15
Wang, Mingyi – 1OF.4, 10AC.6, 10AC.10, 10AC.15, 11MG.7, 13AC.6
Wang, Peng – 2CM.4, 4AM.31
Wang, Pengfei – 10RA.8
Wang, Qiaoqiao – 12AP.2
Wang, Qingqing – 5AC.6, 7AC.14, 7MG.20, 9MG.4
Wang, Qiongqiong – 10SA.7
Wang, Qiyuan – 4CA.10
Wang, Rong – 5AM.3
Wang, Ruyu – 7MG.7
Wang, Sheng-Hsiang – 3AC.5
Wang, Shi-Bo – 10IM.4
Wang, Shie-Yuan – 14LC.5
Wang, Shih-Min – 10SA.11
Wang, Shuang – 11CA.8
Wang, Shun Yao – 4AC.31

Wang, Shuxiao – 5AC.8, 7MG.10, 7MG.26, 12CB.3, 12MG.2
Wang, Wei-Ning – 3MS.2, **4MS.1**, 4MS.3
Wang, Weijia – 2IN.3
Wang, Weiwei – 4AM.8
Wang, Wenjie – 10SA.8
Wang, Wenyu – **14DU.3**
Wang, Xianyu – 7AE.8
Wang, Xiaoliang – **9CA.3**
Wang, Xinke – 11MG.7
Wang, Xinye – 7IB.15
Wang, Xuebin – **2CM.5**, **14DU.1**, 14DU.5
Wang, Yang – **1DU.3**, 4IM.8, 4MS.20, 8IB.5, 10AP.3, **12IM.6**
Wang, Yeuh-Bin – 7LC.27, 9LC.4, 10LC.2
Wang, Yi – 2CM.1, 5CM.4, 5CM.5, 7AM.10
Wang, Yifan – **5CM.4**, 5CM.5
Wang, Yixiang – **7CD.15**
Wang, Yonghong – **2AC.2**, 4AC.22, 6IM.2, 7MG.13, 7MG.24, 10AC.7, 13AC.2
Wang, Yu – 7AC.27, 12RA.4
Wang, Yu-Chau – 4CM.5
Wang, Yuchen – 1AC.3
Wang, Yuesi – 7MG.17, 8MG.8, **14AC.4**
Wang, Yuhang – 4AM.30, 4CA.26
Wang, Yuxuan – 5AC.8
Wang, Yuying – 4AP.6, 7AC.14
Wang, Zehua – 5IM.6, **13CB.3**
Wang, Zhiwei – 4DU.7, 10DU.1
Wang, Zhong-Min – **7LC.11**
Wang, Zifa – 5AC.6, 7AC.14, 7MG.20, 9MG.4
Wang, Zuocheng – 10BA.2
Wanjura, John – 3CM.3
Ward, Ryan – 5CD.5, **10TO.10**
Waring, Michael – 1IA.1, 4AE.13
Warnecke, Ragnar – 12CB.1
Warneke, Carsten – 13CA.1, 14AC.1
Warner, Digby – 8IB.7
Washenfelder, Rebecca – 13CA.1
Wathore, Roshan – 4IA.7, 12CB.5
Watson, John – 4CA.13, 9CA.3
Watson, Thomas – 1RA.2, 1RA.3, **7ES.10**
Watts, Adam – 8ES.7, 10DU.4
Watts, Benjamin – 9AC.1
Weakley, Andrew – 4CA.27, 7AC.41, 7IM.21, 13CA.6
Weber, Alfred – 3MS.1
Weber, Alfred P. – **3MD.6**, **4MS.17**, 4MS.18, 4MS.19, **6MS.8**
Weber, Angela M. – 6IB.8
Weber, Bettina – 11BA.8, 12BA.4
Weber, Rodney J. – 4CA.20, 4CA.26, 5AC.2, 5AM.1, **5CD.1**, **7AC.23**, 7CD.13, 7CD.18, 7IM.23, 10TO.7, 11HA.3, 13SA.8
Weeber, Rudolf – 4AM.10
Weeks, Jon – 14BA.2
Wegener, Robert – 4AC.15
Wehner, Birgit – 1IA.6, **1RA.4**, 4AP.22, **7TT.13**
Wei, George – 10DU.3
Wei, Haoran – 6AC.1
