Monday

Monday 10:00 AM - 11:45 AM
Tutorials Session 1: Introduction to Aerosols 1 (Ballroom C)

Monday 10:00 AM - 11:45 AM
Tutorials Session 1: The Great Indoors: Indoor Aerosol Chemistry, Ventilation, and Exposure (Ballroom F)

Monday 10:00 AM - 11:45 AM
Tutorials Session 1: Photochemical Box Modeling (Ballroom G)

Monday 10:00 AM - 11:45 AM
Tutorials Session 1: Aerosol Chemical Analysis: Online and Offline Mass Spectrometery Methods (Ballroom H)

Monday 11:45 AM - 12:15 PM
Boxed-lunch for Tutorial Attendees (Hotel Dena, Justine's)

Monday 12:15 PM - 2:00 PM
Tutorials Session 2: Introduction to Aerosols 2 (Ballroom C)

Monday 12:15 PM - 2:00 PM
Tutorials Session 2: Aqueous SOA Chemistry: Measurements and Modeling (Ballroom F)

Monday 12:15 PM - 2:00 PM
Tutorials Session 2: In Vitro Assessment of Aerosol Exposures and Health Effects: State-of-the-Art, Challenges, and Advancements (Ballroom G)

Monday 12:15 PM - 2:00 PM
Tutorials Session 2: Satellite Remote Sensing of Atmospheric Aerosols Over Land (Ballroom H)

Monday 1:45 PM - 2:15 PM
Coffee Break (Hotel Dena, Justine's)

Monday 2:00 PM - 4:30 PM
AAAR Executive Committee Meeting (Room 211)

Monday 2:15 PM - 4:00 PM
Tutorials Session 3: Hands-on Modeling of Aerosol Dynamics (Ballroom C)

Monday 2:15 PM - 4:00 PM
Tutorials Session 3: Aerosol Levitation Methods (Ballroom F)

Monday 2:15 PM - 4:00 PM
Tutorials Session 3: Aerosol Health Impacts: Exposure, Toxicity, and Epidemiology (Ballroom G)

Monday 2:15 PM - 4:00 PM
Tutorials Session 3: Do-It-Yourself Aerosol Filtration (Ballroom H)

Monday 2:15 PM - 4:00 PM
Tutorials Session 3: Hands-On Instrumentation Tutorial Group A (Exhibit Hall AB)

Monday 2:15 PM - 4:00 PM
Bystander Intervention Workshop to Support Positive Workplace Culture (Ballroom AB)

Monday 4:00 PM - 4:15 PM
Coffee Break (Hotel Dena, Justine's)

Monday 4:15 PM - 6:00 PM
Tutorials Session 4: Methods to Study the Nucleation of Aerosols, Focusing on Flames and high-Temperature Reacting Flows (Ballroom C)

Monday 4:15 PM - 6:00 PM
Tutorials Session 4: Monitoring with Air Quality Sensors: Guidance on Calibration and Network Maintenance (Ballroom F)

Monday 4:15 PM - 6:00 PM
Tutorials Session 4: Bioaerosol Molecular Techniques: Sequencing, QA/QC, and Field Applications (Ballroom G)

Monday 4:15 PM - 6:00 PM
Tutorials Session 4: Leveraging the DOE ARM User Facility for Aerosol Research (Ballroom H)

Monday 4:15 PM - 6:00 PM
Tutorials Session 4: Hands-On Instrumentation Tutorial Group B (Exhibit Hall AB)

Monday 6:30 PM - 8:30 PM
Light Refreshments (Exhibit Hall AB)

Monday 5:30 PM - 7:30 PM
Career Fair and Mentoring Session (Exhibit Hall AB)

Monday 7:00 PM - 8:30 PM
Geeks Who Drink Trivia (Exhibit Hall AB)

Tuesday

Tuesday 7:00 AM - 8:00 AM
Committee Meetings 1 - Awards (Room 207)

Tuesday 7:00 AM - 8:00 AM
Committee Meetings 1 - Endowment (Room 208)

Tuesday 7:00 AM - 8:00 AM
Committee Meetings 1 - Internet (Room 209/210)

Tuesday 8:00 AM - 9:15 AM
Plenary 1 (Ballroom DE)

8:00 **Welcoming Remarks** Roya Bahreini, Conference Chair, *UC Riverside*

8:05 **AEESP Lecture: The Great Smog Caper** Richard Flagan, *California Institute of Technology*

Moderator Jesse Kroll, *Massachusetts Institute of Technology*

9:00 **Liu and Sinclair Awards Presentation** Gabriel Isaacman-VanWertz, *Virginia Tech*

Announcement of 2026 AAAR Fellows James Smith, *UC Irvine*

Tuesday 9:00 AM - 4:00 PM

Exhibits Open (Exhibit Hall AB)

Tuesday 9:15 AM - 9:45 AM
Coffee Break (Exhibit Hall AB)

Tuesday 9:45 AM - 11:30 AM
Session 1: Platform

1AP AEROSOL PHYSICS 1: OPTICAL PROPERTIES
BALLROOM AB – Matthew Berg and Paul Ohno, chairs

1AP.1 9:45 **Rayleigh Spherical Particle Scattering and Absorption, the Lorentz-Lorenz Factor, and the Fröhlich Resonance.** HANS MOOSMÜLLER, Kurt Ehlers, Prakash Gautam, Raiya Ebini, Christopher M. Sorensen, *Desert Research Institute*

1AP.2 10:00 **A Novel Microphysical Model for Emergent Phenomena in Multiphase Single Aerosol Particles: Crystallization, Nanoparticle Locking and pH.** FRASER CRAWFORD, Jonathan P. Reid, Walther Schwarzacher, *University of Bristol*

1AP.3 10:15 **FTIR Spectroscopy of Desert Dust: Implications for Complex Refractive Index Spectra and Dust Sample Diversity.** ANSEL LAVITZ, Adriana Rocha Lima, Hans Moosmüller, *University of Maryland, Baltimore County*

1AP.4 10:30 **Capabilities of Digital Holography for In-Situ Aerosol Characterization.** MATTHEW BERG, *Kansas State University*

1AP.5 10:45 **Studying Single-Particle Phase Transitions of Mixed Organic/Inorganic Aerosol Particles with a Low-Cost Aerosol Optical Trap.** ALI ALOTBI, Evan Dalton, Cara Waters, Ryan Davis, Andrew P. Ault, *University of Michigan*

1AP.6 11:00 **Light Absorption by Nitroaromatic Brown Carbon Chromophores: Insights from Particle Levitation.** PEDRO DE ALLENDE, Malsha Amugoda, Katelyn Pacaud, James F. Davies, *University of California, Riverside*

1AP.7 11:15 **In Situ Measurements of Submicron Aerosol Particle Physicochemical Properties via Fluorescence.** PAUL OHNO, *Auburn University*

1BA BIOAEROSOLS 1: AIRBORNE PATHOGEN SURVIVAL AND TRANSMISSION
BALLROOM F – Joshua Santarpia and Liz Klug, chairs

1BA.1 9:45 **High-Throughput Platform to Probe Bioaerosol Viability and Transcriptional Dynamics.** Allen E. Haddrell, Xia Yi, Robert Alexander, Kennedy Peek, Darryl Hill, Andrew Davidson, Tristan Cogan, Jamie Mann, Adam Finn, JONATHAN P. REID, *University of Bristol*

1BA.2 10:00 **Photocatalytic Disinfection of Antibiotic-Resistant Bioaerosols Using Cu-Doped TiO2: Impact of Reactor Hydrodynamics and Operating Parameters.** CHINMOY MANDAL, Prashant Nawale, Manoranjan Sahu, *Indian Institute of Technology Bombay*

1BA.3 10:15 **Effects of Environmental Conditions on Airborne Virus Decay by Using Electrodynamic Levitation Techniques.** ZHENYU MA, Emily Hong, Hunter Richards, Herek L. Clack, *University of Michigan*

1BA.4 10:30 **Survival of Legionella in Droplets Exposed to Sulfur Dioxide.** THI THUONG THUONG CAO, Amy Pruden, Linsey Marr, *Virginia Tech*

1BA.5 10:45 **Organic Components Modulate Respiratory Syncytial Virus Survival in the Combined Aerosolization and Evaporation Stage at Low RH.** YUHUI GUO, Deepak Sapkota, Ajay Sajan, HoangDinh Huynh, Jeffrey Kahn, Hui Ouyang, *The University of Texas at Dallas*

1BA.6 11:00 **Detectable Influenza RNA in Recipient Breathing-Zone Aerosols During Trial of Transmission from Naturally Infected Donors.** ANNA PULLEY, Madison L. Sawyer, Amrita Mandal, Akshaya Ganesh, Grace Herron, Briana Jacobs, Mariana Lim, Emily Liu, Tam-My Nguyen, Alycia Smith, Kristen K. Coleman, S.-H. Sheldon Tai, Gautam Vanama, Shengwei Zhu, Thaís Ferreira, Jonathan Vyskocil, Jelena Srebric, Donald K. Milton, *University of Maryland*

1BA.7 11:15 **Application of BioCascade Impactor in Hospital Environments for Detection of Airborne Pathogens.** MOHAMMAD WASHEEM, Sudheer Salana, Amin Shirkhani, Luis Angel Nino Barreat, Arantzazu Eiguren-Fernandez, Jiayu Li, Trishul Siddharthan, Roberto Ruiz-Cordero, Chang-Yu Wu, *University of Miami*

1BL HONORING PROF. BENJAMIN LIU AND HIS CONTRIBUTIONS TO AEROSOL SCIENCE
BALLROOM C – Suresh Dhaniyala and Francisco Romay, chairs

1BL.1 9:45 **Celebrating the Lifetime Achievement of Benjamin Y. H. Liu, Professor, Inventor and Entrepreneur (1934-2025).** DAVID Y. H. PUI, Francisco Romay, *University of Minnesota*. INVITED.

1BL.2 10:00 **Performance Evaluation of Low-Cost Condensation Particle Counters for Ultrafine PM Monitoring.** FRANCISCO ROMAY, Brent Williams, David Y. H. Pui, *University of Minnesota*

1BL.3 10:15 **Field Deployment of an Open-Source Condensation Particle Counter for Residential UFP Monitoring and Portable Air Cleaner Performance Evaluation.** Aaron Collins, Joseph Stam, ROB CALDOW, *OpenAeros LLC*

1BL.4 10:30 **A Compact, Battery-Operated 1 Nanometer Condensation Particle Counter: Laboratory Characterization and Field Deployment on a Tethered Balloon for New Particle Formation Studies.** CHONGAI KUANG, Darielle Dexheimer, Casey Longbottom, Carlos Ruiz, *Brookhaven National Laboratory*

1BL.5 10:45 **HoloCMA: A Holographic Eye on Coarse-Mode Aerosols.** JIARONG HONG, Nikil Krishnakumar, Ryne Juidici, Nicholas Bravo-Frank, Shibo Wang, Qisheng Ou, Francisco Romay, Chongai Kuang, Naruki Hiranuma, David Y. H. Pui, Wing Lai, *Particle4X, Inc.*

1BL.6 11:00 **SEMS Rapid Scanning Transfer Functions: Impact on Inversion.** MARK KANAPARTHI, Suresh Dhaniyala, *Francis Marion University*

1BL.7 11:15 **Implementation of Advanced Process Control in Wafer Cleaning Using Size-Classified Particle Deposition.** KYOUNGTAE KIM, Minsu Lee, Cheolwon Eo, Mihyun Yoon, Jeonguk Kim, Jaein Jeong, Youngjeong Kim, *Samsung Electronics Co., Ltd.*

1BL.8 11:30 **Influence of Professor Benjamin Liu in the Development of Electrospun Nanofibers.** HOO YOUNG CHUNG, Shibo Wang, Francisco Romay, Qisheng Ou, David Y. H. Pui, *University of Minnesota*

1CC AEROSOLS, CLOUDS, AND CLIMATE 1: ICE-NUCLEATING PARTICLE CHARACTERISTICS AND DISTRIBUTION
BALLROOM H – Swarup China and Ziying Nancy Lei, chairs

1CC.1 9:45 **Spatial Distribution of Atmospheric Ice-Nucleating Particles from Local to Synoptic Scales.** RUICHEN ZHOU, Drew Juergensen, Kelton Ayars, Carson Hume, Kevin Barry, Oren Dutton, Gavin McMeeking, Ezra Levin, Anna Hodshire, Leah Gibson, Ethan Emerson, Paul DeMott, Jessie Creamean, Sonia Kreidenweis, Russell Perkins, *Colorado State University*

1CC.2 10:00 **Ice Nucleation of Pristine and Aged Plastics in the Cirrus Cloud Regime.** CAMILLE TEDDER, Gouri Prabhakar, Alexandria Johnson, *Purdue University*

1CC.3 10:15 **Wildfire-Derived Highly Viscous Organic Particles as Ice-Nucleating Particles.** SWARUP CHINA, Gourihar Kulkarni, Nurun Nahar Lata, Amna Ijaz, Zezhen Cheng, Alla Zelenyuk, Lynn Mazzoleni, *Pacific Northwest National Laboratory*

1CC.4 10:30 **Molecular Chemical Characterization of Pollen Particles and Their Role in Ice Cloud Formation.** ZIYING LEI, Rebecca Conner, Jack Smith, *University of Tennessee*

1CC.5 10:45 **Understanding the Vertical Variability of Arctic Ice Nucleating Particles and Its Correlations with Aerosol Properties from ARCSIX Airborne Measurements.** BO CHEN, Russell Perkins, Kerri Pratt, Kevin Barry, Xingzhi Chen, Emily Costa, Andrew Holen, Camille Mavis, Ryan Patnaude, Vanessa Selimovic, Tiantian Zhu, Sonia Kreidenweis, Paul DeMott, *Colorado State University*

1CC.6 11:00 **Single-Particle Chemical Characteristics of Tropospheric Clouds and Aerosol from an Aircraft During CACTI 2018.** AMNA IJAZ, Jerome Fast, Fan Mei, Mikhail Pekour, Beat Schmid, Israel Silber, Kaitlyn Suski, Jason Tomlinson, Adam Varble, Alla Zelenyuk, *Pacific Northwest National Laboratory*

1CC.7 11:15 **Introducing the BNL Convection Cloud Chamber: A New Laboratory Platform for Controlled Aerosol–Cloud–Turbulence Studies.** ARTHUR J. SEDLACEK, Fan Yang, Nour Kastoun, Raymond Shaw, Andrew McMahon, Connie-Rose Deane, Nathanial Speece-Moyer, Scott Smith, *Brookhaven National Laboratory*

1RM REMOTE AND REGIONAL ATMOSPHERIC AEROSOL 1: AEROSOL CHEMICAL EVOLUTION AND SECONDARY FORMATION

BALLROOM DE – Doug Collins and Ben Nault, chairs

1RM.1 9:45 **The Growing Impact of Wildfires on Air Quality in Latin America and the Caribbean: Observational Gaps and Recommendations for Air Quality Management.** Admir Creso Targino, Graciela Binimelis de Raga, Lucia Caudillo-Plath, Sebastián Diez, Fernando Garcia-Menendez, Luis A. Ladino, LUPITA D. MONTOYA, Juan Pallotta, Blanca Estela Ríos Ramos, María Velázquez, *Universidad Nacional Autonoma de Mexico*. INVITED.

1RM.2 10:00 **Evaluating Long-Term Seasonal Variability of Aerosol Optical Properties in Colorado.** ERIN K. BOEDICKER, Andre Bergeron, Gerardo Carrillo-Cardenas, Dominik Kulakowski, John Rogan, Elisabeth Andrews, Anna Gannet Hallar, *CIRES, NOAA*

1RM.3 10:15 **Global Timescales of Wet Deposition for Particles and Organic Gases.** BEATRICE KYEREMATENG, Gabriel Isaacman-VanWertz, Christos Stamatis, *Virginia Tech*

1RM.4 10:30 **Integrating Ground-Based and NASA Remote Sensing Data to Investigate Atmospheric Aerosols and Carbon Cycling in Forested Ecosystems.** JAMES HENRY, Thomas O'Halloran, Andrew Metcalf, *Clemson University*

1RM.5 10:45 **Air Quality in a Rural Anthracite Coal Region of Pennsylvania.** DOUGLAS COLLINS, Dabrina Dutcher, Shaunna Barnhart, Brian King, Sean Koranteng, Iniyan Lourderaj, Calvin McGuire, Zoey Spang, Samuel Tuffour, *Bucknell University*

1RM.6 11:00 **Rural-Urban Air Quality Analysis and Hotspot Identification Using High Density, Statewide Sensor Network in West Bengal, India.** SATHISH SWAMINATHAN, Alexander Berman, V. Faye McNeill, *Columbia University*

1RM.7 11:15 **Unusually High Summertime Ammonium Nitrate in Particles over the San Joaquin Valley During the AEROMMA Project.** ANN M. MIDDLEBROOK, Sarah Albertin, Alison Piasecki, Ilana Pollack, Joseph Roscioli, Emily Lill, Emily Fischer, John Crounse, Katherine Ball, Paul Wennberg, Charles Brock, Ming Lyu, Han N. Huynh, Adam Ahern, Amy P. Sullivan, Rodney J. Weber, Magesh K. Mohan, Sherry Luo, Michael Robinson, Andrew Rollins, Eleanor Waxman, Kristen Zuraski, Quazi Rasool, Nazrul Islam, Steven S. Brown, *NOAA Chemical Sciences Laboratory*

1UA URBAN AEROSOLS 1: MODELING AND SOURCING

BALLROOM G – Fangzhou Guo and Abbie Maben, chairs

1UA.1 9:45 **Using Large-Eddy Simulation to Interpret Aerosol Turbulent Flux Measurements in Complex Source Environments.** ELLA IVANOVA, Sanghee Han, Lintong Cai, Nicholas Meskhidze, Markus Petters, *University of California, Riverside*

1UA.2 10:00 **From Flames to Fryers: Characterization of Particle and Gas Emissions from Small-Scale Sources Using Drone- and Ground-Based Measurements.** ABIGAIL MABEN, Karthick Mohan Kumar, Emilio Molina Rueda, John Flynn, Misa Soto, Clara McMullin, Gabriel Isaacman-VanWertz, Christopher Robertson, Tami Bond, John Volckens, Ellison Carter, Shantanu Jathar, *Colorado State University*

1UA.3 10:15 **Transport and Deposition of Industrial Aerosol Plumes Within Coniferous and Broadleaf Forest Plantations in Suburban Areas.** BORIS KRASOVITOV, Avi Levy, Itzhak Katra, *Ben-Gurion University of the Negev, Israel*

1UA.4 10:30 **High Time Resolution of Toxic Metals Monitoring in California's Central and Imperial Valleys.** EHSAN GOFTARI, Jose Carias, London Fulford, Shosha Capps, Brandon Louie, Jonathan London, Hanyang Li, *San Diego State University*

1UA.5 10:45 **Interannual Variability of Secondary Organic Carbon Driven by Seasonal Shifts in Formation Regimes in Southern Taiwan.** JUN-FA YE, Chih-Yu Chan, Jian-Xian Wu, Shi-Ya Tang, Li-Hao Young, Tse-Lun Chen, Si-Chee Tsay, Neng-Huei Lin, Ta-Chih Hsiao, *National Taiwan University, Taiwan*

1UA.6 11:00 **Evaluating the Contribution of the Polluted Tijuana River on Regional Air Quality Using Machine Learning and LC-MS/MS Analysis.** LEILA EL MASRI, Tobie Bloom, Sonya Patel, Emma Buerk, William Porter, Kimberly Prather, *University of California San Diego*

1UA.7 11:15 **Wintertime Urban-Suburban Comparison of Aerosol Composition, Aging, and New Year Plumes in Houston, TX.** FANGZHOU GUO, Xiangxinyue Meng, Anandi Williams, Jiayun Zhao, Miska Olin, Eugenia Velasco-Cunningham, Sergio Alvarez, Sascha Usenko, Robert Griffin, Roya Bahreini, Sean Raffuse, Ann M. Dillner, Armistead G. Russell, Nga Lee Ng, Yue Zhang, James Flynn, *Aerodyne Research, Inc.*

1UG UP-GOER 5 CHALLENGE 1
EXHIBIT HALL AB – Sam Kaufmann and Prakriti Singh, chairs

1UG.1 9:45 **Bad Air from Big and Small Cars Leads to Bad Hearts and Brains.** ANTHONY S. WEXLER, *University of California, Davis*. INVITED.

1UG.2 9:50 **Finding 'What It Is Made Of' and 'How It Might Grow' for the Smallest Bits That Are in the Air.** COLLEEN MILLER, Paulus Bauer, Véronique Perraud, James Smith, *University of California, Irvine*

1UG.4 **Smoke Inside of the Tiny Air Spaces in Walls.** RACHEL HURLEY, *Worcester Polytechnic Institute*
10:05

1UG.5 10:15 **Too Wet, Too Dry, or Just Right for Brown Smoke?** PRAKRITI SINGH, Erin Bowey, Malsha Amugoda, Pedro De Allende, James F. Davies, Paula K. Hudson, *University of California, Riverside*

1UG.6 10:20 **Figuring Out What the Small Pieces That Come off of Cars Are Made of and How to Find Them near Busy Roads.** DHIVYA MANICKAM, Samuel La Salle, Madeline Cooke, Lisa Wingen, Adam Thomas, Berenice Rojas, Véronique Perraud, Celia Faiola, Barbara Finlayson-Pitts, James Smith, *University of California, Irvine*

1UG.7 10:30 **How Light and Cleaning Can Change the Air We Breathe.** ESTHER OZURUOHA, Sofie Schwink, Ethan Richter, Marina Vance, *University of Colorado Boulder*

1UG.8 10:35 **Does Smoke from Fires in Forests Hurt Humans in a Different Way than Smoke from Plastics?** BRADLEY H. ISENOR, Arthur W. H. Chan, *University of Toronto*

1UG.9 10:45 **New Things Form When Sun Hits Tiny Stuff in Air Water.** ANGELINA PETERSEN, Alair Wong, Tran Nguyen, *University of California, Davis*

1UG.10 **Guess What Kinds of Tiny Stuff Is in Space Air?** MARIT MEYER, *Amentum/NASA*
10:50

Tuesday 11:30 AM - 1:00 PM
AAAR Board of Directors Luncheon (Room 211)

Tuesday 12:00 PM - 1:00 PM
New PI Gathering (Exhibit Hall AB)

Tuesday 12:00 PM - 1:00 PM
Enabling Stronger Communities through Community Engaged Research in Aerosol Science (Ballroom AB)

Tuesday 12:00 PM - 1:00 PM
Committee Meetings 2 - Working Group Chairs (Ballroom F)

Tuesday 12:30 PM - 1:00 PM
Training with the UK's EPSRC Centre for Doctoral Training in Aerosol Science (Ballroom C)

Tuesday 1:00 PM - 3:00 PM
Session 2: Poster (Exhibit Hall AB)

2AC AEROSOL CHEMISTRY 1: POSTERS
EXHIBIT HALL AB

2AC.2 **Mechanistic Insights Into the Photooxidation of Dimethyl Diselenide (DMDSe): Comparisons with Dimethyl Disulfide (DMDS) and Dimethyl Selenide (DMSe).** MICHAEL LUM, Linhui Tian, Erin Bowey, Roya Bahreini, Ying-Hsuan Lin, *University of California, Riverside*

2AC.4 **The Data Infrastructure of the Atmospheric Science and Chemistry mEasurement NeTwork (ASCENT): From the Instruments to You.** SEAN RAFFUSE, Veronica Scott, Rudi DeMarco, Brian Trout, Trinidad Padilla, Xiaoya Cheng, Roya Bahreini, Ann M. Dillner, Armistead G. Russell, Richard Flagan, James Flynn, Drew Gentner, Robert Griffin, Lelia Hawkins, Jose-Luis Jimenez, Jingqiu Mao, Shane Murphy, Albert Presto, Allen Robinson, John Seinfeld, Jason Surratt, Joel Thornton, Nga Lee Ng, Bob Dattore, *University of California, Davis*

2AC.5 **Urban-Rural Gradients in Aerosol Liquid Water and pH During the CoURAGE Campaign.** AMIR BABAEI-GHAREHBAGH, Jemma Przybocki, Marissa Cuevas, Isaiah Smith, Maria A. Zawadowicz, Akua A. Asa-Awuku, Benjamin A. Nault, Peter F. DeCarlo, Christopher Hennigan, *University of Maryland, Baltimore County*

2AC.6 **Secondary Aerosol Formation and Growth During Heatwave.** YIXIN LI, Sarah D. Brooks, Renyi Zhang, *Texas A&M University*

2AC.7 **Nonlinear Relationship Between PM2.5 Reduction and Surface Ozone Changes in Northeast Asia.** JONG-MIN KIM, Yu-Jin Jo, Hyo-Jung Lee, Cheol-Hee Kim, *Pusan National University*

2AC.8 **Occurrence and Characterization of PFAS in Atmospheric PM2.5 Using Target and Non-Target Analysis.** SUJUNG HAN, Taeyeon Kim, Hyejin Shin, Kyung-Duk Zoh, Kwon Ho Jeon, Seung-Muk Yi, *Seoul National University*

2AC.9 **Molecular Evolution and Nitrosalicylic-Acid-Dominated Organic Aerosol Formation in an Urban-Coastal Environment.** MEGHA ANAND, Abhishek Chakraborty, *Indian Institute of Technology Bombay*

2AC.10 **Using Tryptophan as an Indicator of PH in Bioaerosol Particle Fluorescence for Temporal Resolution of Aerosol Chemistry.** HUNTER RICHARDS, Zhenyu Ma, Allen E. Haddrell, Herek L. Clack, *University of Michigan*

2AC.11 **Morphological Effects on the Heterogeneous Freezing of Droplets Containing Different Ice Nucleating Particles.** REBECCA CONNER, Natalie Bacallao, Peyton Stiles, Jack Smith, Taylor Peña, Sarah D. Brooks, Ziying Lei, *University of Tennessee*

2AC.12 **Toward Monitoring the Aging and Mixing of Single Electrodynamically Levitated Aerosol Particles.** ARDEN FLOYD, Cole Sagan, Rachel Mark, Marissa Weichman, *Princeton University*

2AC.13 **Toxicological Impact of Size-Fractionated Incense Smoke on B16 Melanoma Cells Linked to Persistent Free Radicals and Chemical Composition.** LI-YING HSIEH, Zhen-Lun Tseng, Wen-Ping Jiang, Chiu-Lan Chen, Ying I. Tsai, *Chia Nan University of Pharmacy and Science, Taiwan*

2AC.14 **Association Between PM2.5 Exposure and Risk of Pulmonary Function Decline in Asthmatic Children: A Comparative Study of Exposure Assessment Strategies.** SUNG CHUL SEO, *SeoKyeong University*

2AC.15 **Stability of Environmentally Persistent Free Radicals: Irradiation, Radical Precursors, Autoxidation, and Metal Complex Interactions.** B. SAGE LAUPER-COOK, Lena Gerritz, Caitlyn Cruz, Sergey Nizkorodov, Manabu Shiraiwa, *University of California, Irvine*

2AC.16 **Heterogeneous Uptake of O3, HCl, and N2O5 on Al2O3 at Low Temperature: Implications for Stratospheric Aerosol Injection and Rocket Emissions.** YUAN LIU, Shu-Wen You, Uma Puttu, Rajan K. Chakrabarty, Lu Xu, *Washington University in St. Louis*

2AC.17 **In Situ Surface Tension Measurement of Deliquesced Aerosol Particles.** MASAO GEN, Masayoshi Nakamura, *Chuo University*

2AC.18 **A Trial Methodology Towards Airborne Nanoparticle Analysis Using Single-Particle Inductively Coupled Plasma Mass Spectrometry.** FATIMA AHMAD, Taryn Waddey, Patrick Chepaitis, *UL Research Institutes*

2AC.19 **Drying of Aqueous Aerosol Mimic Solutions.** THOMAS MESZAROS, Melissa Galloway, *Lafayette College*

2AC.20 **Carbonyl and Ammonium Sulfate Product Identification in Aqueous Aerosol Mimics.** JUNE MORISHIGE, Emily Bilko, Thomas Meszaros, Nolan Sirgany, Brian Henesey, Daniel Griffith, Melissa Galloway, *Lafayette College*

2AC.21 **Physical Properties of Aged Carbonyl and Ammonium Sulfate Aerosol Mimics.** NOLAN SIRGANY, Tsering Youdon, Joseph Woo, Melissa Galloway, *Lafayette College*

2AC.22 **Mechanistic Insights Into the Acid-Catalyzed Transformation of Lignin-Derived Coniferaldehyde.** ERIK JACKSON, Sergey Nizkorodov, Yuge Chun, Wendy Tran, *University of California, Irvine*

2AC.23 **Experimental Determination of Air–Water Partition Coefficients for PFAS and Comparison with Thermodynamic Models.** AMIR BABAEI-GHAREHBAGH, Joowon Kim, Ke He, Lee Blaney, Christopher Hennigan, *University of Maryland, Baltimore County*

2AC.24 **Modulation of Fenton-like Processes and Hydroxyl Radical Generation by Organic Complexation in the Aqueous Phase.** YOUSSEF HARB, Pascale Lakey, Lena Gerritz, Sergey Nizkorodov, Manabu Shiraiwa, *University of California, Irvine*

2AC.25 **Interfacial Tension of Organic and Aqueous Ammonium Sulfate Phases.** KC WAHL, Alison Bain, *Oregon State University*