Wei, Mingzhe – 7AM.11
Wei, Shijun – 7IM.17, **7IM.18**
Weibring, Petter – 11MG.1
Weichenthal, Scott – 7CD.14, 14SA.3
Weidler, Peter G. – 2IN.7, 4IN.2
Weilong, Liu – 6AE.2, 7AE.6
Weinbruch, Stephan – 9WA.1
Weindl, Patrick – 6CD.6
Weingartner, Ernest – 4CA.16
Weinhold, Kay – 1IA.6, 1RA.4
Weinzierl, Bernadett – 8ES.2, 13CB.8, 14RA.2
Weis, Cheyne – **7AP.31**
Weis, Frederik – **10IM.7**, **10LC.18**
Weis, Johannes – 1RA.8, 4IN.14, 12AC.3
Weisel, Clifford – 10HA.6
Weiss, Maximilian – 10IM.7, 10LC.18
Weizheng, Han – 10HA.8
Weiß, Carsten – 6CD.7
Wellons, Matthew – 12IM.4
Welsh, Hannah G. – 3AC.6
Welti, André – **4IN.19**
Welz, Oliver – 1RA.4
Wen, Chang – 14DU.3
Wendt, Eric – **8LC.3**, 11LC.2
Weng, Weiguo – 2CM.1, 7AM.10
Wennberg, Paul – 5AC.1, 7MG.8
Wenzel, Fekix – 5RA.3
Wenzlaff, Daniela – 7CD.6, 10WA.3
Werden, Benjamin – **3RA.2**, 4CA.2, 4CA.19, 8ES.6
Wernis, Rebecca – **10IM.13**
West, Matthew – 6TT.1, 7TT.6
Westerdahl, Dane – 12LC.5
Wex, Heike – 1IN.5, 2IN.7, **4IN.6**
Wexler, Anthony S. – **6AC.9**, 6CD.9, 6IB.3, 6IM.3, 7CD.9
Whalley, Lisa – 9MG.8
Wheeler, Michael – 6CC.8, 7ES.16
Wheelus, Robin – **4MS.11**, 6MS.5, **7MS.11**
Whitaker, Ross – 10LC.8
Whitby, Corinne – 7BA.7, 10BA.23
White, John – 7LC.5
White, John Kerr – **13BA.1**
Wichmann, Volker – 13CB.4
Wickramasekara, Samantha – 10HA.10
Wickware, Brett – 12AC.7
Widell, Anders – 7IB.19
Wiedensohler, Alfred – 4AP.22, **1IA.6**, 7AC.27, 10IM.6, 13SA.5, 14SA.1
Wiedinmyer, Christine – 7AE.3, 7CB.9
Wiegand, Harald – **13TO.8**
Wierzbicka, Aneta – 1IA.2, 2IA.6, **4IA.13**, 11HA.8
Wietzoreck, Marco – 5CD.6
Wiggers, Hartmut – 2MS.2
Wilcox, Eric – 8ES.7
Wild, Oliver – 7AC.27
Wildt, Jürgen – 1AC.7, 4AC.14, 4AC.15, 4AC.32
Wilkinson, Jonathan – 6CC.4
Williams, Alan – 2IN.7
Williams, Brent – 1IA.3, 3OF.2, 4CA.20, 4RA.19, 5AP.5, 7AC.36, 8AC.2, 10AP.7, 10CA.3, 10CA.12, 10HA.20, 10LC.9, 11CA.4, 12IM.1
Williams, Daniel – 2IN.6
Williams, David – 7LC.21
Williams, Gregory – **7IB.7**, 7IB.10
Williams, Leah – 1OF.7, 4OF.2, 7IM.14, 8LC.8, 13CA.2
Williams, Paul – **3ED.1**, 4IN.9, 4RA.4, 11CA.2
Williams, Ron – 7LC.1, 7LC.2, 7LC.5
Williams, Walt – **2CA.3**
Williamson, Christina – 1AM.5, 2IN.4, **2RA.3**, 5AM.8, 8ES.2, 11CA.1