2AP AEORSOL PHYSICS 2: POSTERS

EXHIBIT HALL AB

2AP.1 **Experimental Investigation of Coagulation of Neutral-Charge Particle Pairs with Unequal Sizes.** BRANDON BOREN, Masa Kasem, Hui Ouyang, *The University of Texas at Dallas*

2AP.3 **Characterizing the Continuum Between Bipolar and Unipolar Charging.** TYLER J. JOHNSON, Gregory Smallwood, Conor Ruzycki, Jason S. Olfert, Robert T. Nishida, *Atmose Ltd.*

2AP.4 **Turbulence, Surface Complexity, and Morphology Controls on Submicron Particle Dry Deposition: Insights from a Controlled Chamber Study.** JONAH HAZELWOOD, Markus Petters, Nicholas Meskhidze, *North Carolina State University*

2AP.5 **Reduced-Order Modeling Based on All-Atoms Molecular Dynamics Simulations of Titania Nanoparticle Sintering.** JAVIER GALLARDO, José Morán, Jerome Yon, *Normandie Université, INSA Rouen, CORIA, Rouen, France*

2AP.6 **Spectrographic Methods for Uncovering Optical Properties of Mineral Dust Aerosols.** KURT EHLERS, Keira Gilmore, Talia Wachsman, Reid Davis, Prakash Gautam, Christopher M. Sorensen, Hans Moosmüller, *Truckee Meadows Community College*

2AP.7 **Experimental Development of Integrated Ensemble and Single-Particle Aerosol Optical Measurements Across near Full Angular Range.** PRAKASH GAUTAM, *Desert Research Institute*

2AP.8 **Using Fluorescent Surfactants to Probe Interfacial Transport in Levitated Viscous Microdroplets.** DERRECK HARRIS, Michael Jacobs, *Texas State University*

2AP.9 **Characterizing Contributions to Cloud Condensation Nuclei and Cloud Droplet Number Concentrations from New Particle Formation in a Subtropical Forested Environment.** AJITH THENOOR CHANDRAN, Xiangxinyue Meng, Kyle P. McCary, Alan R. Gonzalez, Heewon Yim, Yuzhou Wang, Qi Ying, Maria A. Zawadowicz, Yue Zhang, *Texas A&M University*

2AP.10 **New Particle Formation in an Arid Environment: Role of Multiple Atmospheric Processes.** ANUJ SHRIVASTAVA, Deepika Bhattu, *Indian Institute of Technology, Jodhpur*

2AP.11 **Characterizing Horizontal Gradients of Aerosol Pollution and Chemical Speciation Across Oklahoma.** SANDRA MARCELA LORIA SALAZAR, Emily West, Connor Flynn, Jens Redemann, *University of Oklahoma, School of Meteorology*

2AP.12 **When "Cooling" Aerosols Cause Warming.** LONGRUI ZHANG, Rajan K. Chakrabarty, Taveen S. Kapoor, Prabhav Upadhyay, *Washington University in St. Louis*

2AP.13 **Co-Injection of Alkene and Sulfur Vapor Precursors as a Practical, Lower-Sulfur Alternative for Stratospheric Aerosol Injection.** DUZITIAN LI, Mingyi Wang, Hongwei Sun, David Keith, *The University of Chicago*

2AP.14 **Experimental Simulation of Cloud Formation and Aerosol Evolution in Planetary Atmospheres.** MICHAEL PAUKEN, Luca Valdarno, Marcel Veismann, Dejian Fu, Rahul Kushwaha, Joseph Salazar, Richard Flagan, Will Cantrell, Adrian Castro, *Jet Propulsion Laboratory, Caltech*

2AP.15 **Determining the Optical Properties of Single Aqueous Carbonate-Containing Aerosol Droplets.** KELSI RAMOS, Emily Werner, Alison Bain, *Oregon State University*

2AP.16 **Controlling Asperity Width for Aerosol-Surface Contact and Its Effect on Particle-Surface Adhesive Forces.** HENRY MACPHERSON, Matthew Jones, Paul De Bank, *University of Bath*

2AP.17 **Evaluation of Particle Transport and Concentration Uniformity in Multi-Bend Duct Flows.** LEANDER TENBARGE, Aayushi Bohrey, Bernard Olson, Austin Andrews, *Tennessee Technological University*

2AP.18 **Influence of Water Composition on Aerosol Emission Through Bubble Bursting: Using Laboratory Experiments to Link Measurements of Water, Bubbles, and Aerosols for Solutions of Varied Contamination.** MEGAN MAZZATENTA, Samuel M. Koblensky, Luc Deike, Kimberly Prather, *University of California San Diego*

2AP.19 **Effects of Salt and Surfactant on Sea Spray Aerosol Properties.** SAMUEL M. KOBLENSKY, Luc Deike, *Princeton University*

2AP.20 **Weak, Water-Soluble Brown Carbon at a Petrochemical Complex in Winter: Primary Combustion Controls Absorption While Secondary Organics Dilute It.** KYUNGAE SEO, Hwajin Kim, Jaewook Kim, Jihye Moon, Jaewon Seo, *Seoul National University*

2AP.21 **Microdroplet Characterization of Surface-Active Tire-Derived Organic Pollutants with a Quadrupole Electrodynamic Trap.** CECILIA PILON, Alexandra Deal, *University of Michigan*

2AP.23 **Metal Rain: How Satellite Re-entry Aerosols Could Warm the Stratosphere.** PRABHAV UPADHYAY, Sandro Vattioni, Jian Huang, Wei Su, Timofei Sukhodolov, John Dykema, Jan Sedlacek, Taveen S. Kapoor, Xinhua Liang, Rohan Mishra, Rajan K. Chakrabarty, *Washington University in St. Louis*

2BA BIOAEROSOLS 2: POSTERS
EXHIBIT HALL AB

2BA.2 **Disentangling the Factors Controlling the Emission of Bioparticles That Act as Ice Nucleating Particles.** GAVIN CORNWELL, Shreya Joshi, *Pacific Northwest National Laboratory*

2BA.3 **A Hierarchical Machine Learning Framework for Atmospheric Bioparticle Detection at Bankhead National Forest.** SHREYA JOSHI, Nurun Nahar Lata, Ashfiqur Rahman, Zezhen Cheng, Swarup China, Gavin Cornwell, *Pacific Northwest National Laboratory*

2BA.5 **Characteristics of Occupational Disease Cases Associated with Bioaerosol Exposure.** YOULIM LEE, *Institute of Occupational and Environment, KCOMWEL*

2BA.6 **Mapping Ecosystem Biodiversity Using Airborne Environmental DNA.** SHALLON MUTSA JOZI, Amira Hansch, Nicolas Gustafson, Roger Schürch, Scotty Yang, Gabriel Isaacman-VanWertz, *Virginia Tech*

2BA.7 **Quantifying Respiratory Particle Emission Rates for Singers and Non-Singers.** MAHENDER SINGH RAWAT, Dinushani Senarathna, Byron Erath, Sumona Mondal, Sarah K. Sirsat, Andrea Ferro, *Clarkson University*

2BA.9 **Characterizing Emissions of Biotic Inoculant Containing Aerosol from Ultrasonic Devices: One Element of a System to Inhibit Mold Growth in Buildings.** EMILY NORTMANN, Clara Eichler, Megan Lott, Glenn Morrison, Joe Brown, Rachel Noble, Sherlynette Pérez Castro, Nicole Rockey, Claudia Gunsch, David Singleton, Gavin Duffy, Boyuan Chen, Yanbaihui Liu, Barbara Turpin, *University of North Carolina at Chapel Hill*

2BA.10 **Development of a 3D Printed Lightweight Wetted Wall Cyclone Microsampler for Drones.** EDUARDO ESCAMILLA RODRIGUEZ, Maria King, Juan Garcia Lunar, Chloe McWillis, *Texas A&M University*

2BA.11 **Further Development of a Self-Contained Personal Electrostatic Bioaerosol Sampler (PEBS) for Bioaerosol Collection.** TAEWON HAN, Gediminas Mainelis, *Rutgers, The State University of New Jersey*

2BA.12 **Weekly HVAC Filter Surveillance of Influenza a Viruses in University Settings: Linking HVAC Filter Viral Loads to Airborne Viral Concentrations and Infection Risk.** ZHOUYUAN WANG, Jade Mitchell, Kaisen Lin, *Michigan State University*

2BA.14 **Real-Time Fluorescence Signatures of Viable and Inactivated Airborne Bacteria.** JOOWON LEE, Chunxu Huang, Brianna Corman, Bartek Rajwa, Nusrat Jung, *Purdue University*

2BA.16 **Vertically-Resolved Measurements of Bioaerosol and Seasonal Aerosol Composition at Bankhead National Forest.** MARIA A. ZAWADOWICZ, Chongai Kuang, Andrei Vakhtin, Tamanna Subba, Shawn Serbin, Darielle Dexheimer, Casey Longbottom, Gabrielle Whitson, Carlos Ruiz, Jessie Creamean, Zezhen Cheng, Gregory W. Vandergrift, Ashfiqur Rahman, Nurun Nahar Lata, Swarup China, *Brookhaven National Laboratory*

2BA.17 Microbial Fluctuations and Bioaerosol Concentrations in a Backyard Poultry Coop Before and After Litter Removal. JOHN CATE, Maria King, *Texas A&M University*

2BA.18 Survival Mechanisms Triggered in Escherichia coli Knockouts by Aerosolization Induced Stress. LEILY KHALEGHI, Maria King, *Texas A&M University*

2BA.19 Radionuclide Surrogate Particle Resuspension on Surfaces. JUAN GARCIA LUNAR, Stephen King, Joshua Hubbard, Maria King, *Texas A&M University*

2BA.20 No Observable Effect of Singing on Influenza B Virus Shedding in Exhaled Breath. ANNA PULLEY, Madison L. Sawyer, Philippe Lubet, Amrita Mandal, Anamarie LeDuc, Alycia Smith, Kristen K. Coleman, S.-H. Sheldon Tai, Jonathan Vyskocil, Donald K. Milton, *School of Public Health, University of Maryland, College Pk*

2BA.21 Addressing the Gas Phase Transition of Protein Nanocages. LUIS-JAVIER PEREZ-LORENZO, Preston Dennett, *NanoEngineering Corporation*

2BA.22 Understanding the Size and Prevalence of Respiratory Viruses in Hospital Settings. Kerry Kelly, MD. TANVIR AHMED, Kamaljeet Kaur, Elizabeth Myers, Darrah Sleeth, Selah Willis, Oscar Ticas, Annalyn Jensen, Hunter Esplin, Chase Crimmins, Rachael Jones, Kristi Warren, *University of Utah*

2BA.23 Evaluating the Size Selectivity and Impact of Collection Media Evaporation on BC-VIVAS Performance. MD. TANVIR AHMED, Kamaljeet Kaur, Kerry Kelly, *University of Utah*

2BA.24 Virus Detection in Indoor Environments: Linking Antibody- and PCR-based Measurements to Infectivity. EMAD SANEI, Ke Zhang, Krista Wigginton, *University of Michigan*

2BA.25 Health Risk Assessment of Indoor Airborne Bioaerosol Exposure in Selected Preschools in Selangor, Malaysia. Juliana Jalaludin, Nur Syaidatul Aneesha Mat Sanusi, Khairul Nizam Mohd, ANIL NAMDEO, Mohd Nasir Mohd Desa, *Northumbria University, Newcastle, UK*

2BA.26 Real-Time Pollen and Fungal Spore Measurements with the SwisensPoleno Bioaerosol Monitor. Tianyu Cen, Nicolas Bruffaerts, Stefan Horender, Elias Graf, Benoit Crouzy, Sophie Erb, KONSTANTINA VASILATOU, *Federal Institute of Metrology METAS*

2BA.27 High-Flow Aerosol-to-Microliter Liquid Sampling System for Airborne Pathogen Detection. Li Li, Yi-Bo Zhao, HYUNJOO KIM, Bernard Olson, Christopher J. Hogan, *University of Minnesota*

2BA.28 Characterization of PM2.5 and Associated Fungal Bio-Aerosols in Indoor and Outdoor Environments of the Most Populated City of India. JAMSON MASIH, Khatija Atthar, Lorraine Tellis, Sachin Gupta, *Wilson College, Mumbai, India*

2BA.29 Characterization of Multiple Drug Resistant Bacteria Isolated from Chicken Feather Samples, Prayagraj, India. HARISON MASIH, *SHUATS, (Allahabad) Prayagraj, Uttar Pradesh, India*

2BA.30 The “Oyster of the Air”: A New Filtration Bioaerosol Sampler for Environmental Pathogen Surveillance. ARI MACHTINGER, Tim Locksmith, Eli O'Connor, Shelby O'Connor, Dave O'Connor, *University of Wisconsin–Madison*

2BA.31 Droplet Spread on Surfaces. MAHENDER SINGH RAWAT, Chaewoon Jung, Rachael Snodgrass, Alexandra Longest, Vikas Goel, Linsey Marr, *Virginia Tech*

2BA.32 How Aerosol pH Is Affected by Trace Gas Species During an Engineered Inactivation of Pathogenic Aerosols. ZHENYU MA, Hunter Richards, Herek L. Clack, *University of Michigan*

2BA.33 Experimental Considerations for Quantifying Airborne Influenza Virus Shedding in the Ferret Model. JOANNA PULIT-PENALOZA, Jessica Belser, Troy Kieran, Nicole Brock, Xiangjie Sun, Hui Zeng, Claudia Pappas, Taronna Maines, *CDC*

2BA.34 Design and Performance-Evaluation of a Wet-Cyclone-Based BioAerosol Sampler (WC-BAS) for High-Throughput Collection of Bioaerosols. BOWEN BAI, P. S. Ganesh Subramanian, Andy Kim, Ananya Benegal, Shu-Wen You, Das Bedadeep, Yangjie Tan, Yuezhi (August) Li, Dishit Ghumra, Kumud Mantri, Michael Vahey, Rajan K. Chakrabarty, *Washington University in St. Louis*

2BA.35 Temporal Dynamics and Genetic Homogeneity in Airborne Metagenomes. LUIS ANGEL NINO BARREAT, Chang-Yu Wu, *University of Miami*

2BA.36 A Reusable, Visible-Light-Activated Antimicrobial Pre-Filter for Air Filtration Systems. JAE HAK SHIN, So Yeong Kim, In Ho Kim, Ki Joon Heo, Gi Byoung Hwang, Jae Hee Jung, *Sejong University*

2BA.37 Comparison of Rutgers Electrostatic Passive Sampler (REPS) and Its Derivatives Across Different Bioaerosol Sampling Environments. NIVEDA THURAVIL, Taewon Han, Gediminas Mainelis, *Rutgers, The State University of New Jersey*

2BA.38 Potential Airborne Microorganism Transfer Into Medication Vials During Syringe-Based Drug Delivery. VIVIAN ACHAO SURGELAS, Taewon Han, Anthony Lenza, Anthony Weiburg, Gediminas Mainelis, *Rutgers, The State University of New Jersey*

2BA.39 Development of a Pathogen Air Quality (pAQ) Monitor for Real-Time Detection of Airborne Highly Pathogenic Avian Influenza. Dishit Ghumra, P. S. GANESH SUBRAMANIAN, Yuezhi (August) Li, Jash Saravia, Ananya Benegal, Joshin Kumar, Astha Joshi, Kuljeet Seehra, Meng Xu, Michael Vahey, Adrianus Boon, Rajan K. Chakrabarty, *Washington University in St. Louis*

2BA.40 Multi-Technique Approach for Characterizing Protein Nitration in Aqueous Pollen Protein Extracts. ALEX VOLKOVA, J. Alex Huffman, *University of Denver*

2BA.41 Bioaerosol Responses to Tropical Marine Cold Pools, Saharan Dust, and Sargassum. MARINA NIETO-CABALLERO, Kyra Britton, Nick Falk, Tana Gobble, Christine Neumaier, Madison Turner, Sonia Kreidenweis, Susan van den Heever, Sean Freeman, Leah Grant, Russell Perkins, *Colorado State University*

2CC AEROSOLS, CLOUDS, AND CLIMATE 2: POSTERS

EXHIBIT HALL AB

2CC.1 Aerosols and Urban Expansion Intensify Storms and Flood Risk in the Texas Triangle. PAOLA CRIPPA, Giacomo Moraglia, Mohamed Aboelnour, *University of Notre Dame*

2CC.2 Extreme Middle Eastern Dust Event over Metropolitan Mumbai, India, Associated with Enhanced Lightning Activity. ABHIJEET GANGANE, Deen Mani Lal, *Indian Institute of Tropical Meteorology, Pune, India*

2CC.3 Microphysical and Ice-Nucleating Properties of Aerosols Generated by Modern Cloud-Seeding Materials. AMIE DOBRACKI, Kaitlyn Suski, Anna Gannet Hallar, Maria Garcia, Ian B. McCubbin, Joseph Bail, Megan Ostlie, Gerardo Carrillo-Cardenas, Naruki Hiranuma, Andre Garcia, Jonathan Jennings, Swarup China, *Rainmaker Technology Corporation*

2CC.5 Photochemical Cloud Processing of Water-Soluble Organic Gases Produced by Aqueous-Phase Photooxidation of α-Pinene, d-Limonene and Toluene. MATT ZARAGOZA, Lisa Wingen, Sergey Nizkorodov, Annmarie Carlton, *University of California, Irvine*

2CC.7 **The U.S. DOE Atmospheric Radiation Measurement (ARM) User Facility: Observational Infrastructure for Advancing Aerosol and Atmospheric Process Research.** ADAM THEISEN, Olga Mayol-Bracero, Janek Uin, Scott Smith, Arthur J. Sedlacek, Ashish Singh, Maria A. Zawadowicz, Ogochukwu Enekwizu, Jessie Creamean, Sarah Petters, Markus Petters, Fan Mei, Peng Wu, John Shilling, Nicki Hickmon, *Argonne National Laboratory*

2CC.8 **Tracking Water Vapor Homogeneous Nucleation and Droplet Growth with Spectroscopy and Holography in a Free Expansion Cloud Chamber.** COLE SAGAN, Gwenore Pokrifka, Samuel M. Koblensky, Martin Erinin, Ilian Ahmed, Nadir Jeevanjee, Luc Deike, Marissa Weichman, *Princeton University*

2CC.9 **Interpretable Machine Learning of Aerosol Physicochemical and Environmental Controls on Cloud Condensation Nuclei.** WEIXING HAO, Manisha Mehra, Ruoyu Zhang, Fan Mei, Yang Wang, *University of Miami*

2CC.10 **Diurnal Observations Demonstrate Nighttime Abundance of Heat-Liable Biogenic Ice-Nucleating Particles in Bankhead National Forest.** KATIE CHAN, Jing Li, Darielle Dexheimer, Casey Longbottom, Pranav Dawar, Sarah Williams, Nurun Nahar Lata, Swarup China, *University of California Los Angeles*

2CC.11 **Quantitative Estimates of Upwind and Onsite Particle Scavenging and Retrieved Cloud Supersaturations from Urban Coastal Stratocumulus During EPCAPE.** JERAMY DEDRICK, Atsushi Osawa, Lynn M. Russell, Mark Miller, Lauren T. Robinson, Rachel Chang, Abigail Williams, Veronica Berta, Elavarasi Ravichandran, Markus Petters, Michael Wheeler, Sanghee Han, Christian Pelayo, Nattamon (Jeep) Maneenoi, Dan Lubin, Janek Uin, Ogochukwu Enekwizu, Maria A. Zawadowicz, Olga Mayol-Bracero, Cynthia Twohy, *Teledyne API*

2CC.12 **Characterization of Black Carbon Aerosols off the Coast of Southern California During the SCILLA Campaign.** Dongli Wang, Minghao Han, Bradley Ries, Roya Bahreini, Mikael Witte, Patrick Chuang, Anthony Bucholtz, Don Collins, ANDREW METCALF, *Clemson University*

2CC.13 **Selective Enrichment of Mineral Dust and Biogenic Particles in Ice-Nucleating Particles from Soil-Derived Particles Under Mixed-Phase Cloud Conditions.** NURUN NAHAR LATA, Gourihar Kulkarni, Alla Zelenyuk, Gregory W. Vandergrift, Ashfiqur Rahman, Ava Sealy, Naruki Hiranuma, Swarup China, *Pacific Northwest National Laboratory*

2CC.14 **Aerosol Microphysics Model Intercomparison and Machine Learning Emulation for Stratospheric Aerosol Injection.** ALI AKHERATI, Duncan Watson-Parris, Jeffrey R. Pierce, Daniele Visioni, Marianna Linz, *Reflective Org.*

2CC.16 **Carbonyl-Dependent Deliquescence in Brown Carbon Films Measured by Quartz Crystal Microbalance.** Kyra Harada Alcantara, Alex Hobrath, Stephanie Gonzalez, PAULA K. HUDSON, *California State University, Fullerton*

2CC.17 **Impact of Organosulfates Formation on Aerosol Hygroscopicity and Its Implications for Cloud Condensation Nuclei Activity in a Subtropical Forest.** XIANGXINYUE MENG, Ajith Thenoor Chandran, Kyle P. McCary, Alan R. Gonzalez, Heewon Yim, Yuzhou Wang, Qi Ying, Maria A. Zawadowicz, Yue Zhang, *Texas A&M University*

2CC.18 **Cold-Stage System for Impact-Initiated Contact Freezing Experiments (C-ICE): Quantifying Contact Freezing of Ice-Nucleating Particles.** JINGCHUAN CHEN, Upasna B. Rai, Kyle McMillan, Ryan Davis, Margaret Tolbert, Sarah D. Brooks, *Texas A&M University*

2CC.19 **Cloud-Adjacent Vertical and Horizontal Heterogeneity of Aerosol Composition over Southeastern US Forest.** SIJIA LIU, Gregory W. Vandergrift, Zezhen Cheng, Nurun Nahar Lata, Ashfiqur Rahman, Zhenli Lai, Xena Mansoura, Beat Schmid, Matthew A. Marcus, Alla Zelenyuk, Celia Faiola, Sergey Nizkorodov, Fan Mei, Damao Zhang, Swarup China, *Pacific Northwest National Laboratory*

2CC.21 **Human-Disagreement-Aware Machine Learning for New Particle Formation Event Classification from Size-Time Matrices.** RUOYU ZHANG, Yang Wang, Wenyu Chu, Manisha Mehra, Weixing Hao, *University of Miami*

2CC.22 **Impact of Future Climate Conditions on Aerosol Formation.** CHRISTIAN MARK SALVADOR, Meng-Dawn Cheng, Jonathan Stelling, Kyle Pearson, Mark Guilliams, Paul Hanson, *Oak Ridge National Laboratory*

2CC.25 Development of a Machine Learning Surrogate to Improve Predictions of Aerosol-Cloud Interactions. ORIOLE SONG, Regina Luu, Kieudiem Nguyen, ManishKumar Shrivastava, Manabu Shiraiwa, Celia Faiola, *University of California, Irvine*

2CC.26 Evaluating Aerosol Classification and Radiative Forcing Effects Using Ground-Based AERONET Observations. SWAGATA MUKHOPADHYAY, Shantikumar Singh Ningombam, *Indian Institute of Astrophysics, Bengaluru*

2CC.27 Organic Aerosol Composition and Particle Size Distributions Influence Composition-Based Aerosol Hygroscopicity Estimates. VERONICA BERTA, Lynn M. Russell, Jeramy Dedrick, Christian Pelayo, Abigail Williams, Sanghee Han, Atsushi Osawa, Ryan Farley, Allison Aiken, Elavarasi Ravichandran, Markus Petters, *Scripps/ University of California San Diego*

2CC.28 Investigating Marine Aerosol Populations and Cloud Condensation Nuclei over the Northeast Pacific Using Autonomous Ship-Based Measurements During BEACONS. VERONICA BERTA, Lynn M. Russell, Derek Coffman, Hanna Best, Timothy Bates, Raghavendra Krishnamurthy, *Scripps/University of California San Diego*

2IA INDOOR AEROSOLS 1: POSTERS

EXHIBIT HALL AB

2IA.1 Finite Size Effects and Breakdown of Ensemble Equivalence in Indoor PM2.5 Systems. Buddhi Pushpawela, ISHIKA SINGH, Isabella Brooks, *The University of Alabama in Huntsville*

2IA.2 Isothermal-Isobaric Versus Grand Canonical Descriptions of Indoor PM2.5 Fluctuations Under Variable Ventilation. Buddhi Pushpawela, ISABELLA BROOKS, Ishika Singh, *The University of Alabama in Huntsville*

2IA.3 Longitudinal Patterns of Synergistic Environmental Quality in Educational Settings: Thermodynamic Conditions, Ventilation Performance and PM Exposures in K-12 Classrooms. DORIAN SCHWARTZ, Nasim Ildiri, Kristina Petrov, Anna Segur, Mark Hernandez, *University of Colorado Boulder*

2IA.4 Sensor Transfer Strategy to Calibrate Low-Cost Particulate Matter Sensors: Investigating the Performance of Several Low-Cost and Mid-Cost Sensors. JALIL MOKHTARIAN MOBARAKEH, Meghan Megowan, Sara Jones, Perry Hystad, Molly Kile, Parichehr Salimifard, *Oregon State University*

2IA.5 Optimizing Sensor Placement for Whole-House PM2.5 Exposure Estimation: A Combinatorial Analysis of a Multi-Zone Residential Network. Nikhil Sachidanandan, MARINA VANCE, *University of Colorado Boulder*

2IA.7 Particle Characterization of Indoor Surface Dust Collected from Surviving Houses near a Wildland-Urban Interface (WUI) Fire. ZHONG-MIN WANG, Jeff Wagner, Kazukiyo Kumagai, Suzaynn Schick, *California Department of Public Health*

2IA.8 Indoor and Outdoor PM2.5 and CO Measurements in Chilean Homes Heated with Wood, Pellet, and Kerosene Systems. BLANCA ESTELA RÍOS RAMOS, Oscar Loyola Valenzuela, Maximiliano Lopez, Darlyn Tapia, *Universidad Mayor*. INVITED.

2IA.9 Cotton Clothing as a Dynamic Reservoir Driving Re-Emission of Indoor Gaseous Chemicals Across Spaces. YUNFEI JIA, Jenna Ditto, *Washington University in St. Louis*

2IA.10 Degradation of Tobacco-Specific Nitrosamines on Indoor Surfaces Induced by Ozone. XIAOYANG LIU, Haofei Zhang, *University of California, Riverside*

2IA.11 Indoor Aerosol Formation from VOC Autoxidation: A Coupled CFD–Chemistry Study. Donghyun Rim, SUWHAN YEE, *Pennsylvania State University*

2IA.12 **Germicidal Far-UVC Lamps with Cooking, Cleaning, and Personal Care Products in an Office.** TAEHYUN PARK, Tyson Berg, Morgan Selby, Jose Hernandez, Jienan Li, Delphine K. Farmer, *Colorado State University*

2IA.13 **Assessing the Relative Impacts of Burning Different Wood Species with Varying Moisture Content in a Wood Stove on Indoor Air Quality in Cold Climate Regions.** ABHISHEK SINGH, Srijan Aggarwal, Raghu Betha, Jenno Joseph-Leenose-Helen, *University of Alaska - Fairbanks*

2IA.14 **Multi-Parameter Characterization of Indoor Air Quality in an Oklahoma Medical Cannabis Cultivation Facility.** Hongwan Li, YAO YANG, *University of Oklahoma Health Campus*

2IA.15 **A Data-Driven Systematic Review of Outdoor and Indoor Air Quality During Wildfire Smoke Events: Infiltration and Effective Mitigation Strategies.** MD. ALINUR RAHMAN, Daud Nosham, Josephine Lau, Nishit Shetty, *University of Kansas*

2IA.16 **Long-Term Simultaneous Monitoring of Indoor and Outdoor PM1.0, PM2.5, and PM10 in the San Francisco Bay Area.** KAYCIE NUCKLES, Christopher J. Hogan, *University of Minnesota*

2IA.17 **Using Particle Size Distribution for Indoor Source Identification: A Neural Net Method.** KAI-CHUNG CHENG, Gan Huang, *San Diego State University*

2IA.18 **Remediating Thirdhand Smoke in Gypsum Wallboard: Coatings vs. Ozonation.** XIAOCHEN TANG, Marion Russell, Hugo Destaillats, *Lawrence Berkeley National Laboratory*

2IA.19 **Far-UVC Fluence Rate Controls Sub-10 nm Nanoparticle Nucleation and Growth During Household Cleaning with a Limonene-Based Product.** BRIAN MAGNUSON, Shohoria Afrin Shorno, Ernest Blatchley III, Nusrat Jung, Brandon E. Boor, *Purdue University*

2IM INSTRUMENTATION AND METHODS 1: POSTERS

EXHIBIT HALL AB

2IM.1 **Comparative Performance of an Orbitrap MS and an APi-TOF MS for the Analysis of Aerosol Nanoclusters.** COLLEEN MILLER, Paulus Bauer, Véronique Perraud, Ivo Neefjes, Dina Alfaouri, Yosef Knattrup, Avery Dalton, Jonas Elm, Nanna Myllys, James Smith, *University of California, Irvine*

2IM.2 **Integrated Design and Performance Assessment of a Compact Cyclone-Virtual Impactor Band-Pass Sampler for Submicron Aerosol Collection.** SUMAN DEWANJEE, Vikas Goel, Nipun Thamatam, Gabriel Isaacman-VanWertz, Masoud Agah, *Virginia Tech*

2IM.3 **AVL Condensation Particle Counter Characterisation.** VICTORIA FRUHMANN, Helmut Krasa, Markus Knoll, Martin Cresnoverh, Johannes Murg, Alexander Bergmann, *Graz University of Technology*

2IM.5 **Performance Evaluation of Community-Level Air Quality Monitors in Urban and Rural Settings in New Jersey, USA.** SEYEDEH REYHANEH SHAMS, Jackie Park-Albaum, John Evangelista, Clinton J. Andrews, Jie Gong, Sunyoung Kim, Deborah Plotnik, Jennifer Senick, Gediminas Mainelis, *Rutgers, The State University of New Jersey*

2IM.6 **Indoor PM2.5 Prediction Using a Mass Balance-Informed Deep Learning Model.** Lam Khang Nguyen Duy, Minh T.N Nguyen, Thanh H. Nguyen, Dung D. Le, Phong Thai Khanh, Hung Hai Pham, Vishal Verma, NHAN DINH NGO, *VinUniversity, Hanoi, Vietnam*

2IM.7 **Single Particle Analysis of Model Human Respiratory Aerosols with In-Situ Transmission Electron Microscopy.** MARTIN AHN, Alex Hall, Akua A. Asa-Awuku, Taylor J. Woehl, *University of Maryland, College Park*

2IM.8 **Laser-Induced Incandescence Uncertainty Quantification for Soot Sizing in Time-Resolved Measurements Using Variance Decomposition.** EVANGELOS K. STEFANIDIS, Mark McKinnon, *UL Research Institutes-Fire Safety Research Institute (FSRI)*

2IM.9 **Simplified Aerodynamic Sizing for Coarse Particles.** SUSANNE HERING, Stavros Amanatidis, *Aerosol Dynamics Inc.*

2IM.10 **Autonomous Low-Cost Ozone and PM2.5 Sensors to Study Spatiotemporal Distribution and Exposure in the Central Valley in California.** AKSHAY KUMAR GUNNIAH VIJAYAKUMAR, Shantanu Jathar, Torria Colpitts, *Colorado State University*

2IM.11 **Development of an Offline Aerosol Mass Spectrometry Method for Organic Aerosol Characterization in a Globally Distributed Surface Particulate Matter Network.** YUXUAN REN, Randall Martin, Jhao-Hong Chen, Christopher Oxford, Brent Williams, Rodney J. Weber, Lu Xu, *Washington University in St. Louis*

2IM.12 **Assessing the Performance of the Teledyne Model T640/X Alignment Factor in Climate-Distinct Regions Across the United States.** KEELIE N. STEINER, Benjamin A. Nault, Peter F. DeCarlo, *Johns Hopkins University*

2IM.13 **Twelve Year Summary of Particulate Matter Sensor Performance Evaluations.** WILTON MUI, Namrata Shanmukh Panji, Noel Ruiz, Xiaobi M. Kuang, Brandon Feenstra, *South Coast Air Quality Management District*

2IM.14 **Air Across Texas: An Educational Program on Air Quality Using Low-Cost Sensors for High School Students from Across Texas.** KARIN ARDON-DRYER, Jessica Spott, Rodolfo Hernandez, Melodie Martinez-Manahan, Allison Eubanks, Tiberio Garza, *Texas Tech University*

2IM.15 **Detecting Oleic Acid + NO3 Aerosol Reaction Products with Mid-IR Dual Comb Spectroscopy in a Novel, Laser-Coupled Aerosol Chamber.** LEO BLOXHAM, Anna Ziola, Douglas A. Day, Anne V. Handschy, Garrett Mathews, Alyssa Lalko, Kevin Williamson, Amanda Makowiecki, Masayuki Takeuchi, Daven Henze, Satoshi Takahama, Paul Ziemann, Gregory Rieker, Jose-Luis Jimenez, *University of Colorado Boulder*

2IM.16 **A Gas Chromatograph-Chemical Ionization Mass Spectrometer for Isomer-Resolved, Field-Deployable Measurements of Airborne PFAS.** CHENYANG BI, Yufan Hu, Joji Sherman, Michael Davern, Mitchell Alton, Anita Avery, Nathan Kreisberg, Barbara Turpin, John Jayne, Jason Surratt, Manjula Canagaratna, *Aerodyne Research, Inc.*

2IM.17 **Nozzle-Based Method for the Breakup of Solid Aerosol Clusters.** DARREN CHENG, Miranda Hack, V. Faye McNeill, *Columbia University*

2IM.18 **Trajectory-Based Monitoring Network for Identifying the Causes of Air Pollution.** DANIEL HLADKÝ, Vladimíra Volná, *Czech Hydrometeorological Institute*

2IM.19 **Investigating the Relative Humidity-Dependence of Effective Particle Density for Model Aerosol Systems.** MIA KAUFFMAN, Cara Waters, Evan Dalton, Andrew P. Ault, *University of Michigan*

2IM.20 **Computational Integrated CFD and Experimental Evaluation of RASA and Reference Sampler Location-Based Performance in a Large Wind Tunnel.** DMITRI KUCHEROV, John Cate, Sunil Kumar, Ahmad Kalbasi-Ashtari, Michael Omana, Maria King, *Texas A&M University*

2IM.21 **Improved Quantification of CCN Measurements by Gaussian Peak Fitting of Drop Size Distributions.** SOURITA SAHA, Lynn M. Russell, Darrel Baumgardner, Greg Roberts, Markus Petters, Richard Leaitch, Elisabeth Andrews, *Scripps Institution of Oceanography*

2IM.22 **Fluorescence-Based Photothermal Infrared Spectroscopy Methods for the Detection of Aerosolized Microplastics and Nanoplastics.** RANDI LIBIN-STRAUB, Wilson Chen, Abbygail Ayala, Andrew P. Ault, *University of Michigan*

2IM.23 Dynamic Shape Factors and Electron Tomography for the Assessment of Submicron Aerosol 3D Morphology. BRUNO LOYOLA SAN MARTIN, Martin Ahn, Akua A. Asa-Awuku, *University of Maryland, College Park*

2IM.24 Using Size-Based Classifiers in Tandem to Calibrate and Infer Mixing State with an Aerosol Mass Spectrometer. NISHAN SAPKOTA, Julia Zaks, Anand Kumar, Changda Wu, Timothy Sipkens, Joel Corbin, Allan K. Bertram, Steven Rogak, *University of British Columbia*

2IM.25 Characterizing CVS Tunnel Background and Measurement Uncertainties for Ultra-Low PM Emissions Using a Low-Cost Wireless Sensor. ISHARA JAYASURIYA, Kevin Denton, Tim Gernant, Sreekesh Kookkal, Suresh Dhaniyala, *Ford Motor Company*

2IM.26 Flow Imaging Microscopy Method for Rapid and High-Throughput Measurement of Fiber Count and Length Distributions. BON KI KU, Pramod Kulkarni, *Centers for Disease Control and Prevention, NIOSH*

2IM.27 Substrate Photochemical Aging Reaction Chamber (SPARC): A New Capability to Study Aging-Induced Physical and Chemical Changes of Organic Aerosols. JILLARD DE FIESTA, Sining Niu, Gregory W. Vandergrift, Alla Zelenyuk, Swarup China, Zezhen Cheng, Yuzhi Chen, *Pacific Northwest National Laboratory*

2IM.28 Uncertainties in Quantification of Crystalline Silica in Aerosols Using Infrared Spectroscopy and X-Ray Diffraction Methods. KABIR RISHI, Orthodoxia Zervaki, Bon Ki Ku, Chen Wang, Pramod Kulkarni, *Centers for Disease Control and Prevention, NIOSH*

2IM.29 WALL-E Goes Dual: Gas-Particle Characterization of Atmospheric Aerosol by Coupled Chemical Ionization Mass Spectrometry. Imad Zgheib, Sebastien Perrier, Evan Lesne, Manjula Canagaratna, MATTHIEU RIVA, *CNRS-IRCELYON*

2IM.30 Investigating the Relationships Between Gas-Phase Pollutants and PM with a Low-Cost Sensing Network. CHIARA PESCE, MiKyla Harjamaki, Michael Hannigan, *University of Colorado Boulder*

2IM.31 The Next Generation of Nano Particle Production: Various Materials and Automated CPC Calibrations with the Silver Particle Generator. MAXIMILIAN DOLLNER, Paulus Bauer, Vinicius Berger, Hans-Joachim Schulz, Adam Boies, Jacob Swanson, *Catalytic Instruments GmbH & Co.KG*

2IM.32 Thermal Pretreatment-Enhanced Optical Contrast for Real-Time Single-Particle Bioaerosol Classification. IN HO KIM, Joon Young Park, Jae Hak Shin, Jae Hee Jung, *Sejong University*

2IM.33 Intercomparison of PM Measurements by the BlueSky Air Quality Sensor and Comparison of Ambient Ozone and Nitrogen Dioxide Measurements with Reference Sensors. SADIE MORLEY, Zoe Lynch, Erick Mattson, Alina Pantano, J. Alex Huffman, *University of Denver*

2IM.34 Evaluating PurpleAir Flex and SD Sensor Performance for Particulate Matter Monitoring After 2.5 Years of Ambient Deployment at the University of Denvers Kennedy Mountain Campus. Tatiana Peccedi, Sasha Gisi, Riley Smith, SADIE MORLEY, Ty Kaji, Erick Mattson, Alina Pantano, J. Alex Huffman, *University of Denver*

2RM REMOTE AND REGIONAL ATMOSPHERIC AEROSOL 2: POSTERS
EXHIBIT HALL AB

2RM.1 Using Remote Sensing to Assess Uranium Dust Exposure from Abandoned Uranium Mines on the Central Region of the Navajo Nation. LEESHIYA JAMES, *Northern Arizona University*

2RM.2 Identifying the Causes of Air Pollution (Impossible Without Meteorology). VLADIMÍRA VOLNÁ, Daniel Hladký, *Czech Hydrometeorological Institute*

2RM.3 **Light Absorption Characteristics of Brown Carbon over the Bay of Bengal.** ASHISH SONI, Shivdas Bankar, Pawan S. Soyam, Thara Prabhakaran, Sudarsan Bera, Sachin Patade, Neelam Malap, P. Murugavel, Sunil Sonbawne, Craig M. Lee, *Indian Institute of Tropical Meteorology*

2RM.4 **Shading the Sun, Brightening the Streets: Assessing the Relationship Between AOD, Surface Albedo, and LST Across Los Angeles, California.** KATHERINE ALFORD, *Northern Arizona University*

2RM.5 **Updating Dry Deposition Parameterization with New Marine Flux Measurements.** SARA NIELSON, Rutambhara Joshi, Roman Liedtke, Ricardo Pena, Delphine K. Farmer, *Colorado State University*

2RM.6 **A Theoretical Study on Transport and Deposition of Airborne Microplastics.** MCKENZIE SWINDLE, Kelly Lazar, Andrew Metcalf, *Clemson University*

2RM.7 **Spatial Analysis and Source-Investigation of Aerosols in a Legacy Anthracite Coal Region (Shamokin, PA).** Douglas Collins, Shaunna Barnhart, Brian King, Sean Koranteng, Iniyan Lourderaj, Calvin McGuire, Zoey Spang, Samuel Tuffour, DABRINA DUTCHER, *Bucknell University*

2RM.8 **Comparing Gems Aerosol Optical Properties with DC 8 in Situ Measurements Across the Asia AQ Domain.** SAYANTEE ROY, Francesca Gallo, Elizabeth Wiggins, Luke Ziemba, Carolyn Jordan, Edward Winstead, Michael Shook, Richard Moore, *NASA Langley Research Center*

2RM.9 **The University of Wisconsin-Madison Space Science and Engineering Center Portable Atmospheric Research Center (SPARC).** MIGUEL HILARIO, Mónica B. Pabón Hernández, Jonathan Gero, Edwin Eloranta, Robert Holz, Zachary Buckholtz, Timothy Wagner, Erik Olson, Mark Mulligan, *University of Wisconsin-Madison*

2RM.10 **A Data-Driven Airshed Framework with High-Resolution Downscaling for Improved PM2.5 Estimation.** MOHAMMAD ZAID, Manoranjan Sahu, *Indian Institute of Technology Bombay*

2RM.11 **Spatializing Long-Term Multi-Site Particle Size Distribution Measurements with Satellite Data for Gridded Particle Number Exposure and Mortality Estimation in Taiwan.** CHIH-YU CHAN, Jun-Fa Ye, Jian-Xian Wu, Shi-Ya Tang, Li-Hao Young, Tse-Lun Chen, Si-Chee Tsay, Ta-Chih Hsiao, *National Taiwan University, Taiwan*

2RM.12 **Simulations of Secondary Organic Aerosol Formation Using CMAQ-UNIPAR During the 2024 ASIA-AQ Campaign.** GANGHAN KIM, Myoseon Jang, *University of Florida*

2RM.13 **Modeling Atmospheric PFAS Fate and Transport from Waste and Industrial Sources Across Ohio.** DEEPSHIKHA OLA, Andrew A. May, *The Ohio State University*

2RM.14 **Characteristics of New Particle Formation over the Arctic Ocean by Shipborne Measurements.** Kihong Park, HYUNGJIN CHO, Haebum Lee, Jiyeon Park, Young Jun Yoon, *Gwangju Institute of Science and Technology*

2RM.15 **Single-Particle Characterization of Aerosol Physicochemical Mixing State in the Southeastern United States.** HOLLY LAWSON, Xu He, Rachel O'Brien, Andrew P. Ault, *University of Michigan*

2RM.16 **Characterizing Organic Aerosols in Barbados Using Optical Photothermal Infrared and Raman Spectroscopy.** CAROLINE LEE, Rebecca L. Parham, Kayleigh Reilly, Sujan Shrestha, Phoebe Scharle, Randi Libin-Straub, Cassandra Gaston, Andrew P. Ault, *University of Michigan*

2RM.17 **Ambient Gas-Phase Water-Soluble Organic Carbon in the High Desert of Joshua Tree National Park.** BRYNNA SELIGMAN, Madison Landi, Sergey Nizkorodov, Annmarie Carlton, *University of California, Irvine*

2TA INTERPLAY BETWEEN AEROSOL THERMODYNAMICS AND AGING 1: POSTERS
EXHIBIT HALL AB

2TA.1 **Photochemical Aging of Dark Brown Carbon Aerosols: Changes in Light Absorption and Cloud Activation.** SHU-WEN YOU, Taveen S. Kapoor, Prabhav Upadhyay, Li-Ti Chou, Zezhen Cheng, Alla Zelenyuk, Amna Ijaz, Gregory W. Vandergrift, Gourihar Kulkarni, Sining Niu, Ta-Chih Hsiao, Swarup China, Rajan K. Chakrabarty, *Washington University in St. Louis*

2TA.2 **Physicochemical and Toxicological Effects of Size-Selected Soot as a Function of Atmospheric Aging.** YASH DHANSARE, Shubham Sunil Sharma, Shu-Wen You, Joseph V. Puthussery, Benjamin Kumfer, Rajan K. Chakrabarty, *Washington University in St. Louis*

2TA.3 **Turbulence, Droplet Activation, and Aqueous IEPOX-SOA Chemistry: Millimeter-to-Cloud-Scale Insights from the MTU Pi Chamber.** MANISHKUMAR SHRIVASTAVA, Andreas Zuend, John Shilling, Steven Krueger, Yuzhi Chen, Alla Zelenyuk, Richard Flagan, Anthony S. Wexler, Raymond Shaw, Will Cantrell, Jie Zhang, Mikhail Ovchinnikov, Gourihar Kulkarni, Mikhail Pekour, Hamed Sadi, Jesse Anderson, Jaemin Yeom, Jason Surratt, Avram Gold, Suryadev Singh, James Simmons, *Pacific Northwest National Laboratory*

2TA.4 **Single-Particle Measurements of Optical Properties in Aqueous Brown Carbon Systems.** PRAKRITI SINGH, Erin Bowey, Malsha Amugoda, Pedro De Allende, James F. Davies, Paula K. Hudson, *University of California, Riverside*

2TA.5 **Chemical Aging of Methylglyoxal-Glycine Aqueous Brown Carbon Aerosol as a Function of RH.** ERIN BOWEY, Prakriti Singh, Malsha Amugoda, Pedro De Allende, Paula K. Hudson, James F. Davies, *University of California, Riverside*

2TA.7 **Photochemical Aging of Biomass Burning Organic Aerosols: Phase-Dependent Evolution of Optical Properties.** AARON HARRISON, *Trinity University*

2TA.8 **Atmospheric Evolution of Organic Aerosol During Long Range Transport of Wildfire Plumes in North America.** UMA PUTTU, Sumit Gupta, Shengqian Zhou, Jian Wang, Lu Xu, *Washington University in St. Louis*

2TA.9 **Molecular Composition and Optical Properties of Biomass-Burning Water-Soluble-Organic-Carbon.** HANNAH FOLARIN, Diego Calderon-Arrieta, Jessica Knull, Sydney Spees, Julius Ese, Alexander Laskin, *Purdue University*

2TA.11 **Investigating the Role of Aerosol Acidity in the Heterogeneous Oxidation of Organic-Inorganic Aqueous Particles.** SHAIMA THADIYAMPURATH, Haofei Zhang, *University of California, Riverside*

2TA.12 **Revisiting Multiphase Reactions in Deliquesced Aerosol Particles in the Presence of NO2 and SO2.** NANAMI EMORI, Masao Gen, *Chuo University*

2TA.13 **A Multilayer Diffusion Framework for Particle-Resolved Modeling of Multiphase Aerosol Chemistry.** JESSICA GASPARIK, Daniel Knopf, Nicole Riemer, Matthew Dawson, Jeffrey H. Curtis, *Stony Brook University*

2TA.14 **Probing Charge-Driven Changes in Interfacial Properties of Microdroplets.** FIROZ AHMED, Rebika Tamang, Michael Jacobs, *Texas State University*

2TA.15 **In Situ Characterization of Secondary Organic Aerosol Physicochemical Properties via Fluorescence Probe Spectroscopy.** MICHAEL BOADU, Paul Ohno, *Auburn University*

2TA.16 **Detection and Comparison of Organic Peroxides Across Biogenic Secondary Organic Aerosol via Iodometry-Assisted High-Resolution Mass Spectrometry.** MARIA FLORES, Erik Jackson, Véronique Perraud, Lisa Wingen, Sergey Nizkorodov, Celia Faiola, *University of California, Irvine*

2TA.17 **Evolution of Organic Aerosol in near Field Wildfire Smoke.** SUMIT GUPTA, Pedro Campuzano-Jost, Jose-Luis Jimenez, Hongyu Guo, Melinda Schueneman, Lu Xu, *Washington University in St. Louis*

2TA.18 Investigating the Chemical Evolution of Biomass Burning Emissions from Tall Wheatgrass and Longleaf Pine Needles via Daytime (OH) and Nighttime (NO3) Oxidation. MATSON POTHIER, Ed Fortner, Yuzhi Chen, Zezhen Cheng, Andrew Lambe, *Aerodyne Research Inc.*

2UA URBAN AEROSOLS 2: POSTERS
EXHIBIT HALL AB

2UA.1 Mapping Microbial Exposure in Urbanized Arid Environments Through the Integration of Dust Regimes and Meteorological Parameters. AZHAR SIDDIQUE, Kashif Rasool, Shamjad Moosakutty, Bilal Sajjad, M. Rami Alfarra, *Hamad Bin Khalifa University, Doha, Qatar*

2UA.2 Investigating the Relative Performance of PurpleAir and QuantAQ Modulair PM Sensors in Los Angeles as a Function of Aerosol Chemical Composition and Particle Size Distribution. JULIE MEDERO, Lelia Hawkins, Aadi Biswas, Rosemary Garcia, Dominick Gordon, Connor Seto, Alice Yuan, *Harvey Mudd College*

2UA.3 Characterization of Fresh and Aged Structural Fire Emissions. MARYAM GHADIMI, Hovanness Dingilian, Thomas Eckel, Yanyu Zhang, David R. Cocker, *University of California, Riverside*

2UA.4 Characterizing Spatial Heterogeneity in Particulate Matter Using Paired Stationary and Mobile Measurements in Chester, PA. ALEC PIRONE, Benjamin A. Nault, Ellis Robinson, Mina Tehrani, Benjamin Werden, Kirsten Koehler, Keeve Nachman, Ana Rule, Ed Fortner, Tara Yacovitch, Peter F. DeCarlo, *Johns Hopkins University*

2UA.5 Polluted Tijuana River Emissions as a Point Source for New Particle Formation. JUSTIN HAMLIN, Benjamin Rico, Jena Herbst, Robert Pomeroy, Kimberly Prather, *University of California San Diego*

2UA.7 Enhanced Measurements of PM2.5 Chemical Composition and Size Distribution in Wilmington, California: II. Preliminary Results from Xact, SMPS, and Aethalometer. CHRISTOPHER LIM, Yumeng Cui, Zihan Zhu, Joseph Salazar, Julia Montoya-Aguilera, Steven Boddeker, Provat Saha, Richard Poon, Jeremy Huff, Sina Hasheminassab, Roya Bahreini, Nga Lee Ng, Eric Holden, Mohammad Sowlat, Payam Pakbin, Stephen Dutz, Jason Low, *South Coast Air Quality Management District*

2UA.8 Enhanced Measurements of PM2.5 Chemical Composition and Size Distribution in Wilmington, California: I. Preliminary Results of Aerosol Chemical Speciation Monitor (ACSM) Measurements. YUMENG CUI, Christopher Lim, Zihan Zhu, Joseph Salazar, Julia Montoya-Aguilera, Steven Boddeker, Provat Saha, Richard Poon, Jeremy Huff, Sina Hasheminassab, Roya Bahreini, Nga Lee Ng, Eric Holden, Mohammad Sowlat, Payam Pakbin, Stephen Dutz, Jason Low, *South Coast Air Quality Management District*

2UA.9 Long-Term Trends of PM10-Bound PFAS in Lyon, France (2015-2025). ALEXANDRE ALBINET, Julie Cozic, Albane Barbero, Amandine Fievet, Robin Aujay-Plouzeau, Olivier Favez, Morgane Salomon, Claudine Chatellier, Yohann Baillon, Farid Ait-Ben-Ahmad, Nathalie Bianchini, Nina Huynh, Ahmad El Masri, Ibrahima Diallo, *INERIS*

2UA.10 Gas-Phase Organic Compound Emissions from Urban Wastewater Treatment Plant Sludge and Implications for Air Quality. Jiasi Sun, YINGXI LU, Zhen (Jason) He, Jenna Ditto, *Washington University in St. Louis*

2UA.11 Urban Ultrafine Particle Measurements in Europe and California: Insights from Harmonized Monitoring. Johannes Murg, PETRA KOTNIK, Janice Lam Snyder, Alberto Ayala, *AVL List GmbH, Graz – 8020, Austria*

2UA.12 Hyperlocal Mobile Monitoring of Particle-Bound Metals in South Los Angeles. ZIHAN ZHU, Yumeng Cui, Joseph Salazar, Steven Boddeker, Christopher Lim, Provat Saha, Julia Montoya-Aguilera, Mohammad Sowlat, Payam Pakbin, Stephen Dutz, Jason Low, *South Coast Air Quality Management District*

2UA.13 Short-Term Particulate Matter Concentration Increases Observed by Low-Cost Sensors Downwind of Nightly Fireworks from a Theme Park in Orange County, California. DANIEL B. CURTIS, Anita Abazi, Johana Sosa, Jane Pasa, Mayra Acevedo, Tyler Deflin, Zeinab Khalil, Man Bui, Angela Escamilla, *California State University, Fullerton*

2UA.15 **Drivers of Regional Variation in Summertime PM2.5 Across Midwest and Northeast US Cities from 2005-2025.** Erika Hosokawa, HANNAH KENAGY, *University of Minnesota*

2UA.16 **Characterization of New Particle Formation from a Composting Site Using Horizontal Flux Measurements.** SANGHEE HAN, Lintong Cai, Ella Ivanova, Nicholas Meskhidze, Markus Petters, *University of California, Riverside*

2UA.17 **Spatial and Temporal Variability of PM2.5 Composition and Sources in California's San Joaquin Valley: Insights from a Multi-Year Study in Fresno and Bakersfield.** CHRISTOPHER NIEDEK, Ashutosh Kumar Shukla, Justin Trousdell, Ryan Farley, Wenqing Jiang, Chinmoy Sarkar, Morteza Amini, Qi Zhang, *University of California, Davis*

2UA.18 **Smog Pollution in Lahore: Causes, Consequences, and Control.** HAIDER KHWAJA, M. Akhyar Farrukh, Nimra Afzal, Muhammad Kamran Khan, Saiyada Shadiah Masood, Mirza M. Hussain, *University at Albany*

2UA.19 **Investigation of Site-Specific Chemical Driver of PM2.5 Oxidative Potential Predictability Using Explainable Machine Learning.** NHAN DINH NGO, P. S. Ganesh Subramanian, Yuhui Zhai, Lam Khang Nguyen Duy, Vishal Verma, *University of Illinois Urbana-Champaign*

2UA.20 **Assessment of Air Quality Parameters in Elizabeth, New Jersey Using Community-Scale Air Quality Monitoring Network: Initial Observations.** SEYEDEH REYHANEH SHAMS, Jackie Park-Albaum, John Evangelista, Clinton J. Andrews, Jie Gong, Sunyoung Kim, Deborah Plotnik, Jennifer Senick, Gediminas Mainelis, *Rutgers, The State University of New Jersey*

2UA.21 **New Insights Into Reduced Nitrogen Species Across Gas and Particle Phases in Agriculturally Influenced Urban Air Using Acetone-Ionization CIMS.** WENQING JIANG, Ashutosh Kumar Shukla, Harald Stark, Anita Avery, Mitchell Alton, Manjula Canagaratna, Douglas Worsnop, Chinmoy Sarkar, Morteza Amini, Qi Zhang, *University of California, Davis*

2UA.22 **Time Evolution of Atmospheric Water Harvesting Quality: Implications for Storage and Treatment.** CARL ABADAM, Jace Chilcoat, Jay Kramer, Katelin Fisher, Rui Liu, Anjali Mulchandani, *University of New Mexico*

2UA.23 **Diurnal Variations and Photochemical Influences on Particle-Bound Environmentally Persistent Free Radicals in Subtropical Southern Taiwan.** YING I. TSAI, Wei-Cheng Weng, Chen-Shen Tu, Zhi-Yi Xu, Bo-Cheng Lin, Xuan-Yi Lin, Zhen-Lun Tseng, *Chia Nan University of Pharmacy and Science, Taiwan*

2UA.24 **Evaluating Brake-Wear Particulate Matter Emission Reduction Potential from Electric and Hybrid Vehicles.** MICHELIA DAM, Okjoo Park, Seungju Yoon, Yilin Ma, Wilson Chau, Shishan Hu, Gary Mikailian, Jorn Herner, *California Air Resources Board*

2UA.25 **Neighbors for Clean Air: Community-Based Monitoring of Airborne Metals in St. Paul, Minnesota.** Kristy Allen, Elizabeth Logas-Lindstrom, Jon Robelia, JACOB SWANSON, Fen Swanson, Danielle Swift, *Minnesota State University, Mankato*

Tuesday 3:00 PM - 3:30 PM
Coffee Break (Exhibit Hall AB)

Tuesday 3:30 PM - 5:00 PM
Session 3: Platform

3AP AEORSOL PHYSICS 3: INTERFACES AND SINGLE PARTICLE APPROACHES
BALLROOM AB – Alison Bain and Nathan Croll Dawes, chairs

3AP.1 3:30 **Turbulence, Surface Complexity, and Morphology Controls on Submicron Particle Dry Deposition: Insights from a Controlled Chamber Study.** JONAH HAZELWOOD, Markus Petters, Nicholas Meskhidze, *North Carolina State University*

3AP.2 3:45 **Time-Resolved Measurements of Nanolitre Droplet Fission in Strong Electric Fields.** NATHAN CROLL DAWES, Anish Doshi, Jim Walker, Bryan R. Bzdek, *University of Bristol*

3AP.3 4:00 **Using Photothermal Interferometry to Study the Heat Transfer from Single, Optically Trapped Droplets in the Transition Regime.** FELIX STOLLBERGER, Alexander Bergmann, *Graz University of Technology*

3AP.4 4:15 **Volatility of Perfluorinated Carboxylic Acids.** Catalina Botero-Carrizosa, Catherine Chang, Emily Halpern, ALEXANDER LASKIN, *Purdue University*

3AP.5 4:30 **Imaging Airborne Droplets: A Novel Instrument for Exploring Physical Changes in Aerosol Droplets Using Brightfield Imaging.** ANNA CATTON, Fraser Crawford, Jim Walker, Nathan Croll Dawes, Jonathan P. Reid, *University of Bristol*

3AP.6 4:45 **Impact of Nonionic Surfactants on Water Activity.** ALISON BAIN, *Oregon State University*

3BA BIOAEROSOLS 3: ADVANCES IN BIOAEROSOL SAMPLING, DETECTION, AND MONITORING
BALLROOM F – Gedi Mainelis and Drew Jones, chairs

3BA.1 3:30 **Water-Soluble Aerosol Collection Medium for Environmental Bioaerosol Collections.** KEVIN K. CROWN, Sean Kinahan, Gabriel A. Lucero, Eric Carnes, Yury Salkovskiy, Aleksandr Fadeev, Joshua L. Santarpia, *National Strategic Research Institute*