Williamson, Patrick – 4MD.2
Willis, Megan – 12AC.5
Willoughby, Rose – 7AC.17
Wilson, Jacqueline – 8AM.2
Wilson, Jake – 5CD.6
Wilson, Kevin – 1AC.2, 1IA.7, 6AC.3, 6AC.7
Wilson, Oliver – 6TT.7
Wimmer, Clara – 6CD.6
Wind, Peter – 4AM.23
Wingert, Loïc – 1CM.5, 9WA.3
Winijkul, Ekbordin – 7AM.19
Winkler, Paul M. – 2AP.3, 2AP.7, 5IM.5, 8IM.5, 9AP.5, 9AP.7, 10AP.2, 14RA.2
Winstead, Edward – 7CC.13, 13CB.8
Wirgot, Nolwenn – 10BA.10, 11BA.2
Wisthaler, Armin – 1RA.1, 6IM.7, 7IM.29, 7MG.8, 8AC.5, 11HA.1, 12CB.3
Wlokas, Irenaeus – 2MS.2
Woell, Christof – 2IN.3
Wofsy, Steven – 12AC.1
Wojtak, Jeremy – 1DU.5
Wolf, Martin – 3IN.6, 4IN.1, 4IN.15
Wolff, Cory – 1IN.4
Wolff, Stefan – 2AP.1, 4AP.21
Wollmer, Per – 1MD.4, 4MD.5
Womack, Caroline – 13CA.1
Wonaschuetz, Anna – 6CC.1
Wonderlich, Elizabeth – 6IB.9
Wong, Bryan – 7AC.28
Wong, Jenny P.S. – 5CD.1, 10TO.7, 11HA.3
Wong, Yee Ka – 2CA.5
Woo, Chang Gyu – 4IA.6, 7CM.6, 7CM.8, 7CM.10, 7IM.35
Woo, Joseph – 7AC.26, 11AC.7
Woo, Sang-Hee – 3CM.4, 7IA.1
Wood, Ezra – 1OF.1, 4CA.2, 11IM.6
Wood, Rob – 1RA.3
Wood, Robin – 8IB.7
Worathanakul, Patcharin – 4MS.12
Workman, David – 4IM.29
Wormhoudt, Joda – 13CA.2
Worrall, Stephen – 7AC.14, 9MG.8
Worsnop, Douglas – 1OF.1, 1OF.7, 2AC.6, 3IN.6, 4AC.22, 4OF.2, 4OF.3, 4OF.8, 5AC.6, 6IM.9, 7AC.14, 7AC.19, 7AP.24, 7AP.40, 8AC.1, 8AC.8, 8AM.2, 9AC.5, 9MG.4, 9MG.8, 10SA.12, 11CB.8, 11MG.2, 12SA.1, 13AC.8
Wortham, Henri – 5RA.5
Wright, Justin – 1DU.2, 4MS.5
Wu, Bingbing – 11LC.6
Wu, Bobo – 10MG.16
Wu, Chang Yu – 4ED.1, 4ED.4, 4ED.8, 5CD.5, 7BA.19, 7BA.21, 7BA.25, 7CM.2, 10TO.10
Wu, Cheng – 1AC.7, 2CA.4, 4AC.32, 9AC.7, 10AC.13
Wu, Chia-Chin – 7CB.15
Wu, Di – 2CM.2, 4CA.11, 7AC.6, 7MG.26, 10TO.5
Wu, Dui – 2CA.4
Wu, Hao – 4AP.6
Wu, HuiHui – 11CA.2
Wu, Jihong – 1MD.2
Wu, Jun – 7AM.3
Wu, Kai – 4IM.16
Wu, Li – 4AM.31
Wu, Mingxuan – 4IN.12
Wu, Pengping – 7ES.15
Wu, Tianyang – 6AM.8
Wu, Xinxin – 7AM.11
Wu, Yangzhou – 10MG.14
Wu, Ye – 4IM.11
Wu, Yuh-Shen – 10SA.11
Wu, Yunfei – 4RA.2
Wu, Zhijun – 7LC.19, 12RA.4, 13MG.1, 13MG.4, 13SA.5
Wuerffel, Tres – 8LC.7
Wurth, Marilyn – 7CB.8, 7CD.17, 10DU.6
Wylie, Dennis – 3IA.3
Wyslouzil, Barbara – 7AP.32, 7AP.36, 9AP.6
Xia, Qianhui – 4IM.18
Xia, Tian – 7BA.22
Xiang, Rongbiao – 4AC.6
Xiao, Mao – 4AC.20, 10AC.6, 10AC.10, 13AC.6
Xiao, Shan – 11MG.7
Xiao, Yao – 13MG.1
Xiao, Zhang – 4MS.24
Xiaojuan, Huang – 8MG.8
Xie, Conghui – 5AC.6, 7AC.14
Xie, Mingjie – 10RA.7
Xie, Mingliang – 4AM.1
Xie, Shaodong – 13MG.1
Xie, Yisong – 4AP.8
Xing, Jia – 1AM.6
Xing, Yi – 1CM.3
Xinling, Li – 8CB.2
Xiong, Fulizi – 7LC.22
Xiong, Jin – 4MS.22
Xiong, Youyou – 10BA.2
Xiu, Meng – 7AE.8
Xu, Fanfan – 13TO.4
Xu, Fuyuan – 9WA.4
Xu, Hanbing – 7AC.21
Xu, Hongmei – 7MG.2
Xu, Li – 6IM.8
Xu, Lu – 12RA.8, 13SA.8
Xu, Minghou – 2CM.8, 14DU.3
Xu, Qingcheng – 7MG.10
Xu, Weiqi – 4CA.20, 5AC.6, 5AC.8, 7AC.14, 7IM.23, 7MG.20, 9MG.4
Xu, Wen – 4CA.2, 7AP.40, 12SA.1
Xu, Xianmang – 2CM.2, 4CA.11, 7AC.6
Xu, Ying – 3IA.3
Xu, Yishu – 2CM.8
Xu, Yiyi – 11HA.8
Xu, Zhengning – 2AC.6
Xu, Zuwei – 13IM.2
Xue, Jian – 12CB.2
Xue, Mo – 2IM.4, 4AC.10, 7MG.24, 7MG.26, 13CB.2
Xuefeng, Xu – 6AM.9
Yacovitch, Tara – 4CA.2, 8AE.8
Yadav, Shweta – 2IN.1
Yahaya, Noor Zaitun – 5AM.7
Yamada, Hiroyuki – 8CB.6
Yamane, Martin – 3MS.5
Yamasaki, Nene – 10LC.16
Yan, Chao – 2AC.2, 2AC.6, 2AP.3, 4AC.22, 4AC.37, 7MG.13, 7MG.24, 9AM.8, 10AC.7, 10AC.9, 11MG.7, 13AC.1, 13AC.2
Yan, Peng – 4AP.6
Yan, Ping – 4AM.8
Yan, Yong – 14DU.5
Yang, Bo – 6TT.5
Yang, Bo-Chieh – 10LC.2

Yang, Da – 7IM.20
Yang, Dongsen – 8IM.8
Yang, Fenhuan – 12LC.5
Yang, Gan – 7MG.13, 7MG.24, 13AC.2
Yang, Hsi-Hsien – 10CB.4
Yang, Huadong – 7IA.8
Yang, Huan – 7AP.22
Yang, Hui – 7AC.1
Yang, Jeff – 3ED.6
Yang, Ji-Seok – 10WA.5, 10WA.6
Yang, Jiacheng – 7CD.12, 8CB.1, 10CB.1, 10CB.26
Yang, Jie – 9AM.2
Yang, Jing – 7TT.2
Yang, Liudongqing – 7AC.3
Yang, Lu – 6MS.9, 11MG.3
Yang, Michael – 1MD.3
Yang, My – 7BA.22
Yang, Ralph – 1CM.3
Yang, Shuo – 10MG.5
Yang, Tzu-Ting – 10SA.11
Yang, Xuan-En – 1CM.6
Yang, Xudong – 10DU.5
Yang, Yi-Cyun – 7LC.27
Yang, Yong – 6MS.3
Yang, Zhengda – 5CM.4, 5CM.5, 7AM.10
Yang, Zhiwei – 4DU.3
Yang, Zijiang – 3CM.3
Yao, Lei – 10F.4, 11MG.7
Yao, Maosheng – 6CD.8, 7IB.18, 10BA.3, 10TO.3, 11BA.5, 11HA.5, 14BA.3, 14BA.6, 14HA.3
Yao, Qi – 3CM.3, 7IB.14
Yao, Xiaohong – 12RA.3
Yao, Yu – 7AM.14
Yarwood, Greg – 10SA.10
Yasmin, AboEl-Fetouh – 10RA.10
Yasumoto, Koji – 7IA.11, 10CB.20
Yatavelli, Laxmi Narasimha – 4OF.3
Yawar, Mohammad – 10HA.18
Yazawa, Takumi – 7BA.24
Ydstie, Erik B. – 1AM.8
Ye, Dezhuang – 4MD.3
Ye, Dongni – 5CD.1
Ye, Jianhuai – 4AC.31, 4AP.17, 9AC.4, 12RA.6
Ye, Jin – 10BA.5
Ye, Penglin – 7AC.14, 13AC.6
Ye, Qing – 6AE.6, 7AE.4, 10AC.15, 13AC.6
Ye, Xingnan – 7MG.7
Yeager, John – 7IB.7, 7IB.10, 8IB.3
Yeager, Ray – 4AE.14
Yee, Lindsay – 1AC.1
Yehliu, Kuen – 4DU.4
Yen, Yu-Chuan – 7IB.16
Yenigun, Orhan – 3ED.6
Yeon, Je Hyeon – 4DU.8
Yermakov, Michael – 7IB.3, 9WA.5, 11LC.6
Yin, Likun – 1CM.3
Yin, Rujin – 7MG.13, 13AC.2
Yin, Rujing – 7MG.24
Ying, Qi – 4AM.31, 5AM.5, 7MG.1, 10HA.7, 13MG.2, 14CA.6
Yip, Pearl – 1CM.5
Yli-Juuti, Taina – 4OF.8, 5AP.3, 7AC.19, 10AC.13, 14RA.4
Yli-Ojanperä, Jaakko – 4IM.4, 4RA.24
Yli-Pirilä, Pasi – 3OF.5, 4AC.13, 5CM.3
Ylisirniö, Arttu – 4AC.13, 4AC.29, 4OF.8, 6IM.6, 7AC.19, 7AP.24
Yokelson, Robert J. – 2CA.8, 3RA.2, 11CA.6, 13CA.1, 14AC.1
Yon, Jerome – 4CA.28, 12AP.5, 12AP.6
Yonemichi, Takuto – 4AP.2, 7IM.4
Yoo, Kyung-Hoon – 10WA.5, 10WA.6
Yoon, Hwa Hyun – 3CM.4, 7IA.1
Yoon, Jong-Pil – 7CM.10
Yoon, Nana – 10SA.9
Yoon, Subin – 4AC.16
Yordanova, Petya – 12BA.4
York-Marini, Rachel – 10SA.19
Yoshida, Atsushi – 3IN.4
Yoshihide, Ota – 10CB.13
Yoshikazu, Teraoka – 10CB.13
Yoshino, Ayako – 4AP.1
Yoshizue, Momoka – 1RA.6
You, Changfu – 14DU.6
You, Hongyu – 7CD.14
You, Xiaoqing – 11CA.3, 10CA.7
Young, Duick – 7LC.8
Young, Thomas – 12CB.2
Youping, Li – 12MG.5
Yousefi, Hossein – 4RA.6
Yu, Chenjie – 7AP.28, 7AP.30
Yu, Dong-Gil – 4AC.30, 4OF.7
Yu, Fangqun – 4AC.25, 5AM.4, 5AM.8, 10AC.14, 10RA.4
Yu, Haoran – 7CD.7
Yu, Jian Zhen – 1AC.3, 2CA.4, 2CA.5, 4AC.31, 10SA.7
Yu, Kuo-Pin – 1CM.6
Yu, Lu – 12AC.4
Yu, Mingzhou – 4AM.9
Yu, Nu – 7AM.3
Yu, Pengfei – 1AM.5, 2IN.4, 2RA.1, 2RA.3, 8ES.2
Yu, Qian – 7MG.26
Yu, Shaocai – 4AC.27
Yu, Xin – 1AM.2
Yu, Yingli – 6CC.2, 10CA.14
Yu, Zechen – 4ED.8, 6TT.2
Yu, Zhenhong – 8IM.4, 10CA.1
Yuan, Bin – 7AC.7, 13CA.1
Yuan, Wen – 10MG.10
Yuan, Xinjie – 7TT.2
Yubero, Eduardo – 10RA.1
Yue, Yang – 10TO.3
Yum, Seong Soo – 7AC.29, 9MG.3
Yun, Jingwei – 4IN.16
Yunesian, Masud – 14SA.5
Yurteri, Caner U. – 10HA.14, 11HA.7
Yusuke, Fujii – 4CA.12
Yuta, Kamiya – 4CA.12
Yuzhu, Xie – 8MG.8
Zachariah, Michael – 4ED.2, 4MD.7, 4MS.13, 6MS.3, 7AP.26, 12AP.4
Zagaynov, Valery – 4AP.28
Zaidan, Martha Arbayani – 1AM.4
Zaidi, Zona – 6AE.2, 7AE.6, 7MG.6
Zainab, Irfan – 6AE.2, 7AE.6, 7MG.6
Zakoura, Maria – 7AM.4
Zamora, Misti – 7LC.22
Zanatta, Marco – 6CC.9, 13CB.5
Zangmeister, Christopher – 4RA.21, 8IM.1, 11AP.2, 11IM.4
Zapadinsky, Evgeni – 4IN.18, 5AP.7
Zapletal, Milos – 7TT.10
Zarling, Darrick – 7BA.22