3BA.2 3:45 **Automated Airborne Viral Sampling Using an Electrostatic Particle Concentrator with a Conical Collection Electrode.** NHAN DINH NGO, Thanh H. Nguyen, Vishal Verma, *University of Illinois Urbana-Champaign*

3BA.3 4:00 **Turn It Up: Efficient and High Flow Rate Water Condensation Sampling of Bioaerosols.** DREW JONES, Adam Gillison, Emily Kraus, Kristin Rugh, Mark Hernandez, Marina Nieto-Caballero, Kenneth F. Reardon, Sonia Kreidenweis, Shantanu Jathar, *Colorado State University*

3BA.4 4:15 **Advancing Assessment of Personal Exposure to Viral Aerosols: Evaluation of Two Novel Samplers.** XING LI, Taewon Han, Gediminas Mainelis, *Rutgers, The State University of New Jersey*

3BA.5 4:30 **Continuous Aerosol-to-Liquid Bioaerosol Detection with Integrated Virtual Impactor, BioSpot-GEM, and Microfluidics.** QINGQING FU, Elizabeth A. Klug, Braden Stump, Bernard Olson, Joshua L. Santarpia, Christopher J. Hogan, *University of Minnesota*

3BA.6 4:45 **Towards Real-Time Identification of Pathogenic Bioaerosols.** JOSHUA L. SANTARPIA, Elizabeth A. Klug, Daniel N. Ackerman, Braden Stump, Christopher J. Hogan, Qingqing Fu, Bernard Olson, Dipanjan Pan, Nandhakumar Ponnusamy, Oguzhan Colak, Frankie Meyers, Ragheb El Khaja, Jessica W. Ware, Peter Mercredi, *University of Nebraska Medical Center*

3CC AEROSOLS, CLOUDS, AND CLIMATE 3: AEROSOL HYGROSCOPICITY, CCN ACTIVITY, AND CLOUD PROCESSING
BALLROOM H – Sarah Petters and Mara Shields, chairs

3CC.1 3:30 **Chemical Characteristics and Light Absorbing Properties of North African Smoke Transported to the Caribbean.** CASSANDRA GASTON, Sujan Shrestha, Phoebe Scharle, Jeffrey Reid, Mira Pöhlker, Andrew P. Ault, Robert Holz, Paquita Zuidema, Zezhen Cheng, Nurun Nahar Lata, Swarup China, Betsy Reid, Rebecca L. Parham, James Christie, Rebecca Chewitt-Lucas, Devon Blades, Edmund Blades, Alyson Allen, *University of Miami*

3CC.2 3:45 **Seasonal Differences in Contributions of Photochemical, Upwind Cloud and Aerosol Aqueous-Phase Oxidation and Mixed Combustion in Secondary Organic Aerosol Formation in Coastal Southern California.** VERONICA BERTA, Lynn M. Russell, Jeramy Dedrick, Abigail Williams, Sanghee Han, John Liggio, Michael Wheeler, Ryan Farley, Allison Aiken, Markus Petters, *Scripps/University of California San Diego*

3CC.3 4:00 **Urban-Rural Comparisons of Cloud Condensation Nuclei Activity in the Baltimore Region: Insights from the CoURAGE Campaign.** STEPHANIE JACOBY, Nahin Ferdousi-Rokib, Benjamin A. Nault, Peter F. DeCarlo, Christopher Hennigan, Kenneth Davis, Nicholas Prince, Jenni Kyrouac, Ashish Singh, Maria A. Zawadowicz, Ogochukwu Enekwizu, Akua A. Asa-Awuku, *University of Maryland*

3CC.4 4:15 **Photosensitized Reactions of Sulfate Ions in Aerosol Water Form Radical Oxidants, Secondary Brown Carbon, and Organosulfates.** ANGELINA PETERSEN, Zonghao Luo, Alair Wong, Ruiyang Xiao, Tran Nguyen, *University of California, Davis*

3CC.5 4:30 **Continuous Measurements of Gas-Phase Water-Soluble Nitrogen and Carbon During GOTHAAM Reveal Model Biases in Coastal Urban Reactive Nitrogen and Carbon Chemistry.** MADISON LANDI, Amir Babaei-Gharehbagh, Christopher Hennigan, Ellie Smith, Annmarie Carlton, *University of California, Irvine*

3CC.6 4:45 **The Distinct Multiphase Chemistry of PyroCb Beyond Typical Wildfires.** YUAN LIU, Lu Xu, *Washington University in St. Louis*

3IM INSTRUMENTATION AND METHODS 2: URBAN & EXPOSURE
BALLROOM C – Andrea Tiwari and Alla Zenlenyuk, chairs

3IM.1 3:30 **Advances in Fluorescence Probe Spectroscopy to Characterize Viscosity and Other Physicochemical Properties of Aerosols.** ANGEL GIBBONS, Victoria Cover, Paul Ohno, *Auburn University*

3IM.2 3:45 **Advancing Near-Real-Time Aerosol Analysis: Tandem Raman and Elemental Aerosol Spectrometer (TREAS).** ORTHODOXIA ZERVAKI, Kabir Rishi, Dominick Heskett, Wenjin Luo, Bryan Rainwater, Bon Ki Ku, Braden Stump, Pramod Kulkarni, *Centers for Disease Control and Prevention, NIOSH*

3IM.3 4:00 **Evaluation of Non-Refractory Chemical Composition on Low-Cost Sensor Performance.** SALVATORE MILLETICH, Kyle Aune, Abhirup Datta, Nahin Ferdousi-Rokib, Lei Hao, Misti Zamora, Benjamin A. Nault, Ayreanna Pettijohn, Keelie N. Steiner, Drew Gentner, Benjamin Zaitchik, Peter F. DeCarlo, Kirsten Koehler, *Johns Hopkins University*

3IM.4 4:15 **Direct Ambient Black Carbon Monitoring by Photoacoustic Spectroscopy.** JOHANNES MURG, Petra Kotnik, Sampsa Martikainen, Herbert Reingruber, *AVL List GmbH, Graz – 8020, Austria*

3IM.5 4:30 **Multi-Site Evaluation and Physical Correction of QuantAQ PM2.5 Measurements Using ASCENT Research Grade Measurements.** CAN BARUT, David Hagan, Ruizhe Liu, Sohyeon Jeon, Longkun He, Pengfei Liu, Haroula D. Baliaka, Ryan Ward, John Seinfeld, Richard Flagan, Bradley Ries, Erin Bowey, Gino Pena, Yumeng Cui, Roya Bahreini, Mitchell Rogers, Taekyu Joo, Tori Hass-Mitchell, Drew Gentner, Albert Presto, Seonsik Yun, Douglas A. Day, Jose-Luis Jimenez, Nga Lee Ng, *Georgia Institute of Technology*

3IM.6 4:45 **Streamlining Laboratory Calibration Methods for PM2.5 Sensors.** NAMRATA SHANMUKH PANJI, Xiaobi M. Kuang, Noel Ruiz, Leslie Garcia, Brandon Feenstra, Wilton Mui, *South Coast Air Quality Management District*

3RM REMOTE AND REGIONAL ATMOSPHERIC AEROSOL 2: REGIONAL AEROSOL PROPERTIES AND AIR QUALITY
BALLROOM DE – Dabrina Dutcher and Michael Milazzo, chairs

3RM.1 3:30 **From Rain to Reaction: How Moisture Drives Organic Acid Aerosols in a Rural Environment – Measurements from the CoURAGE Campaign at Mt. Airy Baltimore.** RAYAL SMITH, Esther Olonimoyo, Jemma Przybocki, Nahin Ferdousi-Rokib, Benjamin A. Nault, Peter F. DeCarlo, Christopher Hennigan, Akua A. Asa-Awuku, *University of Maryland*

3RM.2 3:45 **Chemical Aging of Organic Aerosols in the Atmosphere.** CHRISTINA VASILAKOPOULOU, Andreas Aktypis, Angeliki Matrali, Petro Uruci, Kalliopi Petrinoli, Nikolaos Mihalopoulos, Spyros N. Pandis, *University of Patras, Greece*

3RM.3 4:00 **Characterization of Aerosol-Depleted Regions in the Subarctic Ocean.** ANKITA MALU, Lintong Cai, Sunandan Mahant, Jefferson Snider, Markus Petters, *University of California, Riverside*

3RM.4 4:15 **Multi-Platform Evaluation of CMAQ Using TEMPO, ASCENT, and CIMS Observations over Atlanta: Diagnosing Model Biases in Secondary Aerosol Formation.** MERVE EKE, Weixin Zhang, Katherine Paredero, Soyoun Gwak, Yongtao Hu, Ruizhe Liu, Sohyeon Jeon, Roya Bahreini, Sean Raffuse, Ann M. Dillner, Greg Huey, Nga Lee Ng, Armistead G. Russell, *Georgia Institute of Technology*

3RM.5 4:30 **Global Modeling of Fluorescent Aerosol Particles with Machine Learning Reveals Potential Regional Anthropogenic Impacts.** YANHAO MIAO, Patrick K. H. Lee, *City University of Hong Kong*

3RM.6 4:45 **Molecular Aerosol Composition Within the Atmospheric Boundary Layer at the Southern Great Plains: Seasonal Signatures from Surface to Aloft Revealed by High-Resolution Mass Spectrometry.** HAOFEI ZHANG, Gregory W. Vandergrift, Darielle Dexheimer, Sean Murphy, Swarup China, *University of California, Riverside*

3UA URBAN AEROSOLS 3: TRAFFIC AND METAL RELATED SOURCES
BALLROOM G – Arthur Chan and Kyah Gracia, chairs

3UA.1 3:30 **Air Toxic Emission Profiles from Modern Tier II & Tier III Ocean-Going Vessels.** KYAH GRACIA, Thomas Eckel, Ryan W. Drover, J. Wayne Miller, David R. Cocker, *University of California, Riverside*

3UA.2 3:45 **Tire Wear Particles as a Source of VOCs: Emissions Under Controlled Laboratory Conditions.** VIKAS GOEL, Salahuddin Setu, Talha Jubair, Hosein Foroutan, Gabriel Isaacman-VanWertz, *Virginia Tech*

3UA.3 4:00 **Tire Derived Chemicals in Particulate Matter in the Near Road Atmosphere.** ARTHUR W. H. CHAN, Xing Wang, Alex K.Y. Lee, Colman Wong, Yushan Su, Bonnie Hamilton, Greg J. Evans, Cheol H. Jeong, Hayley Hung, Alexander Kasperkiewicz, *University of Toronto*

3UA.4 4:15 **Elucidating Year-Round Urban Source Contributions to Fine Particulate Metals at the New York City ASCENT Site.** MITCHELL ROGERS, Breanna van Loenen, Lijin Zhang, Tori Hass-Mitchell, Taekyu Joo, Drew Gentner, *Yale University*

3UA.5 4:30 **Uncounted Industrial Release Events Emissions Increase Estimated Cancer Risk in Houston: A Puff Dispersion Modeling Analysis.** ELLIE SMITH, Alexandra Pacheo, Ronald Cohen, Sally Pusede, Annmarie Carlton, *University of California, Irvine*

3UA.6 4:45 **High-Resolution Hybrid Modeling of Air Toxics over Disadvantaged Communities in Los Angeles.** Marc Carreras-Sospedra, Cui Ge, CALVIN HOWES, Jonathan Liu, Rui Zhang, Sang-mi Lee, *South Coast Air Quality Management District*

3UG UP-GOER 5 CHALLENGE 2
EXHIBIT HALL AB – Sam Kaufmann and Onyinye Ezeifeka, chairs

3UG.1 3:30 **Heads Up! How to Find Very Tiny Things in the Air with a Large Round Bag That Can Fly High in the Sky.** CHONGAI KUANG, Darielle Dexheimer, Casey Longbottom, Carlos Ruiz, *Brookhaven National Laboratory*. INVITED.

3UG.2 3:35 **When Do the Tiny Bits in a Forest's Air Grow Larger? Watch Which Way the Wind Blows.** CONNOR SETO, Chongai Kuang, Tamanna Subba, James Smith, *University of California, Irvine*

3UG.3 3:45 **Some People in Our State Take in Worse Air than Others with Small Bits from Inside and Outside Their Own Area.** LUCAS ROJAS-MENDOZA, *University of California Berkeley*

3UG.4 3:50 **Very Small Matter from Different Trees Icing the Sky.** REBECCA CONNER, Ziying Lei, Jack Smith, *University of Tennessee*

3UG.5 4:00 **Small Things Forming and Growing in the Air of Hot Dry Places.** KRISTEN CRAMER, James Smith, *University of California, Irvine*

3UG.6 4:05 **Using a Machine That Smells Tiny Hard-to-See Things in Air Where the Sea Meets the Land.** TERESA PALACIOS DIAZ, Anna Kapp, Kristen Cramer, Adam Thomas, James Smith, *University of California, Irvine*

3UG.7 4:15 **What Comes Out When Sky Cars Wake Up Their Fire Boxes and What It Means for the People Who Work Next to Them.** ONYINYE A. EZEIFEKA, Yevgen Nazarenko, *University of Cincinnati*

3UG.8 4:20 **Big Problems from Small Things: Understanding That Long-Lasting Stuff Doesn't Really Last.** ADAM DEITSCH, D. Orsini, Jie Zhang, Archana Tripathy, Sara Lance, *University at Albany*

3UG.9 4:30 **How to Get Tiny Bits and Stuff High in the Sky Into Flying Cars Without Losing Them to Crazy Air Problem.** NAGARAJAN RADHAKRISHNAN, Charles Brock, Suresh Dhaniyala, *Clarkson University*

3UG.10 4:35 **Understanding How the Brown Drops in Forest Fires Catch the Sun Light.** KATELYN PACAUD, Pedro De Allende, Malsha Amugoda, James F. Davies, *University of California, Riverside*

Tuesday 5:00 PM - 6:00 PM
Working Group Meetings 1: Atmospheric Aerosols (Ballroom AB)

Tuesday 5:00 PM - 6:00 PM
Working Group Meetings 1: Aerosol Physics (Ballroom C)

Tuesday 5:00 PM - 6:00 PM
Working Group Meetings 1: Indoor Aerosols and Aerosol Exposure (Ballroom DE)

Tuesday 5:00 PM - 6:00 PM
Working Group Meetings 1: Bioaerosols (Ballroom F)

Tuesday 5:00 PM - 6:00 PM
Working Group Meetings 1: History of Aerosol Science (Ballroom G)

Tuesday 5:30 PM - 6:30 PM
Pre-reception Sponsored Event: Advancement in Carbonaceous Aerosol Measurements by Aerosol Magee (Exhibit Hall AB)

Tuesday 6:30 PM - 8:30 PM
Welcome Reception (Exhibit Hall AB)

Tuesday 6:30 PM - 8:30 PM
Session 4: Meet the Job Seekers and Student Chapter Posters (Exhibit Hall AB)

4JS MEET THE JOB SEEKERS: POSTERS

EXHIBIT HALL AB

4JS.1 **Ph.D. Candidate Seeking Opportunities in the Greater Los Angeles Area.** LUCAS ROJAS-MENDOZA, *University of California Berkeley*

4JS.2 **Yanyu Zhang, Ph.D. Candidate, Seeking Postdoctoral Opportunities in Atmospheric Chemistry.** YANYU ZHANG, *University of California, Riverside*

4JS.3 **Angel Gibbons Auburn University, Department of Chemistry and Biochemistry, Graduate Student.** ANGEL GIBBONS, *Auburn University*

4JS.4 **Ph.D. Candidate Seeking Postdoctoral or Industry Opportunities in Air Quality and Atmospheric Modeling.** DEEPSHIKHA OLA, *The Ohio State University*

4JS.5 **Roshan Kumar Singh, Joint PhD Candidate at Civil Engineering at Indian Institute of Technology (IIT) Kanpur and Chemistry, University of Alberta, Seeking a Postdoctoral Position.** ROSHAN KUMAR SINGH, *University of Alberta, Canada and IIT Kanpur, India*

4JS.6 **Kyah Gracia, Ph.D. Candidate Seeking Government or Industry Roles in Air Quality and Environmental Engineering.** KYAH GRACIA, *University of California, Riverside*

4JS.7 **Zhuoying Lin, PhD Student at UCLA, Environmental/Sustainability Consulting.** ZHUOYING LIN, *University of California, Los Angeles*

4JS.8 **Colleen Miller, Ph.D. Candidate Seeking Government, Industry, or Nonprofit Opportunities in Air Quality, Clean Energy, or Sustainability.** COLLEEN MILLER, *University of California, Irvine*

4JS.9 **Adam Deitsch, Atmospheric Science PhD Candidate, Seeking a Research Scientist Position in Academia, Government or Industry.** ADAM DEITSCH, *University at Albany*

4JS.10 **Kevin K. Crown, Ph.D. Seeking Research Scientist, Principal Investigator, or Technical Leadership Opportunities.** KEVIN K. CROWN, *National Strategic Research Institute*

4JS.11 **Muhammad Isa Abdurrahman, PhD Candidate Seeking Research Scientist/Postdoctoral Positions in Aerosol Science.** MUHAMMAD ABDURRAHMAN, *University of Georgia*

4JS.12 **Nagendra Raparthi, Postdoctoral Fellow Seeking Faculty/Research Scientist Positions in Aerosol Science.** NAGENDRA RAPARTHI, *University of California, Davis*

4JS.13 **Yanhao Miao, Ph.D. Student in Atmospheric Chemistry, Seeking a Postdoctoral Position in Bioaerosol Measurement, Indoor Air Quality, and Artificial Intelligence for Aerosol Science.** YANHAO MIAO, *City University of Hong Kong*

4JS.14 **Bradley H. Isenor, PhD Candidate, Seeking Postdoctoral Positions.** BRADLEY H. ISENOR, *University of Toronto*

4JS.15 **Amir Babaei Gharehbagh, Ph.D. Candidate in Environmental Engineering and Research Scientist.** AMIR BABAEI-GHAREHBAGH, *University of Maryland, Baltimore County*

4JS.16 **Satoko Kayaba, JSPS Postdoctoral Fellow, Seeking a Postdoctoral Position in Aerosol Oxidative Potential and Air Quality Modeling.** SATOKO KAYABA, *National Institute for Environmental Studies*

4JS.17 **Shu-Wen You, Ph.D. Candidate, Washington University in St. Louis, Seeking Postdoctoral Positions in Aerosol Chemistry and Physics.** SHU-WEN YOU, *Washington University in St. Louis*

4JS.18 **Sijia (Lucia) Liu, Ph.D. Candidate in Chemistry and Aspiring Atmospheric Aerosol Research Scientist/ Postdoctoral Researcher.** SIJIA LIU, *University of California, Irvine*

4JS.19 **Jackson Ryan, Atmospheric Chemistry PhD Candidate, Seeking Postdoctoral and Other Opportunities in the Southern California Area.** JACKSON RYAN, *University of California, Irvine*

4JS.20 **Michael Lum - 6th-Year Ph.D. Candidate - Seeking Research Related Positions.** MICHAEL LUM, *University of California, Riverside*

4JS.21 **Regina Luu, PhD Candidate in Atmospheric Chemistry, Seeking: Industry or Government positions in Southern California.** REGINA LUU, *University of California, Irvine*

4JS.22 **Prabhav Upadhyay — Ph.D. Candidate in Environmental Science & Engineering (Washington University in St. Louis) | Aerosol Optics, Instrumentation & Light-Scattering Modeling.** PRABHAV UPADHYAY, *Washington University in St. Louis*

4JS.24 **Kieudiem (Kate) Nguyen, PhD Candidate in Atmospheric Chemistry, Seeking Government or Industry Positions in Air Quality Modeling and Environmental Data Science.** KIEUDIEM NGUYEN, *University of California, Irvine*

4JS.25 **Paa Sey, Ph.D. Candidate in Mechanical Engineering Seeking Industry, Research Scientist, and Postdoctoral Roles in Air Quality and Aerosol Science.** PAA SEY, *Carnegie Mellon University*

4SC STUDENT CHAPTERS: POSTERS

EXHIBIT HALL AB

4SC.1 **University of California Riverside Student Chapter.** ERIN BOWEY, Malsha Amugoda, Stephanie Salas, Sean Murphy, James F. Davies, *University of California, Riverside*

4SC.2 **Sensors Solution Hackathon (SSH); Clarkson University AAAR Student Chapter.** NAGARAJAN RADHAKRISHNAN, Suresh Dhaniyala, *Clarkson University*

4SC.3 **University of California, Irvine Student Chapter.** JACKSON RYAN, Dhivya Manickam, Connor Seto, B. Sage Lauper-Cook, Berenice Rojas, Colleen Miller, *University of California, Irvine*

Tuesday 7:00 PM - 8:00 PM
Mentor/Mentee Meet-Up (Exhibit Hall AB)

Tuesday 7:30 PM - 8:30 PM
LGBTQIA+ Meet-Up (Ballroom AB)

Wednesday

Wednesday 6:30 AM - 7:30 AM
AAAR Fun Run/Walk (Valet at Hotel Dana)

Wednesday 7:00 AM - 8:00 AM
Committee Meetings 3 - Education (Room 207)

Wednesday 7:00 AM - 8:00 AM
Committee Meetings 3 - Finance (Room 208)

Wednesday 7:00 AM - 8:00 AM
Committee Meetings 3 - Newsletter (Room 209/210)

Wednesday 8:00 AM - 9:15 AM
Plenary 2 (Ballroom DE)

8:00 **Lundgren-Marple Lecture: The Aerosol Aqueous Phase and the Curious Behavior of Fine Particle Acidity** Rodney Weber, *Georgia Institute of Technology*

Moderator Nga Lee (Sally) Ng, *California Institute of Technology*

9:00 **Whitby Award Presentation and Announcement of Mercer Award** Gabriel Isaacman-VanWertz, *Virginia Tech*

AS&T Outstanding Publication and Outstanding Reviewer Awards Presentation Jonathan P. Reid, *University of Bristol*

Up-Goer Give Challenge Award Presentation Samuel Kaufmann, *Independent*

Wednesday 9:00 AM - 4:00 PM
Exhibits Open (Exhibit Hall AB)

Wednesday 9:15 AM - 9:45 AM
Coffee Break (Exhibit Hall AB)

Wednesday 9:45 AM - 11:30 AM
Session 5: Platform

5AP AEORSOL PHYSICS 4: FROM FUNDAMENTALS TO ATMOSPHERIC AEROSOLS
BALLROOM AB – Fan Mei and Ren Garity, chairs

5AP.1 9:45 **Inelastic Collisions Between Gas Molecules as Well as with Tiny Nanoparticles (TNP) and Their Impact on TNP Diffusivity in Comparison to Experimental Data.** Dimitrios Tsalikis, SOTIRIS PRATSINIS, *Aristotle University of Thessaloniki, Greece*

5AP.2 10:00 **Using Low- and Medium-Cost Optical Particle Counters to Evaluate Turbulence-Induced Aerosol Deposition.** REN GARITY, James Henry, Andrew Metcalf, John Saylor, Moein Mousavi, Prasad Rangaraju, Nigel Kaye, *Clemson University*

5AP.3 10:15 **Resolved CFD Modelling of Single-Particle Aerosol Resuspension Under Near-Wall Turbulence.** NICOLAS DUTHOU, Alberto Gambaruto, *University of Bristol*

5AP.4 10:30 **Implementation of Kinetic Partitioning of Secondary Organic Aerosols in GEOS-Chem.** REGINA LUU, Meredith Schervish, Samuel O'Donnell, Jeffrey R. Pierce, Manabu Shiraiwa, *University of California, Irvine*

5AP.5 10:45 **Beyond the Surface: Unlocking Aerosol Vertical Structure Through Uncrewed Aerial and Tethered Balloon Platforms.** FAN MEI, Jian Wang, Israel Silber, Qi Zhang, Nurun Nahar Lata, Gregory W. Vandergrift, Jing Li, Christopher Niedek, Bo Chen, Sarah D. Brooks, Michael Jensen, Damao Zhang, Gourihar Kulkarni, Darielle Dexheimer, Beat Schmid, Zezhen Cheng, Jason Tomlinson, Swarup China, Min Deng, *Pacific Northwest National Laboratory*

5AP.6 11:00 **Improved SEM Imaging Analysis for Characterizing Microenvironmental Condition for Bioaerosol Particles.** DEEPAK SAPKOTA, Yuhui Guo, Ajay Sajan, Imtiaz Taimoor, Hui Ouyang, *The University of Texas at Dallas*

5AP.7 11:15 **Increasing Sea Surface Temperature Suppresses Primary Marine Aerosol Production.** JUSTIN HAMLIN, Raymond Leibensperger III, Jena Herbst, Charbel Harb, Ke'La Kimble, Meinrat O. Andreae, Christopher Lee, Greg Sandstrom, M. Dale Stokes, Grant B. Deane, Kimberly Prather, *University of California San Diego*

5BA BIOAEROSOLS 4: ENVIRONMENTAL AEROBIOME DYNAMICS
BALLROOM F – Marina Nieto-Caballero and Tamanna Subba, chairs

5BA.1 9:45 **Longitudinal Aerosol Sampling Reveals Important Drivers of Airborne Transmission of Coccidioides Posadasii and Dispersion of Fungal Communities in Arizona.** Daniel Kollath, Amelia Stout, Marieke L. Ramsey, Bridget M. Barker, Pierre Herckes, MATTHEW FRASER, *Arizona State University*

5BA.2 10:00 **Bioaerosol Dynamics at the 2024 NASCAR Race in Fort Worth, Texas.** KATHERINE ARAYA, Vivian Tat, Sarah Alnemrat, George Santarpia, Riley Watson, Kostiantyn Botnar, Sean Kinahan, Shanna A. Ratnesar-Shumate, David Kimmel, Hema Narra, Christine Tomlinson, George Golovko, Kamil Khanipov, *The University of Texas Medical Branch*

5BA.3 10:15 **Selected Research Highlights from the Biology Integration Institute: Regional OneHealth Aerobiome Discovery Network (BROADN).** SONIA KREIDENWEIS, Marina Nieto-Caballero, Kevin Barry, Emily Kraus, Mark Hernandez, Jane Stewart, Carolyn Cornell, Sam Golon, Brad Borlee, *Colorado State University*

5BA.4 10:30 **Physicochemical Characterization of Ice Nucleating Particles in Birch Pollen.** CHAMARI MAMPAGE, Miriam Freedman, *The Pennsylvania State University*

5BA.5 10:45 **What Bacteria Say When They Fly: Gene Expression Profiling of Airborne Mycobacterium parafortuitum.** EMILY KRAUS, Samuel Bryan, Mark Hernandez, *University of Colorado Boulder*

5BA.6 11:00 **Interannual Variability of Pollen Rupture and Convective Transport over the Bankhead National Forest.** TAMANNA SUBBA, Allison Steiner, Maria A. Zawadowicz, Ashish Singh, Nurun Nahar Lata, Zezhen Cheng, Gregory W. Vandergrift, Ashfiqur Rahman, Darielle Dexheimer, Casey Longbottom, Gabrielle Whitson, Carlos Ruiz, Shawn Serbin, Scott Giangrande, Swarup China, Chongai Kuang, *Brookhaven National Laboratory*

5BA.7 11:15 **From Sewage to Sea Spray: Multi-Omic Characterization of the Coastal Aerobiome.** MAILE HEYER, Alice Levesque, Ariel Rabines, Greg Sandstrom, Lisa Zeigler, Kimberly Prather, *University of California San Diego*

5CC AEROSOLS, CLOUDS, AND CLIMATE 4: AEROSOL CHEMICAL COMPOSITION
BALLROOM H – Haofei Zhang and Yuan Liu, chairs

5CC.1 9:45 **Laboratory Characterization of Aerosol Activation and Mixing State Evolution During Cloud Processing.** RYAN FARLEY, Kyle Gorkowski, Katherine Benedict, James E. Lee, Manvendra Dubey, Allison Aiken, *Los Alamos National Laboratory*

5CC.2 10:00 **Hygroscopicity of Organic Matter: The Role of Functional Groups.** NAGENDRA RAPARTHI, Ann M. Dillner, Anthony S. Wexler, *University of California, Davis*

5CC.3 10:15 **Impact of Long-Range and Local Transport on the Hygroscopic Growth of Atmospheric Aerosol Particles at Skidaway Island, Georgia.** MARA SHIELDS, Ariana Deegan, Abigail Sanders, Ellie Smerznak, Kathryn Zimmerman, Amanda Frossard, *University of Georgia*

5CC.4 10:30 **From κ to χ: Evaluating and Applying Hygroscopicity-Based Aerosol Mixing State Estimates Across Diverse Environments.** Yicen Liu, Shengqian Zhou, Jian Wang, NICOLE RIEMER, *University of Illinois Urbana-Champaign*

5CC.5 10:45 **Joint Contribution of Spatiotemporal Influences and Chemical Composition on the Hygroscopicity of Aerosol Particles in the Southern Great Plains.** KYLE P. MCCARY, Rylen Pereira, Alan R. Gonzalez, Xiangxinyue Meng, Ajith Thenoor Chandran, Heewon Yim, Maria A. Zawadowicz, John Shilling, Qi Ying, Yue Zhang, *Texas A&M University*

5CC.6 11:00 **When Is a Hoppel Minimum Really a Hoppel Minimum?** LYNN M. RUSSELL, Abigail Williams, Jeramy Dedrick, Georges Saliba, Timothy Bates, Patricia Quinn, *Scripps/University of California San Diego*

5CC.7 11:15 **Surfactant Properties and Particle Hygroscopic Growth Vary with Air Mass Source Region and Season at Skidaway Island, Georgia.** AMANDA FROSSARD, Mara Shields, Ariana Deegan, Anastasia Watson, Abigail Sanders, Ellie Smerznak, Kathryn Zimmerman, Tret Burdette, *University of Georgia*

5ES EXHIBITOR AND INSTRUMENT APPLICATION SHOWCASE 1
EXHIBIT HALL AB – Amy Sullivan and Julie Stone, chairs

5ES.1 9:45 **Particle Size, Concentration & Mass Calibrator.** FRED BRECHTEL, Andy Corless, Xerxes Lopez-Yglesias, Nicholas Veizades, Gregory Veizades, *Brechtel Mfg. Inc*

5ES.2 10:30 **Sampling Indoor Particulate Matter and Volatile Organic Compound Pollution Using a Mail-Away Approach with Access Sensor Technologies' Home Health Box.** JESSICA TRYNER, Xiaoying Li, Olivia Cecil, Mollie Phillips, John Volckens, Ellison Carter, *Access Sensor Technologies*

5ES.3 11:00 **Understanding Xact 625I MDL's, Lod's, and Total Reported Concentration Uncertainties for Comparison Studies.** JAMIE BERG-CABASAAN, *Sailbri Cooper Inc*

5IM INSTRUMENTATION AND METHODS 3: CHEMISTRY
BALLROOM C – Akua A. Asa-Awuku and Maya Abou-Ghanem, chairs

5IM.1 9:45 **Real-Time Analysis of Trace Metals in Air by Microwave Induced Plasma Time-of-Flight Mass Spectrometry (mipTOF).** MAYA ABOU-GHANEM, Martin Tanner, Alexander Gundlach-Graham, Jay Slowik, Ed Fortner, John Jayne, *TOFWERK*

5IM.2 10:00 **Inline Gas Chromatography for Rapid Separation of Gases in Practice and Predictions.** TALHA JUBAIR, Chien Nguyen, Adam Lahouar, James Hurley, Anum Khan, Namrata Shanmukh Panji, Jesse Kroll, John Michalek, Hoda Eldardiry, Gabriel Isaacman-VanWertz, *Virginia Tech*

5IM.3 10:15 **Chemical Ionization Mass Spectrometry Utilizing Benzene Cations for Measurements of Volatile Organic Compounds and Nitric Oxide.** UMA PUTTU, Jamie R. Kamp, Xiaoyu Chen, Jhao-Hong Chen, Bingru Wang, Jing Li, Miquel A. Gonzalez-Meler, Jian Wang, Lu Xu, *Washington University in St. Louis*

5IM.4 10:30 **A New Approach to Reduced Nitrogen Identification and Quantification from Aerosol Mass Spectrometry Measurements.** GUY SYMONDS, Pedro Campuzano-Jost, Dongwook Kim, Douglas A. Day, Qi Zhang, Xinlei Ge, Benjamin A. Nault, Hongyu Guo, Demetrios Pagonis, Jose-Luis Jimenez, *University of Colorado Boulder*

5IM.5 10:45 **PySP2: An Open Source Framework for Single Particle Soot Photometer Data Processing.** ROBERT JACKSON, Jessica Gasparik, John Backman, Arthur J. Sedlacek, Jesse Steiner, Kristie Stower, Barabara Bertozzi, Andrew Metcalf, Eddie Schuman, Adam Theisen, Zachary Sherman, *Argonne National Laboratory*

5IM.6 11:00 **Advancing Field-Deployable Single Particle Mass Spectrometry for Airborne Atomic Detection in Forensic Applications.** ALLA ZELENYUK, *Pacific Northwest National Laboratory*

5IM.7 11:15 **Application of Broadband Light Scattering to Characterize the Absorption Spectra of Brown Carbon Chromophores Under Supersaturated Conditions.** MALSHA AMUGODA, Pedro De Allende, Katelyn Pacaud, Bilal Shokoor, Thomas Preston, James F. Davies, *University of California, Riverside*

5UA URBAN AEROSOLS 4: FIELD OBSERVATIONS
BALLROOM G – Xiang Li and Adam De Groodt, chairs

5UA.1 9:45 **Mapping a Decade of Air Pollution Research in Latin America: A Bibliometric Analysis of Trends, Gaps, and Policy Alignment.** Sebastian Larrahondo, JUAN FELIPE FRANCO, *Hill Consulting, Bogota D.C., Colombia*. INVITED.

5UA.2 10:00 **Evolution of Black Carbon Mixing State in the Summertime NY Urban Plume.** ADAM DE GROODT, Delphine K. Farmer, Lauren A. Garofalo, John Mak, *Colorado State University*

5UA.3 10:15 **Source Apportionment and Particle Diversity Quantification from Physiochemical Characterization of Individual Particles Collected in the New York City Metropolitan Area.** ABBYGAIL AYALA, Yao Xiao, Emily Costa, Kayleigh Reilly, Xu He, Mitchell Rogers, Drew Gentner, Rachel O'Brien, Andrew P. Ault, *University of Michigan*

5UA.4 10:30 **Innovative Methods for Size-Resolved Organic Aerosol Composition Using Offline Aerosol Mass Spectrometry: NYC-METS 2023 Field Campaign.** XU HE, Yao Xiao, Ruizhe Liu, Evan Dalton, Mitchell Rogers, Corin Tyler, Emily Costa, Nga Lee Ng, Drew Gentner, Andrew P. Ault, Rachel O'Brien, *University of Michigan*

5UA.5 10:45 **Status Update and Results from the First Three Years of MAIA's Ground-Based Particulate Matter Monitoring Network.** SINA HASHEMINASSAB, David Diner, Jeff Blair, Sabrina Chow, Ann M. Dillner, Yang Liu, Christian L'Orange, Randall Martin, Christopher Oxford, Jeremy A. Sarnat, MAIA Team, *NASA Jet Propulsion Laboratory*

5UA.6 11:00 **Temporal Trends in Particulate Air Pollution and Respiratory-Cardiovascular Health Outcomes in Karaganda, Central Kazakhstan.** GULDEN ORMANOVA, Philip K. Hopke, Alexey Alexeyev, Alexandra Vinnikova, Sholpan Orazbaeva, Kyran Kasym, *Inst. of New Materials and Energy Tech. PI, Nazarbayev Univ.*

5UA.7 11:15 **Long-Term Trends in Ammonium Nitrate $PM_{2.5}$ Composition and Formation Regime Shifts in the Los Angeles Basin.** XIANG LI, Huafang Zhang, *South Coast Air Quality Management District*

5WF THE BREATH OF FIRE: AEROSOL, HEALTH, AND PROTECTION IN THE WILDLAND-URBAN INTERFACE (WUI) 1: EMISSION FACTORS AND LABORATORY STUDIES
BALLROOM DE – Shantanu Jathar and Ryan Falkenstein-Smith, chairs

5WF.1 9:45 **The Chemical Complexity of Air Pollutant Emissions from Modern Structural Fires.** SHANTANU JATHAR, Kevin Ridgway, Anna Helfrich, Christian L'Orange, Srinidhi Lokesh, Thomas Borch, *Colorado State University*

5WF.2 10:00 **Particulate and Gas Phase Chlorine Emission Partition of Mixed Fuel Combustion of Polyvinyl Chloride and Medium Density Fiberboard.** Thomas Cleary, Aika Davis, Audrey Tombaugh, RYAN FALKENSTEIN-SMITH, *National Institute of Standards and Technology*

5WF.3 10:15 **Wildland-Urban Interface Fire Emissions from Structural Materials Include Organic-Rich and Polymer-Derived Microplastic Particles.** JULIUS ESE, Theodore Tsai, Steven Sharpe, Temitope Olayemi, Seth Koloski, Ryan Moffet, Matthew Fraund, Alexander Laskin, *Purdue University*

5WF.4 10:30 **Characterization of Plastic-Burning Particulate Matter Generated Through Pyrolysis and Flaming Combustion.** B. SAGE LAUPER-COOK, Lena Gerritz, Aleksei Noskov, Dmitry Fishman, Sergey Nizkorodov, Manabu Shiraiwa, *University of California, Irvine*

5WF.5 10:45 **Emissions of Gaseous and Particulate Speciated Organics from Combustion of Furnished Structures.** MICHAEL MILAZZO, Nathan Kreisberg, Robert Weber, Bryce Bathras, Wuquan Cui, Lindsay Yee, Michael Gollner, Allen Goldstein, *University of California, Berkeley*

5WF.6 11:00 **Measurements of Smoke Emissions from Interior and Exterior Structural Fires in the Wildland Urban Interface.** THOMAS CARROLL, Muhammad Abdurrahman, Michael Caraway, Nicholas Kusumo, Kruthika Kumar, Anita Anosike, Mac A. Callaham, Joseph O'Brien, Ed Fortner, Webster Marshall, Kathryn Zimmerman, Rawad Saleh, *University of Georgia*

5WF.7 11:15 **Characterization of Metals in Particulate Matter Emissions from Structure Fire Fuel Packages.** AIKA DAVIS, Thomas Cleary, Ryan Falkenstein-Smith, Michael Link, Audrey Tombaugh, *National Institute of Standards and Technology*

Wednesday 11:30 AM - 1:00 PM
AS&T Editorial Board Luncheon (Room 211)

Wednesday 11:30 AM - 1:00 PM

Early Career Event (Exhibit Hall AB)

Wednesday 12:00 PM - 1:00 PM
Committee Meetings 4 - Development (Room 207)

Wednesday 12:00 PM - 1:00 PM
Committee Meetings 4 - Membership (Room 208)

Wednesday 12:00 PM - 1:00 PM
Committee Meetings 4 - Bylaws (Room 209/210)

Wednesday 1:00 PM - 3:00 PM
Session 6: Platform

6AC AEROSOL CHEMISTRY 2: FORMATION AND CHEMICAL EVOLUTION OF BROWN CARBON AND BIOMASS BURNING-DERIVED AEROSOLS
BALLROOM AB – Elijah Schnitzler and Chu-Wen (Wayne) Cheng, chairs

6AC.1 1:00 **An Aerosolomics Approach to Characterizing Biomass Burning Emissions – Application to Indian Crop Residue Burning.** CHU-WEN CHENG, Roshan Kumar Singh, Ran Zhao, *University of Alberta*

6AC.2 1:15 **Temperature-Driven Regimes of Biomass Burning Aerosol Formation.** ZEZHEN CHENG, Gregory W. Vandergrift, Valentina Sola, Sijia Liu, Ryan Poland, Michael Caraway, Schuyler Lockwood, Tania Gautam, Amna Ijaz, Yuzhi Chen, John Shilling, Nurun Nahar Lata, Sining Niu, Jing Li, Matthew A. Marcus, Payton Beeler, Laura Fierce, Gourihar Kulkarni, Alexander Laskin, Sergey Nizkorodov, Geoffrey Smith, Rawad Saleh, ManishKumar Shrivastava, Alla Zelenyuk, Swarup China, *Pacific Northwest National Laboratory*

6AC.3 1:30 **Aerosol Uptake of NO_3 Dominates Nighttime NOx Loss in Wildfire Smoke.** ZHANCONG LIANG, Jonathan Abbatt, *University of Toronto*

6AC.4 1:45 **Nighttime Formation and Photochemical Evolution of Nitroaromatics and Organonitrates from Biomass-Burning Derived Phenolic Compounds.** David Pando Gonzalez, Madeleine Sze In Ng, Siqi Wang, Rodney J. Weber, NGA LEE NG, *California Institute of Technology*

6AC.5 2:00 **Airborne Microplastics Are an Unexpected Source of Atmospheric Brown Carbon.** YANGYANG LIU, Peter Vikesland, *Virginia Tech*

6AC.6 2:15 **Photochemical Evolution Upon Irradiation of Primary Brown Carbon with Varying Sources and Concentrations.** SITHUMI LIYANAGE, Colton Calvert, Holly Anthony, Gwendolyn Copland, Elijah Schnitzler, *Oklahoma State University*

6AC.7 2:30 **Salt-Dependent Singlet Oxygen Oxidation of Biomass-Burning Furans in Aerosol Liquid Water.** ANTAI ZHANG, Christopher Niedek, Wenqing Jiang, Mallory Liebes, Kyle Moore, Cort Anastasio, Qi Zhang, *University of California, Davis*

6AC.8 2:45 **Superoxide Burst Upon Photochemical Aging of Secondary Organic Aerosols Derived from Biomass Burning Precursors.** Lena Gerritz, Meredith Schervish, Pascale Lakey, Sergey Nizkorodov, MANABU SHIRAIWA, *University of California, Irvine*

6CO COMBUSTION 1
BALLROOM DE – Matt Brown and Yevgen Nazarenko, chairs

6CO.1 **Continuing Role of Particulate Sulfate Mass Emissions Across Fuel-Type and Lean Combustor Engines.**
1:00 BENJAMIN A. NAULT, Andrew Freedman, Ed Fortner, Anandi Williams, Bruce Anderson, Steven Baughcum, Matthew Brown, Josh DiGangi, Francisco Guzman, Jennifer Klettlinger, Michael Shook, Gregory Smallwood, Elizabeth Wiggins, Edward Winstead, Luke Ziemba, Richard Miake-Lye, Richard Moore, Francesca Gallo, *Aerodyne Research, Inc.*

6CO.2 **Particle Emission Property from Small Gas Turbine with SAF.** HIROYUKI YAMADA, Toshiki Kaneko, *Tokyo Denki*
1:15 *University Graduate School*

6CO.3 **Aircraft Engine Emissions: The Changing Aerosol Composition with the Transition from Fossil Jet Fuels to**
1:30 **Sustainable Aviation Fuels (SAFs).** ONYINYE A. EZEIFEKA, Yevgen Nazarenko, *University of Cincinnati*

6CO.4 **Getting the Lead Out: A Case Study of a General Aviation Airport in San José, California.** Somalia Perkins,
1:45 Frederick McVeigh Lopez, Lupita D. Montoya, Eric Peterson, SHERYL EHRMAN, *San José State University*

6CO.5 **PM2.5 Chemical Evolution During an Industrial Pool Chemical Fire: The 2024 Biolab Event in Atlanta.** SOHYEON
2:00 JEON, Ruizhe Liu, Can Barut, Nga Lee Ng, *Georgia Institute of Technology*

6CO.6 **Characterization of Vehicle Originated Condensable Particulate Matter.** GIWON KANG, Jeongbeen Kim,
2:15 Soodong Lee, Changhyuk Kim, *Pusan National University*

6CO.7 **Quantitative Soot Yield (QSY) of Fuel Surrogate Components in Ethylene Counterflow Diffusion Flames.**
2:30 CHRISTIAN P. BJORK, Alessandro Gomez, Francesco Carbone, *Yale University*

6CO.8 **Characterization of First-Generation OH Oxidation Products of Phenolic VOCs in the Gas Phase.** WILLIAM
2:45 RAGEN, Zachary Deininger, Haofei Zhang, *University of California, Riverside*

6ES EXHIBITOR AND INSTRUMENT APPLICATION SHOWCASE 2
EXHIBIT HALL AB – Fred Brechtel and Andy Grieshop, chairs

6ES.1 **Producing "Gold Standard" Particles with the Silver Particle Generator.** MAXIMILIAN DOLLNER, Paulus Bauer,
1:00 Vinicius Berger, Kelvin Risby, Hans-Joachim Schulz, Jacob Swanson, Adam Boies, *Catalytic Instruments GmbH & Co.KG*

6ES.2 **EMILIE: A New Paradigm for Chemical Speciation of Sub-Micrometer Particles.** NIKLAS LUHMANN, *Invisible-Light*
1:45 *Labs GmbH, Austria*

6ES.3 **Rayleigh Breakup and Ultra-Sonic Mesh Atomizing Spray Devices: Investigations Into Their Toxicology and**
2:30 **Aerobiology Applications.** Rudolph Jaeger, AMIT GUPTA, *CH Technologies (USA) Inc.*

6IA INDOOR AEROSOLS 2: COOKING-RELATED POLLUTION AND RESIDENTIAL ELECTRIFICATION
BALLROOM H – Jessica Tryner and Yi Fang, chairs

6IA.1 **Significant Cross-Contamination of Cooking Emissions in Multi-Story Buildings via Single-Unit and Building-**
1:00 **Wide Assessment.** Xiaoqiao Jiao, Wangchao Zhao, Wenting Yuan, Chao Pan, Shu Tao, CHEN WANG, *Southern University of Science and Technology*

6IA.2 **PM2.5 from Cooking with Gas and Electric-Induction Stoves in California Homes.** YI FANG, Haoran Zhao,
1:15 Anabelle Garza, Arlette Garcia-Ramirez, Briseida Vasquez, Debra Garcia, Jesus Rivera, Tim Tyner, Stephanie Holm, John Balmes, Brett Singer, *University of California, Los Angeles*

6IA.3 1:30 **Potential Bias in Optical PM Sensor Response to Emissions from Cooking with Different Fuels.** BRETT SINGER, Haoran Zhao, William Delp, Yi Fang, *Lawrence Berkeley National Laboratory*

6IA.4 1:45 **High Ultrafine Particle Emissions and Inhalation Exposures from Dry Shampoo Products.** JORDAN CROSS, Jianghui Liu, Nusrat Jung, *Purdue University*

6IA.5 2:00 **Participant-Centered Air Quality Communication for Residential Electrification Programs: Lessons from a Gas-to-Induction Stove Pilot.** KATIE KEARNS, Dan Bertoldi, Helen Mejia, Jin Zhu, Michael Johnson, Sydney Jones, Mafe Aragon, Dana Charron, Madelin Hetrich, Laura Forni, Romina Diaz Gomez, Nicholas Lam, Tim Tyner, Peter Moschovis, Jessica Tryner, Rachit Sharma, Ajay Pillarisetti, *Berkeley Air Monitoring Group*

6IA.6 2:15 **Oxidative Potential of Particulate Matter Emitted During Controlled Cooking Activities.** SAMAN HARATIAN, P. S. Ganesh Subramanian, Vishal Verma, Mohammad Heidarinejad, Brent Stephens, *Illinois Institute of Technology*

6IA.7 2:30 **Particle Emissions from Electric Cooking: Characterizing UFP and PM2.5 from Induction Stoves and Air Fryers.** Joshua Harper, Lily Mueller, Robert T. Nishida, TIANYUAN LI, *University of Waterloo*

6IA.8 2:45 **The Impact of Behavioral and Environmental Factors on Surface Dust Mass Loadings and Particle Size Distributions in Residential Dwellings.** BRIAN MAGNUSON, Minh-An Luu, Satya Patra, Brandon E. Boor, *Purdue University*

6IM INSTRUMENTATION AND METHODS 4: HARDWARE
BALLROOM C – Fan Mei and Ryan Sullivan, chairs

6IM.1 1:00 **A Bipolar Chemical Ionization Mass Spectrometry for Online Detection of Atmospheric Organic Molecules.** JINGKUN JIANG, Zitao Yan, Zhaojin An, Dandan Li, Yuyang Li, *Tsinghua University, China*

6IM.2 1:15 **Demonstration of a Novel Ultrafine Particle Monitor Based on Pulsed Bipolar Charging.** JOSHUA HARPER, Tyler J. Johnson, Colin Dwyer, Conor Ruzycki, Robert T. Nishida, *University of Waterloo*

6IM.3 1:30 **Droplet Microfluidics-Based Capture and Transfer of Single Aerosol Particle-Droplets for On-Chip Single-Particle Analysis.** WENDY FLORES-BRITO, Ryan Sullivan, *Carnegie Mellon University*

6IM.4 1:45 **A Condensation Diffusion Charger for Particle Number Measurement from 3 nm up to 10^7 cm^{-3}.** ALEXANDER BERGMANN, Helmut Krasa, Victoria Fruhmann, *Graz University of Technology*

6IM.5 2:00 **Multi-Instrument Isokinetic Aerosol Sampling Across a Continuous Velocity Range.** Benjamin Kokaly, Meghan Megowan, XIAOSU DING, Caleb Rismiller, Parichehr Salimifard, *Oregon State University*

6IM.6 2:15 **Establishing Coarse PM Calibration Practices Using Low-Cost Optical Particle Counters.** MIKYLA HARJAMAKI, Michael Hannigan, *University of Colorado Boulder*

6IM.7 2:30 **Evaluation of the Met One Instruments OPX 1025 Optical Particulate Matter Mass Monitor.** STEPHEN TONER, Dylan Deems, *Met One Instruments, Inc.*

6IM.8 2:45 **Extracting Maximum Information from Single Particle Soot Photometers (SP2).** DARREL BAUMGARDNER, *Droplet Measurement Technologies, Boulder, Colorado*

6RM REMOTE AND REGIONAL ATMOSPHERIC AEROSOL 3: NEW PARTICLE FORMATION AND ULTRAFINE AEROSOL COMPOSITION IN REMOTE ENVIRONMENTS
BALLROOM G – Joy Kiguru and Teresa Palacios Diaz, chairs

6RM.1 1:00 **Atmospheric Ammonia and Amines Observed in Fall 2025 During a Coastal Campaign at Boothbay, Maine.** Christine Troller, Joy Kiguru, Gabriella Iacono, Steve Archer, COTY JEN, *Carnegie Mellon University*

6RM.2 1:15 **Acid-Base Nucleation and Tide-Driven Biogenic Precursors at a Gulf of Maine Coastal Site.** JOY KIGURU, Christine Troller, Ziheng Zeng, Malena Rybacki, Dallan Schoenberger, Gabriella Iacono, Steve Archer, Coty Jen, *Carnegie Mellon University*

6RM.3 1:30 **Atmospheric Aerosol Formation and Characteristics in the Alaskan Boreal Forest: Observations from the DENALI Campaign.** STEVEN JOB THOMAS, Cecilia Righi, Myriam Agrò, Wei Huang, Ayomide Akande, Zachary Payne, Aki Nissinen, Bingying Zhao, Iida Pullinen, Angela Buchholz, Arttu Ylisirniö, Timothy Onasch, Francesca Salteri, Yvette Nadine Gramlich, Yiwei Gong, James Campbell, Nina Sarnela, Olga Garmasch, Siegfried Schobesberger, Nadine Borduas-Dedekind, Claudia Mohr, Federico Bianchi, Jingqiu Mao, et al., *University of Helsinki*

6RM.4 1:45 **Seasonal Trends in Ultrafine Aerosol Composition and New Particle Formation in the Southern California Desert.** CONNOR SETO, Kristen Cramer, Megan Harmon, Jackson Ryan, Berenice Rojas, Sanjeevi Nagalingam, Alex Guenther, Celia Faiola, Madeline Cooke, James Smith, *University of California, Irvine*

6RM.5 2:00 **Chemical Composition of Coastal Ultrafine Aerosol Particles via Orbitrap High-Resolution Mass Spectrometry.** TERESA PALACIOS DIAZ, Anna Kapp, Kristen Cramer, Adam Thomas, James Smith, *University of California, Irvine*

6RM.6 2:15 **Vertical Distribution and Composition of Long-Range Transported Iodine Aerosol in the Free Troposphere.** AMNA IJAZ, Jerome Fast, Fan Mei, Mikhail Pekour, Beat Schmid, Israel Silber, Kaitlyn Suski, Jason Tomlinson, Adam Varble, Alla Zelenyuk, *Pacific Northwest National Laboratory*

6RM.7 2:30 **Unexpected Aerosol Acidity in Remote Marine Aerosols: Low pH Observed in Submicron Particles over the Southern Ocean.** KAYLEIGH REILLY, Tiantian Zhu, Cara Waters, Andreas Schmitt, Ruhi Humphries, Melita Keywood, Branka Miljevic, Clare Paton-Walsh, Dagmar Kubistin, Christina S. McCluskey, Kerri Pratt, Andrew P. Ault, *University of Michigan*

6RM.8 2:45 **Investigation of Wintertime Nitrate in Mammoth Cave National Park.** AMY P. SULLIVAN, Jihee Ban, Taehyun Park, Andrey Marsavin, Bret Schichtel, Anthony J. Prenni, Jeffrey L. Collett, Jr., *Colorado State University*

6TA INTERPLAY BETWEEN AEROSOL THERMODYNAMICS AND AGING 2

BALLROOM F – Andreas Zuend and Erin Bowey, chairs

6TA.1 1:00 **Single-Particle Insights Into IEPOX-SOA Chemistry During Aerosol-Cloud Cycling: Field Observations, Cloud-Chamber Experiments, and Particle-Resolved Modeling.** ALLA ZELENYUK, David Bell, Kaitlyn Suski, Georges Saliba, Amna Ijaz, Payton Beeler, Laura Fierce, John Shilling, Yuzhi Chen, ManishKumar Shrivastava, Joel Thornton, Raymond Shaw, Jerome Fast, Will Cantrell, Jesse Anderson, Richard Flagan, Gourihar Kulkarni, Jason Surratt, Avram Gold, Mikhail Ovchinnikov, Tania Guatam, Swarup China, Adam Varble, Mikhail Pekour, et al., *Pacific Northwest National Laboratory*

6TA.2 1:15 **Pop It Like It's Hot: Probing Organic Aerosol Viscosity One Particle at a Time.** ANDREW P. AULT, Katherine Kolozsvari, Cara Waters, Madeline Cooke, David Bell, Natasha Garner, Jin Yan, N. Cazimir Armstrong, Alison Fankhauser, Yao Xiao, Rebecca L. Parham, Jens Top, Markus Ammann, Jason Surratt, *University of Michigan*. INVITED.