Zarmpas, Pavlos – 4CA.30
Zaveri, Rahul – 6CC.3, **8AM.2**
Zawadowicz, Maria – 4IN.1, **4IN.15**, 5IM.1, **10AC.12**, 13BA.8
Zaytsev, Alexander – 4AC.19, 11AC.6
Zelenyuk, Alla – 1AM.1, 4AC.24, 4IN.13, 4IN.14, 5AC.7, 6CC.3, 7CD.21, 7TT.9, 8AM.2, **11AC.8**
Zeller, Kurt – 5MS.8
Zeman, Kirby – 1MD.2
Zeng, Jiafa – **4IM.16**, 6IM.3
Zeng, Limin – 12RA.4, 13MG.1
Zeng, Linghan – **4CA.26**
Zeng, Zhexi – 7AC.25
Zerrath, Axel – 7AP.39, **10IM.11**
Zerriffi, Hisham – 4IA.7, 12CB.5
Zha, Qiaozhi – 2AC.7, **4AC.22**, 10AC.7, **10AC.8**, 10AC.13, 13AC.8
Zhai, Jinghao – 4AP.17
Zhang, Aoxing – **4AM.30**, 4CA.26
Zhang, Bo – 1RA.5, 2RA.2
Zhang, Bowen – 1OF.4, 11MG.7
Zhang, Chen – 3CM.3, 6CD.5
Zhang, Chenchong – **10AP.9**
Zhang, Dong – 4CA.5
Zhang, Fang – 4AP.6
Zhang, Ge – 9WA.4
Zhang, Hongliang – 4AE.6, 4AM.5, 4AM.31, 4RA.5, **5AM.2**, 7AE.2, 7MG.1, 7TT.2, 10HA.7, 10RA.8, 13BA.2, 13MG.2
Zhang, Huang – **4IM.8**, **14AP.6**
Zhang, Jie – 2IA.5, 4CA.33, 7AC.18, 10HA.7, 11AC.1, **11AC.4**
Zhang, Junfeng – 11LC.7
Zhang, Junhua – 7ES.16, 9AM.3
Zhang, Junke – 7MG.17
Zhang, K. Max – 3CM.5, 4IM.11, 6TT.5, **14CA.4**
Zhang, Kai – **3IN.3**, 4IN.12
Zhang, Leiming – 4AC.23, **4RA.2**, **12RA.3**
Zhang, Lu – 7AM.3
Zhang, Mengzhu – 7BA.1
Zhang, Qi – **12AC.4**, 13AC.3, 13CA.2
Zhang, Qian – **10TO.7**
Zhang, Qiang – 12LC.2
Zhang, Qixing – **7LC.16**, 9CA.8, 10CB.17, 13TO.6
Zhang, Renjian – 4RA.2
Zhang, Renyi – 7MG.22
Zhang, Shaojun – **4IM.11**
Zhang, Shuai – 4MS.22
Zhang, Shuping – **1AM.6**
Zhang, Sujian – 12BA.2
Zhang, Ting – 10TO.3, 11HA.5, **14HA.3**
Zhang, Wendy – 7ES.16
Zhang, Xia – 7IA.8
Zhang, Xiangyu – 6CD.8, 10TO.3, 11HA.5
Zhang, Xiaole – **2CA.6**
Zhang, Xiaolu – 2CA.2
Zhang, Xinqiu – 13MG.3
Zhang, Xiuhui – **4AC.46**
Zhang, Xuefeng – 5CM.4
Zhang, Yangyang – 4AE.1
Zhang, Yanjun – 4AC.37, 6IM.2
Zhang, Yao – **4AC.18**
Zhang, Yilong – 10CB.7
Zhang, Ying – **4AP.8**