6TA.3 1:45 **A 2D Polarity–Volatility Framework for Compound Classification and Automated Organic Aerosol Partitioning.** ANDREAS ZUEND, Dalrin Ampritta Amaladhasan, Dan Barthaux, *McGill University*

6TA.4 2:00 **Matrix Effects Reshape Organic Aerosol Volatility and Atmospheric Persistence.** ALEXANDER LASKIN, Qiaorong Xie, Abigail Smith, Catalina Botero-Carrizosa, Steven Sharpe, Gali Dekel, Nicole June, ManishKumar Shrivastava, Yuqing Dai, Kevin Ridgway, Christian L'Orange, Shantanu Jathar, Katherine Hopstock, Sergey Nizkorodov, Yinon Rudich, *Purdue University*

6TA.5 2:15 **Probing the Thermodynamics of Submicron Aqueous Aerosols Across Urban Pollution Gradients: Insights from Several Airborne NASA AQ Campaigns.** PEDRO CAMPUZANO-JOST, Donna Sueper, Simon Clegg, Guy Symonds, Benjamin A. Nault, Dongwook Kim, Seonsik Yun, Douglas A. Day, Taehyoung Lee, Taehyun Park, Jihee Ban, Joonyoung Ahn, Gangwoong Lee, Katherine Ball, John Crounse, Paul Wennberg, Yunseo Choi, Mark Zondlo, Alessandro Franchin, Greg Huey, Armin Wisthaler, Jack Dibb, Meehye Lee, Josh DiGangi, Jose-Luis Jimenez, *University of Colorado Boulder*

6TA.6 2:30 **The Role of Relative Humidity for the Formation of Oxidized Shells on Aged Wildfire Particles.** Johannes Passig, Ellen-Iva Rosewig, HASEEB HAKKIM, Mika Ihalainen, Anni Hartikainen, Markus Somero, Pasi Yli-Pirilä, Olli Sippula, Saara Peltokorpi, Kommula Snehitha M., Angela Buchholz, Annele Virtanen, Pauli Simonen, Ville Vakkari, Andreas Walte, Ralf Zimmermann, *University of Rostock*

6TA.7 2:45 **From Molecules to Mixtures: Predicting Apparent Volatility of Complex Organic Systems with Deep Learning.** Yinon Rudich, ALEXANDER LASKIN, Gali Dekel, *Weizmann Institute of Science*

Wednesday 3:00 PM - 3:30 PM
Coffee Break (Exhibit Hall AB)

Wednesday 3:30 PM - 5:00 PM
Session 7: Platform

7AC AEROSOL CHEMISTRY 3: SULFUR AND SELENIUM CHEMISTRY
BALLROOM AB – Tran Nguyen and Amna Ijaz, chairs

7AC.1 3:30 **Gaseous and Aerosol Phase Products Resulting from NO3 Oxidation of Dimethyl Selenide.** ERIN BOWEY, Linhui Tian, Lillian Tran, Stephanie Salas, Michael Lum, Ying Zhou, James F. Davies, Don Collins, Ying-Hsuan Lin, Roya Bahreini, *University of California, Riverside*

7AC.2 3:45 **New Insights Into Sulfur Oxidation Chemistry in the Troposphere Through Suspended Single Aqueous Aerosol Measurements.** ADRIANE TAM, Vicki Grassian, *University of California San Diego*

7AC.3 4:00 **Four Years of TOF-ACSM Measurements at Rothera Research Station, Antarctica.** Freya Squires, LEAH WILLIAMS, Tamazon Cowley, Evelyn Workman, Floortje van den Heuvel, Jonathan Witherstone, Amélie Kirchgaessner, Thomas Lachlan-Cope, *Aerodyne Research, Inc.*

7AC.4 4:15 **Unraveling the Molecular Diversity and Atmospheric Origins of C1–5 Organosulfates Using Chromatographic Separation and Orbitrap Isotopomic Analysis.** Shumin Liang, JIANZHEN YU, *Hong Kong University of Science & Technology*

7AC.5 4:30 **Molecular Evidence for the Atmospheric Transformation of Trash Burning Aerosol Into Organonitrate- and Organosulphate-Rich Haze.** AMNA IJAZ, Susan Mathai, Zezhen Cheng, Simeon Schum, Nurun Nahar Lata, William Kew, Claudio Mazzoleni, Lynn Mazzoleni, Swarup China, *Pacific Northwest National Laboratory*

7AC.6 4:45 **Coal-Fired Power Emissions and Heterogeneous Chemistry Drive Delhi's Sulfate Pollution.** RAKESH MAITY, Indranil Nandi, Ajit Kumar, Vikram Singh, Dilip Ganguly, Mayank Kumar, *Indian Institute of Technology Delhi*

7ES EXHIBITOR AND INSTRUMENT APPLICATION SHOWCASE 3
EXHIBIT HALL AB – Amy Sullivan and Varun Yadav, chairs

7ES.1 3:30 **Real-Time Chemical Speciation and Source Apportionment of Ambient PM2.5 with the AIRMon Automated FTIR Monitor.** NIKUNJ DUDANI, Andrea Baccarini, Satoshi Takahama, *Aerospec SA*

7ES.2 4:15 **From Indoor Air to Clouds: Real-Time Holographic Imaging and AI-Based Characterization of Airborne Particles.** JIARONG HONG, *Particle4X, Inc.*

7ES.3 4:45 **Diverse Environmental Testing & Evaluation Control Technology (DETECT) System.** ANDY TOLLEY, Anthony Pacheco, David Borth, *Ambilabs*

7IA INDOOR AEROSOLS 3
BALLROOM H – Qing Ye and Tyson Berg, chairs

7IA.1 3:30 **Moisture-Mediated Connections Between Fungal Gene Expression and Microbial Volatile Emissions in Indoor Dust and Carpet.** Neeraja Balasubrahmaniam, Sumaiya Hassan, Emma Hall, Bridget Hegarty, Pawel K. Misztal, Allen Goldstein, Rachel I. Adams, Karen C. Dannemiller, SARAH HAINES, *The Ohio State University*

7IA.2 3:45 **Formation of Large Amines as Potential New Particle Nuclei During 222 NM Photolysis of Quaternary Ammonium Compounds.** TYSON BERG, Taehyun Park, Morgan Selby, Jose Hernandez, Jienan Li, Delphine K. Farmer, *Colorado State University*

7IA.3 4:00 **Behaviors of Chlorinated Compounds from Indoor Hypochlorous Acid Cleaning and the Influences from Germicidal UV Lights.** QING YE, Matt Shulman, Sofie Schwink, Rebecca Mesburis, Andre Schaum, Seonsik Yun, Rileigh Robertson, Douglas A. Day, Anne V. Handschy, Kyle Zarzana, Kelvin Bates, Joost A. de Gouw, Marina Vance, Jose-Luis Jimenez, *University Corporation for Atmospheric Research*

7IA.4 4:15 **Rapid Secondary Organic Aerosol Formation from Volatile Chemical Product Sprays Under Indoor Ozone Levels in Laboratory Space.** SIJIA LIU, Amna Ijaz, Kieudiem Nguyen, Meredith Schervish, Meghan C. Guagenti, Zezhen Cheng, Manabu Shiraiwa, Celia Faiola, Sergey Nizkorodov, Alla Zelenyuk, *Pacific Northwest National Laboratory*

7IA.5 4:30 **Spatial and Seasonal Variation of Indoor – Outdoor PM2.5 Exposures and Its Chemical Composition in Urban Residents Across Four Cities in India.** CHAITANYA B. SHIVAKUMAR, Rajdeep Singh, Akshay Kumar, Vinayak Sahota, Harish C. Phuleria, *Indian Institute of Technology Bombay*

7IA.6 4:45 **Characterizing Indoor PM2.5 and PM10 in Utah K-12 Schools: Spatial, Temporal, and Occupancy-Driven Patterns.** JIMMY DIMPOR, Tristalee Mangin, Kerry Kelly, Ryan Thalman, Nancy Daher, *University of Utah*

7IM INSTRUMENTATION AND METHODS 5: PHYSICS
BALLROOM C – Matthew Brown and Miranda Hack, chairs

7IM.1 3:30 **An Electrodynamic Trap for the Study of Aerosol Nanoparticles.** JULIE PONGETTI, Adam Boies, *Stanford University*

7IM.2 3:45 **Field Evaluation of the Spider-MAGIC Bipolar, Scanning Mobility Particle Size Analyzer.** Stavros Amanatidis, Arantzazu Eiguren-Fernandez, Gregory S. Lewis, SUSANNE HERING, Haroula D. Baliaka, Purushottam Kumar, John Seinfeld, Richard Flagan, Bradley Ries, Roya Bahreini, Sean Raffuse, Ann M. Dillner, Armistead G. Russell, Nga Lee Ng, *Aerosol Dynamics Inc.*

7IM.3 4:00 **Advancing In-Situ Airborne Microphysical Measurements of Aviation Emissions During ecoDemonstrator.** MATTHEW BROWN, Steven Baughcum, Francesca Gallo, William M. Griffin, Michael Shook, Edward Winstead, Luke Ziemba, Richard Moore, *NASA Langley*

7IM.4 4:15 **Simultaneous Hyperspectral Imaging and Pyrometry for Aerosol and Vapor Temperature Profiling During Combustion.** MICHAEL ZACHARIAH, Qinghui Meng, *University of California, Riverside*

7IM.5 4:30 **Revisiting Fine Particle Size Distribution Extraction.** JIANI YANG, Purushottam Kumar, Vine Blankenship, Haroula D. Baliaka, Georgia Argyropoulou, Stavros Amanatidis, Susanne Hering, Nga Lee Ng, Richard Flagan, *California Institute of Technology*

7IM.6 4:45 **A Protocol for Merging Mobility and Aerodynamic Measurements of Solid Aerosol.** MIRANDA HACK, Darren Cheng, V. Faye McNeill, *Columbia University*

7SA SOURCE APPORTIONMENT 1: IDENTIFYING SOURCES IMPACTED BY TRANSPORT
BALLROOM G – Benjamin Nault and Mitchell Rogers, chairs

7SA.1 3:30 **Chemical Characteristics of PM1 and Secondary Aerosol Formation Driven by Local Chemistry and Regional Transport at a Coastal Site in Korea.** JIHYE MOON, Kyung-Duk Zoh, Hwajin Kim, *Seoul National University*

7SA.2 3:45 **Regional Transport and Biogenic Influences on Ultrafine Particle Composition in the Mojave Desert.** KRISTEN CRAMER, Sanjeevi Nagalingam, Alex Guenther, James Smith, *University of California, Irvine*

7SA.3 4:00 **Source Apportionment and Temperature Dependence of Secondary Organic Aerosol in New York City.** RUIZHE LIU, Yutong Liang, Sophia Hoch, Tianchang Xu, David Pando Gonzalez, Taekyu Joo, Anandi Williams, Mitchell Rogers, Mia Tran, Manaka Ogura, Megan Claflin, Daniel C. Blomdahl, Brian Lerner, Joseph Roscioli, Pawel K. Misztal, Drew Gentner, Nga Lee Ng, *Georgia Institute of Technology*

7SA.4 4:15 **A Multi-Dimensional Approach to Aerosols: Geospatial Mapping, Chemical Fingerprinting, and Statistical Modeling of Airborne and Settled Dust in an Urban Centre, Karachi - Pakistan.** Saiyada Shadiah Masood, HAIDER KHWAJA, Sumayya Saied, Muhammad Kamran Khan, Ghania Quadri, Farozan Umar, *University at Albany*

7SA.5 4:30 **Overview of the CARB High-Resolution Advanced Monitoring Program (CHAMP): An Expanded Monitoring Network to Address California's Air Quality Problems.** CHINMOY SARKAR, Alison Fankhauser, Morteza Amini, Christopher Niedek, Nga Lee Ng, Qi Zhang, Michael FitzGibbon, *Research Division, California Air Resources Board*

7SA.6 4:45 **Air Quality Dilemma in Karachi: Composition, Sources and Health Implications for Urban Centers.** Muhammad Kamran Khan, Saiyada Shadiah Masood, Sumayya Saied, HAIDER KHWAJA, *Textile Institute of Pakistan*

7TA INTERPLAY BETWEEN AEROSOL THERMODYNAMICS AND AGING 3
BALLROOM F – Ryan Sullivan and Stephanie Salas, chairs

7TA.1 3:30 **The Critical Role of Ammonia in the Aqueous-Phase Transformation of Hydroxymethyl Hydroperoxide on Deliquesced Aerosol Particles.** YULU JIA, Zhongming Chen, *Peking University*

7TA.2 3:45 **Surface-Sensitive Mass Spectrometry – An Approach to Examining Particle Oxidation and Particle Growth.** LISA WINGEN, Zachary Schiffman, Elizabeth Wingen, Yuekin Yang, Michelia Dam, Yiming Qin, James Smith, Barbara Finlayson-Pitts, *University of California, Irvine*. INVITED.

7TA.3 4:15 **Phase States Shape the Size-Dependent Hygroscopicity of Organic–Water Nanoclusters.** JIAQI WEN, Xiaohan Li, Ian Bourg, *Princeton University*

7TA.4 4:30 **Exploring the Connection Between Aerosol Particle Properties and Reactivity.** STEPHANIE SALAS, Craig Sheldon, Kyle McMillan, Aaron M. Palmisano, Teresa Palacios Diaz, Katie Morton, Anika Patel, Ryan Davis, James F. Davies, *University of California, Riverside*

7TA.5 4:45 **Spontaneous Oxidation of Nitrous Acid at Atmospherically Relevant Concentrations on Aerosol Interfaces and Its Feedbacks Between Uptake Kinetics and Acidity.** GRAHAM THORNHILL, Luke Monroe, Jack Hall, Ryan Sullivan, *Carnegie Mellon University*

7WF THE BREATH OF FIRE: AEROSOL, HEALTH, AND PROTECTION IN THE WILDLAND-URBAN INTERFACE (WUI) 2: METALS AND OTHER AEROSOL COMPONENTS
BALLROOM DE – Mike Kleeman and Colette Schissel, chairs

7WF.1 3:30 **Understanding Spatial Variations in Non-Refractory PM1 Compositions from the Los Angeles Wildland Urban Interface (WUI) Fires.** COLETTE SCHISSEL, Albert Kyi, Chun-Ying Chao, Katarina Konon, Shihao Zhai, Chou-Hsien Lin, Evelyn Deveraux, Anna Neville, Daniel H. Sung, Lea El Khoury, Pawel K. Misztal, David T. Allen, Lea Hildebrandt Ruiz, *The University of Texas at Austin*

7WF.2 3:45 **Aerosol Exposures During Debris Cleanup After a Major WUI Fire.** Tong Zhang, Sunny Kant, Colette Schissel, David T. Allen, MICHAEL KLEEMAN, *University of California, Davis*

7WF.3 4:00 **Modeling Smoke Toxicity in WUI Fires with QUIC-Fire.** ALEXANDER JOSEPHSON, Isabella Martinez-Pruet, Matthew Nelson, Sara Brambilla, *Los Alamos National Laboratory*

7WF.4 4:15 **Airborne Lead Nanoparticles from Smoke and Dust After the Los Angeles Fire.** ALIREZA NAMAYANDEH, Charles Lamb, Frida Garcia-Ledezma, Catherine Erol, Dan Kubota, Raphael Kim, Jonathon Howell, Charise Young, Scott Fendorf, *Stanford University*

7WF.5 4:30 **Near-Real-Time Monitoring of Particulate Metals Across the South Coast Air Basin: Insights Into Extreme Air Quality Events.** PROVAT SAHA, Christopher Lim, Steven Boddeker, Julia Montoya-Aguilera, Zihan Zhu, Joseph Salazar, Yumeng Cui, Mohammad Sowlat, Payam Pakbin, Stephen Dutz, Jason Low, *South Coast Air Quality Management District*

7WF.6 4:45 **Characterizing Postfire Concentrations and Elemental Speciation of Ambient PM2.5 and PM10 Samples Within the Eaton and Palisades Fire Burn Zones.** KY TANNER, Kevin Ridgway, Haoxuan Chen, Yifang Zhu, Christian L'Orange, Shantanu Jathar, *Colorado State University*

Wednesday 5:00 PM - 6:00 PM
Working Group Meetings 2: Aerosol Chemistry (Ballroom AB)

Wednesday 5:00 PM - 6:00 PM
Working Group Meetings 2: Health Related Aerosols (Ballroom C)

Wednesday 5:00 PM - 6:00 PM
Working Group Meetings 2: Combustion and Materials Synthesis (Ballroom F)

Wednesday 5:00 PM - 6:00 PM
Working Group Meetings 2: Instrumentation and Methods (Ballroom G)

Wednesday 5:00 PM - 6:00 PM
Working Group Meetings 2: Control and Mitigation Technology (Ballroom H)

Wednesday 6:00 PM - 7:00 PM
Annual Business Meeting (Ballroom DE)

Wednesday 7:00 PM - 10:00 PM
AAAR Musical Bingo Bash (Exhibit Hall AB)

Thursday

Thursday 7:00 AM - 8:00 AM
Committee Meetings 5 - Conference (Room 207)

Thursday 7:00 AM - 8:00 AM

Committee Meetings 5 - Publications (Room 208)

Thursday 7:00 AM - 8:00 AM
Committee Meetings 5 - Representation and Equity Affairs (Room 209/210)

Thursday 8:00 AM - 9:15 AM
Plenary 3 (Ballroom DE)

8:00 **The Changing Face of U.S. Air Quality: Two Decades of Rising Contributions of Mineral Dust** Jenny Hand, *Colorado State University, CIRA*

Moderator Allison C. Aiken, *Los Alamos National Laboratory*

9:00 **Friedlander, Hering, and Teaching, Mentoring, and Training Awards Presentation** Gabriel Isaacman-VanWertz, *Virginia Tech*

Thursday 9:00 AM - 3:30 PM
Exhibits Open (Exhibit Hall AB)

Thursday 9:15 AM - 9:45 AM
Coffee Break (Exhibit Hall AB)

Thursday 9:45 AM - 11:30 AM
Session 8: Platform

8AC AEROSOL CHEMISTRY 4: FORMATION AND EVOLUTION OF BIOGENIC SOA
BALLROOM AB – Christopher Kenseth and Samantha Bell, chairs

8AC.1 9:45 **Chemical Characterization of Secondary Organic Aerosol Formed from the Hydroxyl Radical Initiated Oxidation of Volatile Organic Compounds Derived from Cyanobacterial Harmful Algal Blooms.** SAMANTHA BELL, Mia Kauffman, Cara Waters, Andrew P. Ault, Jason Surratt, *University of North Carolina at Chapel Hill*

8AC.2 10:00 **From the Chamber to the Atmosphere: Understanding the Influence of RO_2 Fate Distributions on Secondary Organic Aerosol Composition Through Chamber-Ambient Comparisons.** ELINOR CABALLERO, Nadia Tahsini, Matthew Goss, Lesly Franco Deloya, Erik Helstrom, Jesse Kroll, Weiwei Hu, Jose-Luis Jimenez, Manjula Canagaratna, Hannah Kenagy, *University of Minnesota*

8AC.3 10:15 **Quantifying the Spatial Heterogeneity of Biogenic Emissions at Kilometer-Level Distance Scales Using a Tropical Ecosystem as a Case Study.** SHALLON MUTSA JOZI, Jacob Hayes, Chloe Chee-Zefi, Maya Huang, Jordan Karubian, Leighton Reid, Gabriel Isaacman-VanWertz, *Virginia Tech*

8AC.4 10:30 **Organic Synthesis, Isomer-Resolved Mass Spectrometry, and Computational Chemistry in the Study of Pinene Secondary Organic Aerosol.** CHRISTOPHER KENSETH, Olivia Hakan, Donterrio Moore, Yuzhi Chen, Vili-Taneli Salo, Matthieu Riva, Michael Kamrath, John Shilling, Henrik Kjaergaard, Joel Thornton, *University of Washington*

8AC.5 10:45 **Terpene Structure Governs Humidity-Enhanced New Particle Formation Through An OH-Sensitive Ozonolysis Network.** TIJESUNI ADEOYE, Giuseppe Petrucci, *University of Vermont*

8AC.6 11:00 **Molecularly Resolved Fenton-like Reactivity of Organic Peroxides in Monoterpene-Derived Secondary Organic Aerosol.** YUE ZHAO, Fengfeng Dong, Chongxuan Chang, *Shanghai Jiao Tong University*

8AC.7 11:15 **Separating Isomers and Identifying Molecular Structures in Organic Aerosol by Combined Thermal Desorption Chemical Ionization Ion Mobility and Mass Spectrometry.** SIEGFRIED SCHOBESBERGER, Madison Rutherford, Qing Ye, Christopher Kenseth, Brett Palm, Andre Schaum, Jia Jiang, Douglas A. Day, Anne V. Handschy, Jose-Luis Jimenez, Joost A. de Gouw, *University of Eastern Finland*

8AD DUST IN EARTH AND CELESTIAL SYSTEMS: SOURCES, SINKS, CHARACTERISTICS, ENVIRONMENTAL AND CLIMATIC IMPACTS 1:

DUST IN EARTH SYSTEMS
BALLROOM H – Karin Ardon-Dryer and Pubuduni Ekanayaka, chairs

8AD.1 9:45 **Smoke, Dust, and Resilience: Unraveling the March 2025 Oklahoma Compound Hazards.** SANDRA MARCELA LORIA SALAZAR, Connor Flynn, Hayden Webb, Emily West, Jeffrey Lee, Cameron Homeyer, Stacey Hitchcock, *University of Oklahoma, School of Meteorology*. INVITED.

8AD.2 10:15 **Iron-Driven Chlorine Activation in Mixed Dust–Sea Spray Atmospheric Particles Collected Aboard Research Aircraft over the Tropical Atlantic.** TEMITOPE OLAYEMI, Steven Sharpe, Alexander Laskin, Julius Ese, Seth Koloski, Daniel Knopf, John Mak, Julia Marcontonio, Bingbing Wang, Jiao Xue, *Purdue University*

8AD.3 10:30 **Anthropogenic Dust Emissions Are Greatly Underestimated in the Contiguous U.S.** HAIHUI ZHU, Jennifer McGinnis, Moumita Chanda, Alex Maas, Jude Bayham, James Crooks, *Department of Atmospheric Science, Colorado State University*

8AD.4 10:45 **Desert-Urban SysTem IntegratEd AtmospherIc Monsoon (DUSTIEAIM): Overview and Findings from the First Summer.** ALLISON AIKEN, Katherine Benedict, Sonia Kreidenweis, Lynn M. Russell, Daniel Feldman, DUSTIEAIM Science and Operations Teams, *Los Alamos National Laboratory*

8AD.5 11:00 **Airborne Measurements of Local and Long-Range Transported Mineral Dust in the Arctic.** XINGZHI CHEN, Logan Forshee, Andrew Holen, Vanessa Selimovic, Lauren Zamora, Kerri Pratt, *University of Michigan*

8AD.6 11:15 **Biofilm Formation Facilitates Niche Adaptation and Survival of Bacillus Species in Dust-Borne Bioaerosols.** NAAMA LANG-YONA, Ella Lahav, Hilit Levy Barazany, Talal Salti, Liat Rahamim Ben Navi, Prem Anand Murugan, Ilana Kolodkin-Gal, *Technion - Israel Institute of Technology*

8AE AEROSOL EXPOSURE 1
BALLROOM F – Nusrat Jung and Rileigh Robertson, chairs

8AE.1 9:45 **Understanding the Fate of Airborne Particles in a Classroom: Advanced Numerical Modeling and Measurements.** ROY KING, Suresh Dhaniyala, *Clarkson University*

8AE.2 10:00 **Modeling Wildfire Smoke Infiltration to Determine Residential Building Parameters and Meteorological Factors Influencing Indoor Particulate Matter Concentrations.** RILEIGH ROBERTSON, Marina Vance, Surya Goda, *University of Colorado Boulder*

8AE.3 10:15 **An Integrated Platform for Open-Burning Aerosols Generation, Low-Cost Sensor Evaluation, and Toxicological Characterization.** SHUBHAM SUNIL SHARMA, Dhruv Mitroo, Yuezhi (August) Li, Yuxuan Ren, Benjamin Kumfer, *Washington University in St. Louis*

8AE.4 10:30 **Biological Exposure Studies to Simulated Atmospheric Pollutants Using a Smog Chamber: Insights from Synchrotron Radiation Imaging.** AMBRE DELATER, Mathilde Ropiquet, Christina Vasilakopoulou, Lucy Gerard, Clément Buissot, Anouk Marsal, Mathieu Cazaunau, Edouard Pangui, Bénédicte Picquet-Varrault, Gaëlle Uzu, Sophie Lanone, Patrice Coll, *Université Paris Cité and Univ Paris Est Creteil, CNRS, LISA*

8AE.5 10:45 **Human Ozone Exposure and Autoxidation Lead to New Particle Formation in Indoor Environments.** KIEUDIEM NGUYEN, Meredith Schervish, Pascale Lakey, Suwhan Yee, Teresa Palacios Diaz, Madeline Cooke, Lena Gerritz, Lisa Wingen, Shen Yang, Nijing Wang, Tatjana Arnoldi-Meadows, Jonathan Williams, Dusan Licina, Donghyun Rim, James Smith, Manabu Shiraiwa, *University of California, Irvine*

8AE.6 11:00 **Characterizing Aerosol Emissions from Musical Activities: Insights from Singing and Wind Instrument Performance.** CHIEN-YU HSU, Jun Wang, *University of Cincinnati*

8AE.7 11:15 **Tackling India's Air Pollution Requires Focusing on Informal Sources.** LUCAS ROJAS-MENDOZA, Bujin Bekbulatb, Libby H. Koolik, Yuzhou Wang, Cassidy Barrientos, Neeldip Barman, Krishnendu Barman, Piyush Bhardwaj, Srinidhi Balasubramanian, Chandra Venkataraman, Julian Marshall, Joshua S. Apte, *University of California Berkeley*

8ES EXHIBITOR AND INSTRUMENT APPLICATION SHOWCASE 4
EXHIBIT HALL AB – Amy Sullivan and Cameron Martin, chairs

8ES.1 9:45 **A Compact GC-PTR-TOF-MS for the Monitoring of VOCs.** MEGAN CLAFLIN, Brian Lerner, Manjula Canagaratna, John Jayne, *Aerodyne Research, Inc*

8ES.2 10:30 **Single-Channel and Dual-Channel: Applications for the OmniCount(TM) Portable Water-Based CPC.** ANDREA J. TIWARI, Lucia Bustin, Patrick Roth, Florian Dahlkötter, Torsten Tritscher, Daniel R. Troolin, Oliver Bischof, Carsten Kykal, *TSI Incorporated*

8IM INSTRUMENTATION AND METHODS 6: HARDWARE
BALLROOM C – Ogochukwu Enekwizu and Gregory Vandergrift, chairs

8IM.1 9:45 **A Next-Generation Aerial Micro-Aerosol Sampler (MAS).** ALYSSA ALSANTE, Thien Nguyen, Joe Baldwin, Mike Benson, *Oak Ridge National Laboratory*

8IM.2 10:00 **Aerodyne Aerosol Mass Spectrometer Light-Scattering Collection Efficiency Measurements of Smoke from Laboratory Burns of Wildland Fuels.** ANN M. MIDDLEBROOK, Alessandro Franchin, *NOAA Chemical Sciences Laboratory*

8IM.3 10:15 **Characterization of a Hydration Spectrometer (HySpec) System for Studying Aerosol Cloud Interactions.** OGOCHUKWU ENEKWIZU, Ernie R. Lewis, Arthur J. Sedlacek, *Brookhaven National Laboratory*

8IM.4 10:30 **Molecular-Level Source Apportionment and Semi-Quantitation of Secondary Organic Aerosol Measurements Using Machine Learning and High Resolution Mass Spectrometry.** GREGORY W. VANDERGRIFT, Sining Niu, Nurun Nahar Lata, Ashfiqur Rahman, Zezhen Cheng, Swarup China, *Pacific Northwest National Laboratory*

8IM.5 10:45 **The Impact of Optical Measurement Techniques on Measured Aerosol Particle Size Distributions.** JESSICA GASPARIK, Ernie R. Lewis, Janek Uin, *Brookhaven National Laboratory*

8IM.6 11:00 **Not All Tandem Classifier Systems Are Created Equal.** Morteza Kiasadegh, Timothy Sipkens, Jonathan Symonds, JASON S. OLFERT, *University of Alberta*

8IM.7 11:15 **Theoretical and Experimental Characterization of Low-Cost Sensor Response Function.** SREEKESH KOOKKAL, Suresh Dhaniyala, *Clarkson University*

8SA SOURCE APPORTIONMENT 2: IDENTIFYING SOURCES WITH PMF
BALLROOM G – Emily Franklin and Shihao Zhai, chairs

8SA.1 9:45 **Integrated Source Apportionment of VOCs and Secondary Organic Aerosol Tracers Using Adjusted Initial Concentrations and Time-Shifted PMF.** YI-HSIEN LIU, Chun-Sheng Huang, Chia-Yang Chen, Ze-Ying Chen, Chang-Fu Wu, *National Taiwan University*

8SA.2 10:00 **Multi-Year Variability of Cooking Organic Aerosol in the San Joaquin Valley Using Rolling-Window PMF of ACSM Measurements.** ASHUTOSH KUMAR SHUKLA, Justin Trousdell, Wenqing Jiang, Chinmoy Sarkar, Morteza Amini, Qi Zhang, *University of California, Davis*

8SA.3 10:15 **Non-tailpipe Emissions as a Source of Urban Organic Aerosol: Laboratory Characterization and Near-Roadway Source Apportionment.** DHIVYA MANICKAM, Samuel La Salle, Madeline Cooke, Lisa Wingen, Adam Thomas, Berenice Rojas, Véronique Perraud, Celia Faiola, Barbara Finlayson-Pitts, James Smith, *University of California, Irvine*

8SA.4 10:30 **Positive Matrix Factorization Provides Insights Into Sources of Particulate Matter and Volatile Organic Compounds in the El Paso Area.** SHIHAO ZHAI, Daniel H. Sung, Chun-Ying Chao, Kyle Druckman, Kacper Przykaza, Lea El Khoury, David Sullivan, Pawel K. Misztal, Lea Hildebrandt Ruiz, *University of Texas at Austin*

8SA.5 10:45 **Urban Cooking-Related Emissions: Interconnections and Divergent Behavior of Cooking Organic Aerosol and Gas-Phase Organic Compounds.** DREW GENTNER, Jo Machesky, Anna Oehlerking, Mia Tran, Mitchell Rogers, Minguk Seo, Taekyu Joo, Tori Hass-Mitchell, Benjamin A. Nault, Joseph Roscioli, Jordan Krechmer, Adam Thomas, Paloma Lenz, Manjula Canagaratna, Andrew Lambe, *Yale University*

8SA.6 11:00 **Sub-Daily PM2.5 Source Apportionment from Automated FTIR Spectroscopy: First Application of the U.S. EPA ESAT Toolkit to Infrared Aerosol Spectra.** Andrea Baccarini, Carolina Molina, Eleni Liakakou, Aikaterini Bougiatioti, Nikolaos Mihalopoulos, Athanasios Nenes, Satoshi Takahama, NIKUNJ DUDANI, *Aerospec SA*

8SA.7 11:15 **Emerging Chemistry and Seasonal Drivers of Urban Aerosol Formation in Melbourne, Australia.** EMILY FRANKLIN, Caleb Mynard, Erin Dunne, James Harnwell, Amanda Wheeler, Melita Keywood, *CSIRO Environment*

8WF THE BREATH OF FIRE: AEROSOL, HEALTH, AND PROTECTION IN THE WILDLAND-URBAN INTERFACE (WUI) 3: 2025 LA WILDFIRES
BALLROOM DE – Chun-Ying Chao and Aika Davis, chairs

8WF.1 9:45 **One Year of PHOENIX: Lessons Learned from a Dense Sensor Network for Outdoor PM Monitoring in Altadena, CA After the 2025 Eaton Fire.** HAROULA D. BALIAKA, Coleen Roehl, Nikos Kanakaris, Manuel de la Torre Juárez, Merritt McDowell, Isaac Aguilar Rivera, Théo Tacail, François L.H. Tissot, Sina Hasheminassab, Thomas Morrell, Rima Habre, Nga Lee Ng, John Seinfeld, Richard Flagan, Paul Wennberg, *California Institute of Technology*

8WF.2 10:00 **Air Quality During and After the 2025 Southern California Fires and the Utility of Potassium as a Fire Tracer.** CATHERINE BANACH, Kyle Caulson, Laura Thapa, Pablo Saide, Suzanne E. Paulson, *University of California, Los Angeles*

8WF.3 10:15 **Indoor and Outdoor Gas- and Particle-Phase Air Pollutant Levels During and After the 2025 Los Angeles Wildfires.** YUAN YAO, Qiyue Nie, Jing Li, Muchuan Niu, Yihan Fan, Qiao Yu, Diane Garcia-Gonzales, Haoxuan Chen, Feng Gao, Michael Jerrett, Yifang Zhu, *University of California Los Angeles*

8WF.4 10:30 **Ambient and Indoor Particle Composition in the Burn Zone and Nearby Neighborhoods After the 2025 Southern California Wildfires.** CHUN-YING CHAO, Albert Kyi, Katarina Konon, Shihao Zhai, Chou-Hsien Lin, Evelyn Deveraux, Daniel H. Sung, Anna Neville, Lea El Khoury, Pawel K. Misztal, David T. Allen, Lea Hildebrandt Ruiz, *University of Texas at Austin*

8WF.5 10:45 **Wildland Urban Interface (WUI) Fire Smoke: Health Risks and Public Health Protection.** JASON SACKS, *U.S. Environmental Protection Agency*. INVITED.

8WF.6 11:00 **The L.A. Fire HEALTH Study: Characterizing Environmental Exposures and Health Effects from Wildland–Urban Interface Fires.** KARI NADEAU, *University of California, Los Angeles*. INVITED.

Thursday 11:30 AM - 1:00 PM
Cheesecake Bar (Exhibit Hall AB)

Thursday 11:30 AM - 1:00 PM
AS&T Editorial Advisory Board Lunch (Room 211)

Thursday 12:00 PM - 1:00 PM
Committee Meetings 6 - Early Career (Room 207)

Thursday 12:00 PM - 1:00 PM
Committee Meetings 6 - Long-Range Planning (Room 208)

Thursday 12:00 PM - 1:00 PM
Learn how we're addressing Representation and Equity at AAAR (Ballroom AB)

Thursday 1:00 PM - 3:00 PM
Session 9: Poster (Exhibit Hall AB)

9AC AEROSOL CHEMISTRY 5: POSTERS

EXHIBIT HALL AB

9AC.1 **Effects of Varying Ozone and Relative Humidity on α-Pinene New Particle Formation.** ADAM BUDZYN, Giuseppe Petrucci, *University of Vermont*

9AC.2 **Effect of Ammonium Salt Counter Ion on Product Diversity in Reactions with Methylglyoxal.** ANDREW BERKE, Yuki Yang, Cecilia Wheeler, Robert Samples, *Smith College*

9AC.3 **Underappreciated Role of Nitrogen Dioxide in the Production of Highly Oxygenated Organic Molecules and Implications for Aerosol Formation.** HAN ZANG, Yue Zhao, Wei Huang, Yuliang Liu, Chenxi Li, Wei Nie, Federico Bianchi, *Shanghai Jiao Tong University*

9AC.4 **Matrix Effects on the Photolytic Aging of Laboratory Generated Secondary Organic Aerosol.** ANTHONY JUE, Sergey Nizkorodov, *University of California, Irvine*

9AC.5 **Implementation and Evaluation of the Updated AMOREv2.1 (Automated MOdel REduction) on a Comprehensive Monoterpene Mechanism.** KATHERINE STEVENSON, Forwood Wiser, V. Faye McNeill, *Columbia University*

9AC.7 **Navigating Challenging Areas of Atmospheric Reactivity Space in Environmental Chamber Studies with Direct RO2 Generation.** COOPER CRABTREE, Victoria Barber, *University of California, Los Angeles*

9AC.8 **From Laboratory Experiments to Global Modeling: Advancing Understanding of Secondary Organic Aerosol Formation from Anthropogenic and Biogenic Precursors.** YANYU ZHANG, William Porter, Maryam Ghadimi, Thomas Eckel, David R. Cocker, *University of California, Riverside*

9AC.9 **Chemical Transformations of Pesticides in Aerosols Produced from Cannabis Vaping.** DALIA CRUZ CARBAJAL, Nikolas Castanon, Rhianna Evans, Tran Nguyen, *University of California, Davis*

9AC.10 **Secondary Organic Aerosol from Chlorine-Initiated Oxidation of Citronellal Under Indoor and Outdoor Lighting Conditions.** LEA EL KHOURY, Lea Hildebrandt Ruiz, *University of Texas at Austin*

9AC.11 **Intermolecular Interactions Between Methoxyphenols and Quinones: Implications for Brown Carbon from Bulk Solutions to Levitated Droplets.** AHMADRAZA CHAUDHARY, Colton Calvert, Holly Anthony, Micah Miles, Elijah Schnitzler, *Oklahoma State University*

9AC.12 **Practical Approach to Improved Temperature Dependence of Vapor Pressure in Modelled Partitioning of Biomass Burning Organic Aerosol.** Sithumi Liyanage, Madiha Mazhar, Christian Escritt, ELIJAH SCHNITZLER, *Oklahoma State University*

9AC.13 **Contrasting Impacts of Long-Range Transported Wildfire Smoke and Regional Combustion Plumes on Biogenic Organosulfate Chemistry in a Forest Environment.** SINING NIU, Gregory W. Vandergrift, Meghan C. Guagenti, Nurun Nahar Lata, Zezhen Cheng, Ashfiqur Rahman, Jing Li, Swarup China, *Pacific Northwest National Laboratory*

9AC.14 **Photolysis-Driven Aging of Smoke Film on Urban Surfaces and Wash-Off Effects.** JANIE (YEASEUL) KIM, Willow Hwang, Manjula Canagaratna, Benjamin A. Nault, Anita Avery, Mitchell Alton, Lisa Azzarello, Christopher Cappa, Cora Young, Rachel O'Brien, *University of Michigan*

9AC.15 **Formation and Photolysis of Wildfire-Related Organonitrates in Mixed VOC Systems.** JIANHUAI YE, Chen Zhang, *Southern University of Science and Technology*

9AC.16 **In Situ Characterization of Trace Gas and Aerosol Emissions from Prescribed Burns in North Florida.** MANISHA MEHRA, Amir Reza Sharafuddin, Ruoyu Zhang, Chanakya Bagya Ramesh, Sujan Shrestha, Holly Nowell, Hannah Schley, Siyuan Wang, Yang Wang, *University of Miami*

9AC.17 **Exploring the Influence of Particle Properties on the Complex Refractive Index of BrC-Containing Aerosol.** KATELYN PACAUD, Malsha Amugoda, Pedro De Allende, James F. Davies, *University of California, Riverside*

9AC.18 **Determination of Channel-Specific Unimolecular Reaction Rate Coefficients of Peroxy Radicals Formed from the OH-Initiated Oxidation of α-Pinene.** QINGWEN TAO, Jonathan Varelas, John Crounse, Paul Wennberg, Franz Geiger, Regan Thomson, Lu Xu, *Washington University in St. Louis*

9AC.19 **Using Partitioning Models to Investigate the Apparent Surface PKa Values of Medium Chain Fatty Acids.** REBIKA TAMANG, Jacob Twichell, Michael Jacobs, *Texas State University*

9AC.20 **Coupled Condensational Growth and Colorimetric Analysis for Aerosol pH Measurement of Atmospherically Relevant Systems.** SOPHIE BAZYDOLA, Cara Waters, Mia Kauffman, Anthony Rovinski, Andrew P. Ault, *University of Michigan*

9AC.21 **Measuring How Surface Partitioning of Alkyl Acids Influences Bulk Microdroplet pH.** WILLIAM DEAN, Michael Jacobs, *Texas State University*

9AC.22 **Surface Tension Shifts in Hanging Droplet Exposed to Organic Gas Concentration Step Changes.** TSERING YOUDON, Michael Haines, Joseph Woo, *Lafayette College*

9AC.23 **Halogen Activation by Photosensitized Processes in Atmospheric Aerosol Particles.** ELEANOR MIKO, Sergey Nizkorodov, *University of California, Irvine*

9AC.24 **Heterogenous Nitration and Oligomerization Reaction of BSA Protein with Urban Air.** RILEY SMITH, Sadie Morley, Alex Volkova, Rachel Davey, Erick Mattson, J. Alex Huffman, *University of Denver*

9AC.25 **Optical Properties and Radiative Effects of UTLS Aerosols Constrained by Chemical Imaging.** YAOWEI LI, Steven Sharpe, John Dykema, Xiaoli Shen, Felipe Rivera-Adorno, Daniel Cziczo, Alexander Laskin, Frank Keutsch, *California Institute of Technology*

9AC.26 **Assessment of Isoprene Epoxydiol Reactive Uptake Onto Acidic Sulfate Aerosols by Real-Time Isomer Characterization.** MATTHIEU RIVA, Yuzhi Chen, ManishKumar Shrivastava, Peter Mettke, Molly Frauenheim, Rebecca L. Rice, Brian Gaudet, Jason Surratt, Megan Claflin, Harald Stark, Vasyl Yatsyna, Stephan Graf, Urs Rohner, Laurent Poulain, Hartmut Herrmann, Sebastian Gerber, Felipe Lopez-Hilfiker, Avram Gold, Michael Kamrath, *CNRS-IRCELYON*

9AD DUST IN EARTH AND CELESTIAL SYSTEMS: SOURCES, SINKS, CHARACTERISTICS, ENVIRONMENTAL AND CLIMATIC IMPACTS 2: POSTERS

EXHIBIT HALL AB

9AD.2 **How Many Dust Storms Occurred Across the Western United States over the Last 20 Years?** KARIN ARDON-DRYER, Felicia Dogbey, Kelsey Olson, Cade Hogle, Ally Brawner, *Texas Tech University*

9AD.3 **Near-Source Deposition of Rare Earth Element-Bearing Fugitive Dust: Open-Source Dispersion Modeling with pyAERMOD.** SHANNON CAPPS, *Drexel University*

9AD.4 **Boundary-Element Simulation of Broadband Extinction Properties of Engineered Magnesium Aggregates for Warming Mars.** HAO ZHANG, Cyprien Jourdain, Edwin Kite, Adam Boies, *Stanford University*

9AD.5 **Chemical Properties of Postfire Dust.** VERA SAMBUROVA, Yasaman Raeofy, Ayalkibet Mekonnen Seka, Eden Furtak-Cole, Markus Berli, Hans Moosmüller, *Desert Research Institute*

9AD.6 **Chemistry of Post-Fire Dust and Soil Water Repellency.** YASAMAN RAEOFY, Vera Samburova, Markus Berli, Eden Furtak-Cole, Ayalkibet Mekonnen Seka, Hans Moosmüller, *Desert Research Institute*

9AD.7 **Great Salt Lake Dust and Urban Air Quality: A Two-Year Sensor Network Study.** TRISTALEE MANGIN, Dillon Tang, Yiqing Meng, Nancy Daher, Kerry Kelly, *University of Utah*

9AD.8 **Elucidating the Impact of the Saharan Dust Layer on Chlorine Radical Formation Through Field Observations in the Atlantic Tropics.** EMMA J. PELLERIN, Lauren A. Garofalo, Delphine K. Farmer, Katelyn Rediger, Tyson Berg, Adam De Groodt, Morgan Selby, Julia Marcontonio, Bighnaraj Sarangi, John Mak, *Colorado State University*

9AD.9 **Experimental Optical Characterization of Mineral Dust Aerosols Using Wide-Angle Angular Light Scattering.** PUBUDUNI EKANAYAKA, Hans Moosmüller, Prakash Gautam, *Desert Research Institute*

9AD.10 **Single-Particle Analysis of Wintertime Dust in Salt Lake City, Utah.** SHATABDI ROY, Emily Costa, Tiantian Zhu, Holly Lawson, Theo Severud, James Christie, Logan Forshee, Vanessa Selimovic, Maria Garcia, Anna Gannet Hallar, Cassandra Gaston, Kerri Pratt, *University of Michigan*

9AD.11 **Thin Secondary Organic Aerosol Coatings Suppress Heterogeneous Ice Nucleation of K-feldspar Dust.** YUZHI CHEN, Gourihar Kulkarni, Alla Zelenyuk, Nurun Nahar Lata, John Shilling, *Pacific Northwest National Laboratory*

9AD.12 **Characterizing Mineral Dust Physical Properties and Vertical Profiles in Oklahoma, U.S.** HAYDEN WEBB, Sandra Marcela Loria Salazar, Connor Flynn, Hans Moosmüller, *University of Oklahoma, School of Meteorology*

9AD.13 **Detecting Dust Particles During Dust Events Using Low-Cost Sensors.** KARIN ARDON-DRYER, John Garber, Melodie Martinez-Manahan, *Texas Tech University*

9AD.14 **Persistent Monsoon Aerosol Loading over the Western Himalaya from Multi-Dataset Observations and Transport Analysis.** ABIDINA BELLO, Anshuman Bhardwaj, Lydia Sam, *University of Aberdeen, UK*

9AD.15 **Direct-on-Filter Raman Spectroscopy for Quantifying Respirable Crystalline Silica: Challenges and Considerations.** XIAOLIANG WANG, Bankole Osho, Lily Raymond, Mohammadreza Elahifard, Yifei Jin, Behrooz Abbasi, Judith Chow, John Watson, *Desert Research Institute*

9AD.16 **Integrated Impacts of Smog Pollution and Ecosystem Degradation on Urban Livability and Economic Sustainability in Pakistan.** NABEELA FARAH, *Independent Researcher*

9AD.18 **Laboratory Investigation of Mineral Dust Charging for Improved Understanding of Coarse Mode Mineral Dust Transport.** JUNE NORWOOD, Kyle Gorkowski, Claudio Mazzoleni, Hans Moosmüller, *Michigan Technological University*

9AE AEROSOL EXPOSURE 2: POSTERS
EXHIBIT HALL AB

9AE.1 **Variability in Lung-Deposited Surface Area Within Particulate Matter ≤2.5 µm.** KIAN HUANG LEE, Agisilaos Kourmatzis, Troy J. Cross, *The University of Sydney*

9AE.2 **Experimental Deposition of Nicotine-Containing Aerosol in an Airway Cast Model.** CHIH-HSIANG CHIEN, Shipeng Kang, Matt Melvin, Weiling Li, Da-Ren Chen, *Altria Client Services LLC*

9AE.3 **Evaluation of the MiniWRAS Portable Wide-Range Aerosol Spectrometer.** Jonathan Berkuta, Stephanie Richards, Qiang Wu, Mackenzie Werderman, SINAN SOUSAN, *East Carolina University*

9AE.4 **Inter-Instrument Comparison of the DC-IV, APS, and MiniWRAS for Droplet and Aerosol Characterization of Ultra-Low-Volume Mosquito Control Sprays.** SINAN SOUSAN, Stephanie Richards, Qiang Wu, Krista Bryant, Abdulahi Opejin, Jonathan Berkuta, *East Carolina University*

9AE.5 **Laboratory Evaluation of the Sensirion SEN66, Piera IPS-7100, PurpleAir PIXEL and OPC-N3 Low-Cost Aerosol Sensors for Environmental and Occupational Exposure Monitoring.** MACKENZIE WERDERMAN, Stephanie Richards, Jonathan Berkuta, Sinan Sousan, *East Carolina University*

9AE.6 **Spatiotemporal Gap-Filling of NASA Deep Blue Satellite Aerosol Optical Depth over the Contiguous United States (CONUS) Using the UNet 3+ Architecture.** JEFFREY LEE, Sandra Marcela Loria Salazar, Heather Holmes, Andrew Sayer, *University of Oklahoma, School of Meteorology*

9AE.7 **Applications of Novel Gap-Filled Aerosol Optical Depth and Data Fusion Techniques for Enhanced Surface PM2.5 Estimates.** JEFFREY LEE, Sandra Marcela Loria Salazar, Heather Holmes, *University of Oklahoma, School of Meteorology*

9AE.8 **Observation-Constrained Modeling of Airborne Toxic Metals: Identifying Toxicity-Driven Hotspots in California.** JIE ZHANG, Ling Jin, Jia Xing, Bin Wang, *Lawrence Berkeley National Laboratory*

9AE.9 **Investigating Air Quality Impacts of Rocket Emissions at Cape Canaveral Using Low-Cost Sensors.** SPARTACUS STEPHENS, Marwa El-Sayed, Bethany Bothoff, Dori Stein, Sophia Beckwith, *Embry-Riddle Aeronautical University*

9AE.10 **Unpaved Road PM10 Concentrations and Vehicle-Induced Transient Plume Characteristics.** PATRICK O'SHAUGHNESSY, Drew Latta, James Kacer, David Cwiertny, *The University of Iowa*

9AE.11 **Evaluation of PM2.5 and PM10 Exposure at School Athletic Fields and Childcare Centers in Utah.** TRISTALEE MANGIN, Aaron Hanson, Alex Mass, Nancy Daher, Kerry Kelly, *University of Utah*

9AE.12 **The Impact of Seasonality on Cyanobacteria Harmful Algal Blooms on Lake Spray Aerosols.** GRACE A. YOUNG, Carlie Poworoznek, Andrew P. Ault, *University of Michigan*

9AE.13 **Indoor Versus Outdoor Aerosol Measurements in New Delhi and San Francisco.** DEVABHAKTUNI SRIKRISHNA, Sonam Devabhaktuni, Sathyaraj Devabhaktuni, *PatientKnowhow.com*

9AE.14 **A Sooty Environment: Quantifying Exposure to Black Carbon in Bogotá, Colombia.** RICARDO MORALES BETANCOURT, Karen Pinzón, Silvana Oliva Rodriguez, *Universidad de los Andes*

9AE.15 **Health Risk Assessment of Airborne Formaldehyde Exposure at Different Occupational Zones.** RUBAB REHMAN, Saiyada Shadiah Masood, Haider Khwaja, Aisha Sana, *Department of Chemistry, Jinnah University for Women*

9AE.16 **Linking Ambient and Personal PM2.5 Concentrations During a Pilot Study of Adolescents in the Chitwan Valley, Nepal.** ANDREW GRIESHOP, Jagriti Suneja, Stephanie Parsons, Krishna Shrestha, Ana Hernandez, Pamela Jagger, *North Carolina State University*

9AE.17 **Multi-Year Assessment of PM2.5 and CO in Personal and Cooking Area Air Samples from Rwanda.** CLARA EICHLER, Joseph Pedit, Taran S. Dang, Ipsita Das, Karin Yeatts, Pamela Jagger, Sudhanshu Handa, Leena Nylander-French, *University of North Carolina at Chapel Hill*

9AE.18 **Aerosol Pollution from Theatrical Fog and Haze Machines: Multi-Sensor PM2.5 Exposure Measurements for Public and Occupational Health.** JINA WILDE, *The University of Texas at San Antonio*

9AE.19 **Characterizing Ultrafine Particle Gradients Across Greater Boston with a Network of CPCs.** DAVID HAGAN, Abhay Vidwans, Emmie Le Roy, *QuantAQ, Inc.*

9AE.20 **Estimating Associations Between Residential Air Pollution and Environmental Exposure on Acute Health Using Low-Cost Sensing Techniques.** Danielle Wagner, Zachary Calhoun, Mark Wilson, Junfeng Zhang, David Carlson, Michael Bergin, LUCILLE GAGNON, *Duke University*

9AE.21 **Source-Specific Wildfire PM2.5 Transport and Potential Exposure from a Satellite-Constrained Lagrangian Framework.** YUE JIA, Ignacio Pisso, David Hyndman, *University of Texas at Dallas*

9AE.22 **Transfer of Toxic Heavy Metals to the Aerosol Phase from the Tijuana River via Inductively Coupled Mass Spectrometry.** TOBIE BLOOM, Kimberly Prather, *University of California San Diego*

9AE.23 **Revealing the Invisibles: Ultrafine Particles, Urban Mobility, and Environmental Justice in São Paulo.** RUBENS PEREIRA, Maria de Fatima Andrade, *University of São Paulo*

9CA CARBONACEOUS AEROSOLS 1: POSTERS
EXHIBIT HALL AB

9CA.1 **Integrated Observation Modelling System for Real-Time Urban Air Quality, Noise and Traffic Assessment (INKA Project).** KLEMEN KUNSTELJ, Matic Ivančič, Irena Ježek, Bálint Alföldy, Asta Gregorič, Martin Rigler, *Aerosol d.o.o.*

9CA.2 **Thermodenuder and Nd:YAG Laser Induced Charring of Biomass Burning Organic Aerosols.** JOHN ALLEN, Ryan Poland, Ariana Deegan, Muhammad Abdurrahman, Mike Lesiak, Mac A. Callaham, Michael Caraway, Thomas Carroll, Joseph O'Brien, Rawad Saleh, Andrew Metcalf, Amanda Frossard, Geoffrey Smith, *University of Georgia*

9CA.3 **Generation and Atmospheric Evolution of Light-Absorbing Carbonaceous Aerosol from Thermal Degradation of Plastic: From Deposited to Suspended Samples.** ASMA SOOFI, Sithumi Liyanage, Christian Escritt, Katrina Betz, Jace Barton, Connor Karlik, Elijah Schnitzler, *Oklahoma State University*

9CA.4 **Orthogonal Analytical Approaches for Elucidating Structure-Optical Property Relationships in Brown Carbon.** STEPHANIE GONZALEZ, Alexi Allen, Daniel B. Curtis, Paula K. Hudson, *California State University, Fullerton*

9CA.5 **The Role of Wood Burning for Heating on Urban Air Quality.** BENJAMIN A. NAULT, Nahin Ferdousi-Rokib, Salvatore Milletich, Ayreanna Pettijohn, Keelie N. Steiner, Kirsten Koehler, Benjamin Zaitchik, Peter F. DeCarlo, *Johns Hopkins University*

9CA.6 **A Method to Retrieve the Imaginary Refractive Index (k) of Brown Carbon Incorporating Measurements of Black Carbon and Particle Coating Thickness.** ELIZABETH WINTER, Dayton Maglich, John Allen, Ryan Poland, Muhammad Abdurrahman, Mike Lesiak, Mac A. Callaham, Michael Caraway, Thomas Carroll, Joseph O'Brien, Rawad Saleh, Andrew Metcalf, Geoffrey Smith, *University of Georgia*

9CA.7 **High Levels of Black and Brown Carbon Particulate Matter near a Wood Pellet and Biochar Production Facility in Southern Georgia.** ROBY GREENWALD, Nadia Alhadidi, Treva Gear, *Georgia State University*

9CA.8 **What Data from Airborne, Long Term Filter-Based, and New Real-Time Ground-Based Networks Can Tell Us About the Variability of Brown and Black Carbon Aerosol Absorption in Remote Regions of the United States.** KATE KWASNICK, Anna Robertson, Yingjie Shen, Elena Goodspeed, Roya Bahreini, Sean Raffuse, Ann M. Dillner, Armistead G. Russell, Nga Lee Ng, Shane Murphy, *University of Wyoming*

9CA.9 **Quantifying Source-Specific Optical Properties and Associated Uncertainties of Carbonaceous Aerosols from Biomass Burning in the Indo-Gangetic Plain, India.** ROSHAN KUMAR SINGH, Indra Mohan Nigam, Seema Prajapati, Shakiba Talebian, Antonio Mirante, Jason S. Olfert, Joel Corbin, Tarun Gupta, Ran Zhao, *University of Alberta, Canada and IIT Kanpur, India*

9CA.10 **Case Study: Influence of Rain on Land-Atmosphere Interactions Through Changes in Near-Surface Aerosol Composition and Physicochemical Properties.** ZEZHEN CHENG, Meghan C. Guagenti, Sining Niu, Ashfiqur Rahman, Matthew A. Marcus, Kyounglim Kang, Jing Li, Nurun Nahar Lata, Chongai Kuang, Gregory W. Vandergrift, Swarup China, *Pacific Northwest National Laboratory*

9CA.11 **Optical Properties Along the Nanochar Continuum.** TIMOTHY SIPKENS, Alireza Moallemi, Rym Mehri, Jalal Norooz Oliaee, Joel Corbin, *National Research Council Canada*

9CA.13 **Beyond $PM_{2.5}$: How Black Carbon Measurements Reveal Air Pollution Patterns and Sources.** JACK KODROS, David Lu, *Clarity Movement Co.*

9CA.14 **Comparison of Carbonaceous Aerosols and PAHs During Smoke-Free and Smoke-Impacted Periods in Northern Nevada.** VERA SAMBUROVA, Chiranjivi Bhattarai, Siying Lu, Andrey Khlystov, *Desert Research Institute*

9CA.17 **Plastic Rain in Florida.** JASON WATERS, Alison Bain, *Oregon State University*

9CA.18 **Preferential Association of Refractory Black Carbon with Biomass-Burning and Secondary Organic Aerosol: A Probe of Urban BC Mixing State.** JIHYE MOON, Hwajin Kim, *Seoul National University*

9CA.19 **Black Carbon Variability in Semi-Urban Traffic Environments of India: Insights from Real-Time Monsoon Monitoring.** ISHITA SHARAN SRIVASTAVA, Aditya Kumar Patra, Brandon E. Boor, Nusrat Jung, *Indian Institute of Technology Kharagpur*

9CA.20 **Year-Long Online Quantification and Source Apportionment of Brown Carbon in Atlanta, Georgia.** SOYOUN GWAK, Sohyeon Jeon, Matic Ivančič, Gašper Lavrič, Ruizhe Liu, Longkun He, Pengfei Liu, Asta Gregorič, Martin Rigler, Varun Yadav, Nga Lee Ng, *Georgia Institute of Technology*

9CA.21 **Effects of Atmospheric Aging on the Optical Properties of Biomass Burning Aerosols from Simulated Wildland Fires.** DAYTON MAGLICH, Elizabeth Winter, John Allen, Ryan Poland, Muhammad Abdurrahman, Michael Caraway, Thomas Carroll, Mike Lesiak, Mac A. Callaham, Joseph O'Brien, Andrew Metcalf, Rawad Saleh, Geoffrey Smith, *University of Georgia*

9CA.22 **Quantitatively Constraining Organic Aerosol Oxidation Pathways with Triple Oxygen Isotopes.** DANIEL CROCKER, Heejeong Kim, Emily Doi, Matthew Goss, Meredith Hastings, David Johnston, *Harvard University*

9CA.23 **What Do the Trends in AAE at the ASCENT Rubidoux Site Tell Us?** EMILY BERMUDEZ, Tiffany Hu, Erin Bowey, Yumeng Cui, Gino Pena, Bradley Ries, Armistead G. Russell, Ann M. Dillner, Sean Raffuse, Nga Lee Ng, Roya Bahreini, *University of California, Riverside*

9CA.24 **Predicting Functional Groups from TOF-ACSM Mass Spectra Using Elastic Net Models for ASCENT Sites.** NA MAO, Manjula Canagaratna, Satoshi Takahama, Nga Lee Ng, Seonsik Yun, Douglas A. Day, Jose-Luis Jimenez, Ruizhe Liu, Haroula D. Baliaka, Ryan Ward, Purushottam Kumar, Richard Flagan, Nicolas A. Buchenau, Cade Christensen, Jason Surratt, Ann M. Dillner, *University of California, Davis*

9CA.25 **Shifting Black Carbon Trends in the Los Angeles Basin.** TIFFANY HU, Erin Bowey, Yumeng Cui, Gino Pena, Bradley Ries, Haroula D. Baliaka, Ryan Ward, Sean Raffuse, Ann M. Dillner, Armistead G. Russell, John Seinfeld, Richard Flagan, Nga Lee Ng, Roya Bahreini, *University of California, Riverside*

9CA.26 **Molecular-Level Comparison of Ambient Biomass-Burning Organic Aerosol and Phenolic Oxidation Products Formed in Aqueous and Humid Gas-Phase Environments.** LINDSAY YEE, Antai Zhang, Qi Zhang, David Pando Gonzalez, Madeleine Sze In Ng, Nga Lee Ng, Michael Milazzo, Shan Gu, Robert Weber, Allen Goldstein, *University of California, Berkeley*

9CA.27 **Elemental Carbon (EC) Measurements in Addis Ababa: Comparing FTIR-EC with Optical Absorption Measurements in a Charcoal-Influenced Environment.** AHMAD JALIL, Sina Hasheminassab, Kyan Shlipak, Tesfaye Mamo, Araya Asfaw, Hossein Kazemian, Ann M. Dillner, *University of Northern British Columbia*

9CM CONTROL AND MITIGATION TECHNOLOGIES 1: POSTERS

EXHIBIT HALL AB

9CM.1 **Characterization of Patient Transport Isolation Devices for High Consequence Infectious Diseases.** JESSICA W. WARE, Joshua L. Santarpia, Ashley R. Ravnholdt, Elizabeth A. Klug, Vicki Herrera, Natasha R. Fields, *University of Nebraska Medical Center (UNMC)*

9CM.2 **Far-UVC for Airborne Pathogen Mitigation.** Steve Martin, Brian Renda, KELSEY QUINN, Richard Williamson, Darryl Angel, Jacob Swett, *Blueprint Biosecurity*

9CM.3 **A CFD-Based Reduced Order Modeling Framework for Rapid and Reliable Digital Twin Development to Evaluate Indoor Air Quality and Thermal Comfort in a Classroom.** HANG YI, Yu Feng, *Oklahoma State University*

9CM.4 **Assessment of Indoor Mold Burden in a Residential Setting Using a Multilayered Strategy: A Case Study.** JUDITH ARTHUR, Sripriya Nannu Shankar, Perminder Kaur, Jagjit Yadav, Aaron Grant, *University of Cincinnati*

9CM.5 **Optical-Spectrometry Characterization of Miniature Cyclones as Inertial Separators in a Condensed-Aerosol Recovery System.** Rafael Venancio Durand, Francesco Ghione Roasio, Roberto Guido, Stefano Zago, Emanuele Norata, PAOLO TRONVILLE, *Politecnico di Torino*

9CM.7 **Energy Recovery Ventilators: Are They a Source of Nanoparticulate Aerosol Indoors?** ONYINYE A. EZEIFEKA, Yevgen Nazarenko, *University of Cincinnati*

9CM.8 **Evaluating a Low-Cost Heated-Inlet PM_{10} Sensor Across Diverse Global Collocation Sites.** JACK KODROS, David Lu, *Clarity Movement Co.*

9CM.9 **Leaf Surfaces as Aerosol Sinks: Dry Deposition Velocities for Common Urban Tree Species in Los Angeles.** JACKSON RYAN, Thaomy Vo, William Berelson, Devan Roper, Celia Faiola, *University of California, Irvine*