Zhang, Yingjie – 9MG.4
Zhang, Yinping – 11LC.7
Zhang, Yixiang – 5IM.6
Zhang, Yiyang – **1DU.8**, 7AM.11, 14AP.6
Zhang, Yong – **10SA.8**
Zhang, Yongming – 7LC.16, 9CA.8, 10CB.17, 13TO.6
Zhang, Yuanhang – 12RA.4, 13MG.1
Zhang, Yuanyuan – 7IM.19, **7LC.23**
Zhang, Yue – 3IN.6, 4AC.5, 7AC.11, **7AP.40**, **9AC.5**
Zhang, Yufeng – 2CM.8
Zhang, Yuling – 4IM.16
Zhang, Yunhong – **4AC.1**, 7AC.1
Zhang, Yunjiang – **4CA.8**, 10SA.5, 13SA.7
Zhang, Zhenfa – 1AC.1, 1AC.4, 3IN.6, 7AP.40, 9AC.5
Zhang, Zhisheng – 4AC.23, 4RA.2
Zhangquan, Zhang – 10SA.3
Zhao, Changsui – 4MD.10, 10AP.6
Zhao, Chunsheng – 6CC.2, 10CA.14
Zhao, Dan – 6AE.4
Zhao, Defeng – 1AC.7, 4AC.14, **4AC.15**
Zhao, Delong – 2IN.8
Zhao, Haibo – 13IM.2
Zhao, Haoran – 6AE.4
Zhao, Jian – **5AC.6**, 7AC.14, 7MG.20, 8MG.9, 9MG.4
Zhao, Jianan – 4AM.2, 4MD.2
Zhao, Jianguyue – 1IA.6
Zhao, Jun – **7AC.21**
Zhao, Ran – 1OF.6, 2AC.8, 4AC.27
Zhao, Ranran – **9CA.8**
Zhao, Rong – 4AM.8
Zhao, Shuyu – 4RA.15
Zhao, Yan – 1AM.6
Zhao, Yu – 7AC.18
Zhao, Yunliang – 4AM.24
Zhen, Huajun – 10BA.20
Zheng, Chenghang – 2CM.1, 5CM.4, 5CM.5, 7AM.10
Zheng, Guangjie – **1RA.3**, 1RA.7, 6CC.3
Zheng, Jing – 7MG.22, 13MG.1
Zheng, Jun – 8IM.8, 11MG.7
Zheng, Lina – 5IM.6, **7IM.17**, 7IM.18
Zheng, Mei – 4AE.1
Zheng, Qianjin – **4AM.29**
Zheng, Qiong – 9AM.3
Zheng, Shili – 13CB.3
Zheng, Tongshu – 11LC.7
Zheng, Xiaohong – 10BA.5
Zheng, Yan – 1OF.8, 3OF.4, 4OF.5, **11MG.2**
Zheng, Yunhao – **7IB.18**, 10TO.3
Zhong, Min – 4AM.29
Zhong, Wenqi – 6AM.5
Zhou, Chufan – **4AM.12**
Zhou, Jiamao – **4RA.15**
Zhou, Min – 10SA.7
Zhou, Qun – **10AP.6**
Zhou, Shan – 13CA.2
Zhou, Shouming – 4AC.31, 7AC.22, 7AM.8
Zhou, Wei – 4AC.10, 5AC.6, **7AC.14**, 7MG.20, 9MG.4, 10AC.11, 13CB.2
Zhou, Yaqing – **7CD.5**
Zhou, Ying – 7MG.13, 7MG.24, **13AC.2**, 14DU.3
Zhou, Yixin – 7LC.11
Zhou, Yue – 10TO.9
Zhou, Zhen – 4IM.16, 6IM.3, 7AC.13
Zhou, Zilin – **7AC.22**

Zhu, Chunmao – 1RA.6

Zhu, Jie – 7TT.2

Zhu, Liang – 11HA.1, 12CB.3

Zhu, Lidan – 7MG.11

Zhu, Shuhui – 10SA.7

Zhu, Shupeng – 4AC.28, 12MG.6

Zhu, Tianle – 11HA.5

Zhu, Tingyu – 4MS.22

Zhu, Tong – 3OF.4, 4OF.5, 7MG.25, 11MG.2, 13TO.4

Zhu, Yifang – 4AE.8, 6AE.3, 7AM.3

Zhu, Yishu – 7LC.19

Zhu, Zheng – 2IA.4

Zhuang, Ziqing – 8AE.7, 10IM.5

Zhujun, Yu – 8AC.5

Zhukovsky, Mikhail – 4IA.9

Zia, Muhammad – 7BA.25

Ziegler, Kira – 11HA.5

Ziegler, Volker – 4IM.31, 7LC.8

Ziemann, Paul – 4AC.44, 4AC.45, 7AC.37, 8AC.3, 8AC.6, 9AC.3, 11IM.3

Ziamba, Luke – 1RA.1, 7CC.13, 13CB.8

Zieren, Jürgen – 4MD.1

Zíková, Nadežda – 4AP.12, 4CA.24, 11LC.1

Zimmerman, Naomi – 6AE.6, 8AE.5, 8LC.1, 9LC.5, 12LC.4

Zimmerman, Stephen – 8CB.5, 10CA.11

Zimmermann, Ralf – 3OF.5, 5CD.4, 6CD.7, 6IM.1, 7CB.1, 13CB.5

Zipori, Assaf – 4IN.3, 4IN.4

Zirui, Liu – 8MG.8

Ziskind, Michael – 9AP.8

Zitnik, Matjaz – 10IM.6

Ziying, Nancy – 1AC.1

Zou, Jun – 4AC.22

Zou, Yufei – 4AM.30

Zubko, Evgenij – 10AP.1, 11AP.1

Zuend, Andreas – 4AC.17, 8AM.9

Zuidema, Christopher – 11LC.5

Zuidema, Paquita – 1RA.2

Zukeran, Akinori – 7BA.24, 7CB.19, 7IA.11, 10CB.20, 10CB.21, 10CB.22

Zuniga, Alexander – 12BA.6

Zuromski, Lauren – 7CC.14

Zuth, Christoph – 7AC.40

Ždímal, Vladimír – 4AC.17, 4AP.12, 10SA.15, 14SA.6





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$Q_s=800$ L/min

High Vol Liquid Sampler
(**KILLER PM Condenser**)



$D_{50}=0.6$ μm

$Q_s=500$ L/min

Battery

Power=4 hr

Weight=2kg

**Aerosol Particle
Liquid Concentrator**



**100-200 μL EBC/min
Exhaled Breath Condensate
Collection (**BioScreen**)**



**Real-time Yeast Based $\text{PM}_{2.5}$
Toxicity Analysis (**SLEPTor**)**



$D_{50}=2\mu\text{m}$ Battery Power=3.5 hr
 $Q_s=1000$ L/min Weight=1.9 kg

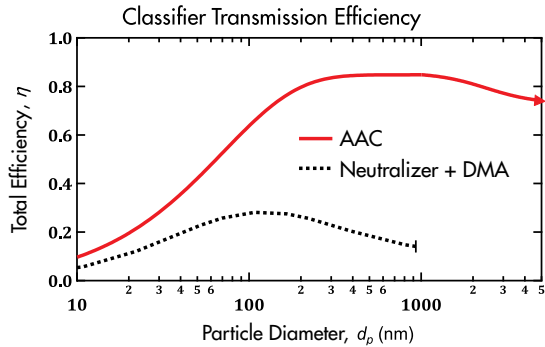
**High Vol Portable Bioaerosol
Sampler (**HighBioTrap**)**



Aerodynamic Aerosol Classifier

Classification of aerosol particles by their *aerodynamic diameter*

- Alternative to DMA
- True monodisperse aerosol selection
- Generate calibration aerosol – ideal for optical instruments



- No charger or neutralizer needed
- Free from multiple charging artefacts
- Wide particle size range (25nm to >5 μ m)
- High transmission efficiency

AAC Instrumentation Tutorial:
 Sunday: 1.30 – 3.10 PM
 "Hands-On Aerosol Instrumentation Design & Measurement - Group A"



Centrifugal Particle Mass Analyzer

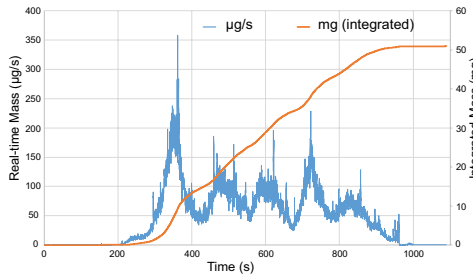
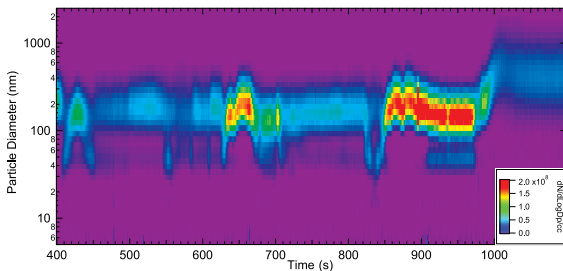
- Classify aerosol particles by mass: charge ratio
- Forms an aerosol mass standard
- Determination of particle density and morphology
- High particle throughput at high resolution due to unique design

Meet Combustion at Booth 14 & 15

Real-time Aerosol Size Distributions

- Particle measurement from 5 nm to 2.5 μ m
- 10Hz data, $T_{10-90\%}$ response time from 200 ms

Size/number spectra & mass emissions from meat cooking



Unipolar Charger

- Uses a corona discharge to place a high level of charge on an aerosol
- Use with the CPMA as part of an aerosol particle mass standard



Smoking Machine

- Flexibly reproduce a variety of smoking topographies, including real-world
- Compatible with tobacco, electronic cigarettes, heat-not-burn



CAMBUSTION co-authored papers at IAC 2018 include:

A Novel Technique for Testing Filter Media Using Monodisperse Aerosol as a Function of Aerodynamic Diameter, & Calibration of Condensation Particle Counters Against an Aerosol Electrometer Over a Wide Range of Sizes with Minimal Charge State Uncertainty. Monday 6.15PM Exhibition Hall 5, Posters 4CM.7 and 4IM.21

Uniformity of Particle Concentration after Mixing Aerosol Flows. Friday 11:15AM, Room 276, 12IM.7

Aerosol Charger Characterization using the Aerodynamic Aerosol Classifier. Friday 2:30PM, Ferrara Theater, 13IM.6