9CM.10 **Effects of Environmental Factors on Far-UVC Inactivation of Virus-Laden Droplets.** Xuefang Jing, JIN PAN, *The University of Iowa*

9CM.11 **Impact of Air Purifiers on Particulate Matter and the Household Dust-Associated Microbiome: A Pilot Study.** CLARA EICHLER, Megan Lott, Sherlynette Pérez Castro, Emily Nortmann, David Singleton, Thomas Clerkin, Zoe Schubert, Rylee Beaver, Sarah Haines, Claudia Gunsch, Rachel Noble, Glenn Morrison, Barbara Turpin, *University of North Carolina at Chapel Hill*

9CM.12 **Pressure Drop in 2D Nanofiber Filters: Dimensionless Design for Size-Independent Domains.** TAEHYUN CHOI, Jae Hee Jung, Ki Joon Heo, *Chonnam National University*

9CM.13 **Real-Time Detection of Narcotics and Explosives Using Single-Particle Mass Spectrometry.** Johannes Passig, HASEEB HAKKIM, Aleksandrs Kalamasnikovs, Petra Hehet, Guanzhong Wang, Heinrich Ruser, Michael Pütz, Martin Seipenbusch, Simone Vinati, Karsten Wegner, Thorsten Streibel, Robert Irsig, Sven Ehlert, Andreas Walte, Ralf Zimmermann, *University of Rostock*

9CM.14 **Evaluating Upper-Room UVGI in Shared Patient Wards Using Eulerian-Multiphase CFD Model.** JONGIL BANG, Donghyun Rim, *Sejong University*

9CM.15 **Efficiency of Emissions Capture Systems at Removing Light and Heavy Hazardous Air Pollutants for Maritime Emissions Sources.** JOULE PARKER, Kyah Gracia, David R. Cocker, Thomas Eckel, *University of California, Riverside*

9CM.16 **Influence of Lighting Conditions on Aerosol Formation from Bleach and Cleaning Product Vapors.** ESTHER OZURUOHA, Sofie Schwink, Ethan Richter, Marina Vance, *University of Colorado Boulder*

9CM.17 **Particle Dendrite Formation on a Single Fibre in the Slip-Flow Regime: Pressure Drop Modelling in the Diffusion-Dominant Range.** TAEHYUN CHOI, Ki Joon Heo, Jae Hee Jung, *Chonnam National University*

9CM.18 **Dust Resuspension of the Collected Particles via Electrodynamic Screen.** Kisoo Jeon, Chaeyeon Jo, Kee-Jung Hong, Gunhee Lee, BANGWOO HAN, *Korea Institute of Machinery & Materials*

9CM.19 **Effect of Glycol Vapors Exposure on Filtration Performance of Air Filtration Media.** BRIGHT AMPONSEM, Sudheer Salana, Pulanthitan Pulanthitan, Ian Chen, Mohammad Washeem, Chang-Yu Wu, *University of Miami*

9CM.20 **Effects of Elevated Concentrations of Ammonia and Hydrogen Sulfide on Non-Thermal Plasma Inactivation of Airborne Viruses.** EMILY HONG, Zhenyu Ma, Herek L. Clack, *University of Michigan*

9CM.21 **A Generalizable Size-Resolved Framework for Predicting How HVAC Filter Aging Modulates Excess Lifetime Cancer Risk from Outdoor Ultrafine Particles.** CHUNXU HUANG, Brandon E. Boor, *Purdue University*

9CM.22 **Multiphysics Effects of Moisture on Electrostatically Charged Aerosol Filters.** Amit Kumar, HOOMAN V. TAFRESHI, Behnam Pourdeyhimi, *North Carolina State University*

9CM.23 **Realistic Simulation of Electrostatically Charged Filters on Micro- and Macro-Scales.** HOOMAN V. TAFRESHI, Amit Kumar, Behnam Pourdeyhimi, *North Carolina State University*

9CM.24 **CFD Simulation of Simultaneous Gas and Aerosol Filtration from Wildfire Smoke.** Mostafa Jafari Gildeh, HOOMAN V. TAFRESHI, *North Carolina State University*

9CM.25 **Numerical Modeling of Toluene Adsorption in Bidisperse Packed Beds of Granular Activated Carbon.** Mostafa Jafari Gildeh, HOOMAN V. TAFRESHI, *North Carolina State University*

9CO COMBUSTION 2: POSTERS

EXHIBIT HALL AB

9CO.1 **PFAS Emissions from Thermally Stressed Textiles.** BRITTANY STINGER, *National Institute of Standards and Technology*

9CO.2 **Generating and Characterizing Smoke Aerosol for HEPA Filter Media Loading.** DRAKE LARSON, Jaime Gibson, Spencer Phillips, *Mississippi State University*

9CO.3 **Quantifying and Minimizing the Environmental Impact of Agricultural Plastic Mulch Film Burning.** AMIR REZA SHARAFUDDIN, Courtni Spencer, Kazi Habib, Sungyoon Jung, Yang Wang, *University of Miami*

9CO.4 **Effects of Combustion Conditions on the Emissions of Reactive Nitrogen in Simulated Wildland Fires.** MUHAMMAD ABDURRAHMAN, Michael Caraway, Thomas Carroll, Nicholas Kusumo, Kruthika Kumar, Anita Anosike, Ariana Deegan, Vignesh Vasudevan Geetha, Shanhu Lee, Ed Fortner, Mac A. Callaham, Joseph O'Brien, Amanda Frossard, Rawad Saleh, *University of Georgia*

9CO.5 **Towards Radiative Energy-Based Emission Estimates for Wildland Fires.** L.-W. ANTONY CHEN, Olusanya Onamuti, Patrick Martens, *University of Nevada, Las Vegas*

9CO.6 **The Effect of Variable Combustion Conditions in Prescribed Fires on Emission Factors of Smoke Constituents.** MICHAEL CARAWAY, Muhammad Abdurrahman, Nicholas Kusumo, Thomas Carroll, Kruthika Kumar, Anita Anosike, Ryan Poland, Mike Lesiak, Mac A. Callaham, Geoffrey Smith, Joseph O'Brien, Rawad Saleh, *University of Georgia*

9CO.7 **Height-Resolved Composition, Mixing State, Morphology, and Size Distributions in Prescribed-Fire Flames and Near-Field Plumes.** ALLA ZELENYUK, Schuyler Lockwood, Amna Ijaz, Zezhen Cheng, Swarup China, David Weise, Joey Chong, Stephen Baker, Emily Lincoln, Shawn Urbanski, Georgios Karavalakis, Zisimos Toumasatos, Tracy Baker, Ashley Bradley, Kendall Hughey, Timothy Johnson, David Lignell, *Pacific Northwest National Laboratory*

9CO.8 **Prospective Assessment of Diesel I/SVOC Emissions Under the China VII-Oriented Technology Route.** XIAO ZHANG, Shaojun Zhang, *Tsinghua University*

9CO.9 **Equivalent Particle Sizes of Soot Aggregates Accounting for Primary Particle Growth: Implications for Aerosol Dynamics Modeling.** Steven Rogak, Sung Hoon Park, NISHAN SAPKOTA, *University of British Columbia*

9CO.10 **Characterization and Toxicity Assessment of Particulate Matter Emitted from a Gas Turbine Combustor Operating on Conventional and Alternative Liquid Fuels.** MA CRISTINE FAYE DENNA, Ishan Gupta, Seongbin Jo, Minhan Park, Maksim Kvetny, Benjamin Emerson, Nga Lee Ng, Rodney J. Weber, Eladio Knipping, *Georgia Insitute of Technology*

9HR HEALTH RELATED AEROSOLS 1: POSTERS

EXHIBIT HALL AB

9HR.1 **Age-Resolved Respiratory Deposition of Secondary Organic Aerosols from Coupled Indoor-Outdoor VOC Precursors and Trimethylamine.** HYEON-JU OH, Jaewon Seo, Jihye Moon, Hwajin Kim, *Seoul National University*

9HR.2 **Characterizing Wood Dust Particle Size Distribution and Respirable Dust by Sawmill Processes and Wood Types.** DONGWON KIM, Sungwon Choi, Kyung Sook Woo, *Institute of Occupation and Environment, KCOMWEL*

9HR.3 **Quantifying Cellular Impacts of Aerosol Exposure Using Automated Live-Cell Fluorescence Imaging.** Akhil Kota, Karin Ardon-Dryer, Alexandria Johnson, Lauryn Fox, GOURI PRABHAKAR, *Purdue University*

9HR.4 **Daytime and Nighttime Atmospheric Oxidation of Cyanobacterial Aerosols: Impacts on Oxidative Potential and Chemical Composition.** ANTHONY CHUNG, Myoseon Jang, *University of Florida*

9HR.5 **Chemically Resolved Respiratory Deposition of Urban Ultrafine Particles Characterized by Number Concentration.** JINGHAO ZHAI, Yaling Zeng, Xin Yang, *The University of Chicago*

9HR.6 **Acetylation Drives Ketene Formation in Cannabinoid Vape Aerosols.** Rhianna Evans, NOEL CORLEY, Haylee Hunsaker, Sascha Nicklisch, Allison Ehrlich, Tran Nguyen, *University of California, Davis*

9HR.7 **Coil Material and Nicotine Salt Formulation Drive Toxic Metal Leaching and Aerosolization in Open-System Electronic Nicotine Delivery Systems (ENDS).** CHARBEL HARB, Karmann Riter, Norman Urbanek, Jacob Hilldrup, Ethan Sill, Jonathan Thornburg, Felicia L. Shelton, Yuan-wei Nei, Anjali Verma, Michael Morschauser, Lee Williamson, *RTI International*

9HR.8 **Spatial Variability in PM2.5 Oxidative Potential Across the Global Scale.** YUHUI ZHAI, P. S. Ganesh Subramanian, Sudheer Salana, Christopher Oxford, Xuan Liu, Yuxuan Ren, Randall Martin, Vishal Verma, *University of Illinois Urbana-Champaign*

9HR.9 **Exploring the Role of Secondary Organic Aerosol in In-vitro Exposures of Cell Lung Models.** CHRISTINA VASILAKOPOULOU, Ambre Delater, Benjamin Simonneau, Thalles de Freitas Castro, Mathieu Cazaunau, Edouard Pangui, Damien Lopez, Prodip Acharja, Christopher Ferland, Lisa Guth, Bénédicte Picquet-Varrault, Guillaume Suarez, Sophie Lanone, Patrice Coll, *Université Paris Cité and Univ Paris Est Creteil, CNRS, LISA*

9HR.10 **Physico-Chemical and Oxidative Properties of Particulate Matter Emitted from the Combustion of Conventional and Sustainable Aviation Fuels.** ANSON REGI, Connor Malley, Sungho Hwang, Tonghun Lee, Vishal Verma, *University of Illinois Urbana-Champaign*

9HR.11 **Investigation of Drug Delivery Rate and Droplet Size Distribution of Common Medical Nebulizers.** Taewon Han, Antonio Baratta, Michael Falvo, Daniel P. Wilhite, GEDIMINAS MAINELIS, *Rutgers, The State University of New Jersey*

9HR.12 **Influence of Carrier Gas Composition and Dynamic Airway Motion on Aerosol Transport and Deposition in Human Respiratory Tract.** HANG YI, Yu Feng, *Oklahoma State University*

9HR.13 **Impact of Sinonasal Anatomy and Intranasal Delivery Conditions on Target Site Deposition in Chronic Rhinosinusitis.** DENNIS FRANK-ITO, *Duke University*

9HR.14 **Ambient PM2.5-Derived Water-Soluble Organic Mixtures Disrupt Albumin-Amyloid-β Binding Through Selective Molecular Interference.** YALING ZENG, Xin Yang, *Southern University of Science and Technology*

9HR.15 **Assessment of BTEX Pollution and Associated Health Risks from Crop Residue Burning in Agrarian Regions: Trends, Sources, and Ozone Formation Potential.** BHUPENDRA SINGH, *Central University of Haryana, India*

9HR.16 **Lifespan Studies on Radionuclides in Beagle Dogs Conducted by the Lovelace Organization: 1960-2010.** ROGER MCCLELLAN, *Independent Advisor, Toxicology and Risk Analysis*

9HR.17 **Metal Solubility, Speciation, and Oxidative Potential of Volcanic and Volcanically Influenced Aerosols from Mt Etna and Catania, Italy.** MUSHTARI SAIDIKOVA, Alexander Zherebker, Giuseppe Salerno, Gaetano Giudice, Bizhou Zhou, Alexandra Turchyn, Anja Schmidt, Clive Oppenheimer, Chiara Giorio, *University of Cambridge*

9HR.18 **PAH Content Redirects the Type of Pulmonary Immune Response to Inhaled Carbonaceous Particles.** KYUHONG LEE, *Korea Institute of Toxicology*

9HR.19 **Simulated Stakeholders, Cross-Team Expert Cohorts, and Productive Integration Conflict: A Replicable Design for a Semester-Long Air Quality Engineering Group Project.** SHANNON CAPPS, *Drexel University*

9IM INSTRUMENTATION AND METHODS 7: POSTERS

EXHIBIT HALL AB

9IM.1 **Bidimensional Charge Distribution of Spherical and Aggregate Nanoparticles in a Unipolar Diffusion Charger.** NISHAN SAPKOTA, Rym Mehri, Joel Corbin, Steven Rogak, Timothy Sipkens, *University of British Columbia*

9IM.2 **First Results from the AFN Measurements During the VENUSIAN Mission.** DARREL BAUMGARDNER, Christopher Carr, Ted Fisher, Snigdha Nellutla, *ENVEA, Boulder, Colorado*

9IM.3 **From OC/EC Equivalence to Real-Time Carbonaceous Aerosol Speciation: Performance of the New TCA09 Analyzer in a One-Year ASCENT Field Campaign in Atlanta, Georgia.** MARTIN RIGLER, Matic Ivančič, Sohyeon Jeon, Ruizhe Liu, Gašper Lavrič, Bálint Alföldy, Irena Ježek Brecelj, Varun Yadav, Nga Lee Ng, Asta Gregorič, *Aerosol d.o.o.*

9IM.6 **Physics-Guided Electrospray Generation of Monodisperse Aerosols for Particle Counter Calibration.** YEHYA AUSSI, *Southwest Research Institute*

9IM.7 **Resolving Size Discrepancies in Sub-40nm Nanoparticles Using ES-SMPS, DLS, and Deep Learning Assisted TEM.** ALEXANDER MENK, Christopher Bonino, *Particle Measuring Systems*

9IM.8 **Development of a Compact, High-Performance, Multi-Pass Photoacoustic Aerosol Absorption Spectrometer (PAS) Capable of Measurements from Blue to Infrared Wavelengths.** MAX APPELBAUM, Matthew Burkhart, Owen Cruikshank, Anna Robertson, Kaitlin Schulist, Bryan Rainwater, Brian Annis, Clint Middlemist, Braden Stump, Shane Murphy, *University of Wyoming*

9IM.9 **Novel Optical Instruments for Size-Resolved Aerosol and Cloud Particle Measurement.** MATTHEW FREER, Matthew Berg, Benjamin Swanson, *CloudSci*

9IM.10 **Seamless 1–1000 Nm Size Distributions of Fine Particles by Combining PSM 2.0 and SMPS.** AKI PAJUNOJA, Joonas Vanhanen, Dagen Hughes, Jyri Mikkilä, *ENVEA*

9IM.11 **Sensitivity of Photoacoustic and Photothermal Spectroscopy for Probing Properties Besides Absorption - Influence of Excitation Frequency in Single Particle Studies.** FELIX STOLLBERGER, Alexander Bergmann, *Graz University of Technology*

9IM.12 **Examining the Concentration-Dependent Counting Efficiency of the Community Condensation Particle Counter (cCPC).** ABHAY VIDWANS, David Hagan, *QuantAQ, Inc.*

9IM.13 **In Situ Single Particle Measurements of Submicron Aerosol Particle Phase State.** VINCENT KIPTER, Angel Gibbons, Paul Ohno, *Auburn University*

9IM.14 **Constraining Vertical Cloud Condensation Nuclei Concentrations Using Single-Particle Chemical Composition During the TRACER Campaign.** JING LI, Nurun Nahar Lata, Zezhen Cheng, Ashfiqur Rahman, Sining Niu, Darielle Dexheimer, Matthew A. Marcus, Fan Mei, Allison Steiner, Jian Wang, Swarup China, *Pacific Northwest National Laboratory*

9IM.15 **A Comparative Study on GC-MS and GCxGC-MS of Maritime Port Collected Samples.** JOSHUA SCHEEL, Thomas Eckel, David R. Cocker, Kyah Gracia, *University of California, Riverside*

9IM.16 **A Redesigned Variable-Orifice Inlet for Constant-Pressure Stratospheric Aerosol Sampling Aboard the NASA WB-57.** TEGAN BROWN, Samuel Taylor, Ming Lyu, Charles Brock, Daniel Murphy, *CIRES/NOAA Chemical Sciences Laboratory*

9IM.17 **Low-Cost Sensor Measurement Dependency on Wind-Speed and Sensor Orientation.** SREEKESH KOOKKAL, Haripriya Mahapatra, Suresh Dhaniyala, *Clarkson University*

9IM.18 **A Thermal Evolution-Based OC-EC-IN-ON Analyzer for Simultaneous Determination of Organic Carbon, Elemental Carbon, Inorganic Nitrogen, and Organic Nitrogen in Aerosols.** JIANZHEN YU, Cong Cao, Yee Ka Wong, *Hong Kong University of Science & Technology*

9IM.19 **Wind Tunnel and Numerical Investigation of a Nested Inlet for Stratospheric Aerosol Sampling.** NAGARAJAN RADHAKRISHNAN, Charles Brock, Suresh Dhaniyala, *Clarkson University*

9IM.20 **Aerosol Phase Transition Detection Through Temperature-Controlled Bipolar Charging and Ion Attachment Analysis.** SANGHEE HAN, Sunandan Mahant, Markus Petters, *University of California, Riverside*

9IM.21 **A Stabilization Approach for SML Characterization Providing Insights Into Marine-Atmosphere Microbial Connectivity.** OR ARGAMAN MEIROVICH, Ariel C. Tastassa, Jonathan Blaustein, Yael Dubowski, Naama Lang-Yona, *Technion - Israel Institute of Technology*

9IM.22 **Feasibility of Raman Analysis for 3D Printer Nano- and Microplastic Aerosols Emissions.** SLATER PAYNE, Justin Morrow, Alyssa Yerkeson, Jun Wang, *University of Cincinnati*

9NP NANOPARTICLES AND MATERIALS SYNTHESIS 1: POSTERS

EXHIBIT HALL AB

9NP.1 **A Stochastic Comparative Analysis of Aerosol Synthesis and Co-Precipitation for High-Nickel Cathode Materials: R&D Targets and Scaling Pathways.** OMAR ALLAHHAM, Adam Boies, *Stanford University ANEE Lab*

9NP.2 **Laser-Induced Incandescence for In-Situ Carbon Nanotube Reactor Diagnostics.** MICHAEL LARSON, Adam Boies, *Stanford University*

9NP.3 **Optical Properties of Silicate Aerosols in Extra-Solar Planets.** LIAM LEONARD, Hannah Wakeford, Jonathan P. Reid, Adam Boies, *University of Bristol*

9NP.5 **In-Situ Reactive TEM Study of the Oxidation Kinetics of Metal Nanoparticles.** Kerin Shi, MICHAEL ZACHARIAH, *University of California, Riverside*

9NP.6 **Facile One Step Aerosol Synthesis of Sulfur Doped Carbon Dots via Flame Spray Pyrolysis: A Pathway to Continuous and Scalable Synthesis Route.** MUHAMMAD TANVEER, Tuukka Kokkola, Kinga Skalska, Olli Sippula, Anna Lähde, *University of Eastern Finland, Kuopio, Finland*

9NP.7 **Autonomous Spark Generated Catalyst Aerosols.** MADELEINE SWINT, Hao Zhang, Arthur Sloan, Adam Boies, *Stanford University*

9NP.8 **In Situ Optimization of Crystalline Magnesium Nanoparticles for Plasmonic Applications.** CHEYENNE HALVERSON, Adam Boies, *Stanford University*

9SA SOURCE APPORTIONMENT 3: POSTERS

EXHIBIT HALL AB

9SA.1 **Impact of Shipping Emission Regulations on Coastal and Marine Atmospheric Vanadium - Insights from Long-Term IMPROVE Monitoring Sites and NASA ACTIVATE Cloud Observations.** FRANCESCA GALLO, Armin Sorooshian, Luke Ziemba, Grace Betito, Andrea F. Corral, Ewan Crosbie, Eva-Lou Edwards, Miguel Hilario, Simon Kirschler, Claire Robinson, Michael Shook, Kenneth Thornhill, Christiane Voigt, Edward Winstead, Kira Zeider, Richard Moore, *NASA Langley*

9SA.3 **Eastern Coachella Valley (ECV) Dust Characterization Study: Trends (2022-2026) in PM10 Chemical Composition and Sources .** JOSEPH SALAZAR, Yumeng Cui, Julia Montoya-Aguilera, Christopher Lim, Provat Saha, Zihan Zhu, Steven Boddeker, Freyja Berg Lopez, Laura Saucedo, Cynthia Berg, Angela Haar, James Rothchild, Eric Holden, Mohammad Sowlat, Payam Pakbin, Stephen Dutz, Jason Low, *South Coast Air Quality Management District*

9SA.4 **Spatiotemporal Analysis of Ambient Chiral VOC Concentration and Composition in Los Angeles.** MEGAN HARMON, Jackson Ryan, Thaomy Vo, William Berelson, Celia Faiola, *University of California, Irvine*

9SA.5 **A Low-Cost Approach for Black Carbon Source Apportionment in the Global South.** RAFAEL BRAGA GOMES, Maisha Agarwal, Faith Chiarappa, Annika Khurana, Tracy Lu, Andrew Song, Prithviraj Vijayaraj, Albert Presto, *Carnegie Mellon University*

9SA.6 **PM2.5 Sources and Regional Transport in Thailand and Lao PDR.** SUJUNG HAN, Taeyeon Kim, Yein Kim, Jang-Pyo Cheong, Kiyoung Lee, Seung-Muk Yi, *Seoul National University, Seoul, Korea*

9SA.7 **Causal Discovery for PM2.5 Source Attribution in African Metropolitan Airsheds.** PAA SEY, Paulina Jaramillo, Albert Presto, *Carnegie Mellon University*

9SA.8 **Source Apportionment and Characterization of Urban Emissions Using Fixed and Mobile Measurements near Airport and Rail Corridors in Los Angeles.** KYLE CAULSON, Zhuoying Lin, Alex Chang, Shenglun Wu, Morteza Amini, Suzanne E. Paulson, *University of California, Los Angeles*

9SA.9 **Real-World Emission Dynamics and Compositional Identification of Airborne Tire and Road Wear Particles.** SALAHUDDIN SETU, Hosein Foroutan, *Virginia Tech*

9SA.12 **Dicyclohexylamine: A Potential Non-Exhaust Traffic Emission Marker.** BERENICE ROJAS, Véronique Perraud, Kiana Boyd, B. Sage Lauper-Cook, Adam Thomas, Lisa Wingen, Madeline Cooke, Manabu Shiraiwa, Barbara Finlayson-Pitts, James Smith, *University of California, Irvine*

9SA.13 **Investigating the Impact of Canadian Wildfire Plumes on Aerosol Levels and Properties in Atlanta in Summer 2025.** SOPHIA HOCH, Sohyeon Jeon, Ruizhe Liu, David Pando Gonzalez, Yutong Liang, Nga Lee Ng, *Georgia Institute of Technology*

9SA.14 **Source-Specific Radioactivity and Oxidative Potential of Urban PM2.5.** JIEUN PARK, Taeyeon Kim, Hyejin Shin, Minsoo Kang, Sung Hoon Jeong, Donghyun Rim, Philip K. Hopke, Seung-Muk Yi, Petros Koutrakis, *Ewha Womans University*

9SA.15 **Machine Learning-Based Estimation of PM2.5 Source Contributions Derived from Positive Matrix Factorization (PMF).** TAEYEON KIM, Sujung Han, Hyejin Shin, Kwon Ho Jeon, Seung-Muk Yi, *Seoul National University*

9SA.16 **Investigating NOx Variability in the San Joaquin Valley Using Long-Term Stationary Monitoring Data.** GEORGES SALIBA, Morteza Amini, Angelica Carrazco, Emily Yang, Jason Schroeder, Majiong Jiang, Michael FitzGibbon, *Research Division, California Air Resources Board*

9SA.17 **Source Apportionment of Organic Aerosols and Trace Elements in California's Inland Empire: A 15-Month Positive Matrix Factorization Study at Rubidoux.** BRADLEY RIES, Gino Pena, Tiffany Hu, Erin Bowey, Yumeng Cui, Sean Raffuse, Ann M. Dillner, Armistead G. Russell, Nga Lee Ng, Roya Bahreini, *University of California, Riverside*

9SA.18 **Composition and Source Apportionment of PM2.5 Aerosols at Joshua Tree National Park ASCENT Site: A Year-Long Perspective.** GINO PENA, Bradley Ries, Tiffany Hu, Erin Bowey, Eleanor Bentley, Sean Raffuse, Ann M. Dillner, Armistead G. Russell, Nga Lee Ng, Lelia Hawkins, Roya Bahreini, *University of California, Riverside*

9SA.19 **Efficient Error-Weighted Positive Matrix Factorization for Large Atmospheric Mass Spectrometry Datasets.** SEAN YOUN, Daven Henze, Pedro Campuzano-Jost, Donna Sueper, Luping Su, Manjula Canagaratna, Harald Stark, Douglas Worsnop, Jose-Luis Jimenez, *Univ. of Colorado, Boulder & Aerodyne Research Inc.*

9WF THE BREATH OF FIRE: AEROSOL, HEALTH, AND PROTECTION IN THE WILDLAND-URBAN INTERFACE (WUI) 4: POSTERS
EXHIBIT HALL AB

9WF.1 **Ideas for Predicting Firebrand-Induced Spot Fires at the Point-of-Need: Insights from Spatter Transport in Metal Additive Manufacturing.** NICHOLAS O'BRIEN, Satbir Singh, Jack Beuth, *Carnegie Mellon University*

9WF.2 **Characterization of Particulate Matter and Heavy Metal Emissions During Electric Vehicle Fires.** QIAN ZHANG, David Kalafut, Yin Yee (Cynthia) Choo, Patrick Chepaitis, Fatima Ahmad, Taryn Waddey, Richard Kesler, Gavin Horn, Adam Barowy, Mark Wilson, *UL Research Institutes*

9WF.3 **Chemical Characterization of Gas- and Particle-Phase Emissions from Full-Scale Electric Vehicle Fires.** YIN YEE (CYNTHIA) CHOO, David Kalafut, Qian Zhang, Patrick Chepaitis, Taryn Waddey, Fatima Ahmad, Richard Kesler, Gavin Horn, Adam Barowy, Mark Wilson, *UL Research Institutes*

9WF.4 **Mechanistic Understanding of Differential Metal Enrichment of Airborne Particles Versus Surface Dust from the 2025 Los Angeles Fires.** QIYUE NIE, Yuan Yao, Jing Li, Haoxuan Chen, Muchuan Niu, Qiao Yu, Michael Jerrett, Yifang Zhu, *University of California, Los Angeles*

9WF.5 **Developing and Evaluating a Wildfire Smoke Mitigation Plan to Protect Indoor Air Quality on a University Campus.** FIONA HOPEWELL, Tristalee Mangin, Kerry Kelly, Sean Nielson, *University of Utah*

9WF.7 **Improved Representation of Wildfire Emitted Aerosol Precursors in the CAMx Model.** KATIE TUITE, Jeremiah Johnson, Pradeepa Vennam, Haofan Li, Greg Yarwood, *Ramboll*

9WF.8 **Laboratory Investigation of the Physicochemical Properties of Aerosols from Wildland-Urban Interface Fires.** XUANYU HAN, Shang Liu, *Northeastern University*

9WF.9 **The Effects of Fuel-Bed Characteristics and Environmental Conditions in Wildland Fires on the Emissions of Heavy Metals.** THOMAS CARROLL, Muhammad Abdurrahman, Michael Caraway, Nicholas Kusumo, Kruthika Kumar, Anita Anosike, Mike Lesiak, Mac A. Callaham, Joseph O'Brien, Kathryn Zimmerman, Rawad Saleh, *University of Georgia*

9WF.11 **Emission of VOCs from Painted Surfaces Exposed to Simulated Wildland-Urban Interface Fires and Evaluation of Cleaning Methods.** JANA BUTMAN, Dustin Poppendieck, Michael Link, *National Institute of Standards and Technology*

9WF.12 **Photochemical Aging Effects on Environmentally Persistent Free Radicals and the Oxidative Potential of Plastic Combustion Particulate Matter.** BRADLEY H. ISENOR, Katerina Sajeniouk, Hongru Shen, Jonathan Abbatt, Arthur W. H. Chan, *University of Toronto*

9WF.13 **The Emissions of a Burning Modern Home: An In-Depth Look at Emission Profiles from Southern California's Most Common Building Materials When Simulating an Urban Fire.** HOVANNESS DINGILIAN, Kainoa Koffman, Thomas Eckel, David R. Cocker, *University of California, Riverside*

9WF.14 **RADSENSE: A Machine Learning-Based Smoke Forecast System.** ZONGRUN LI, Eric Wendt, Shantanu Jathar, Jesse Burkhardt, Ander Wilson, Christian L'Orange, John Volckens, *Colorado State University*

9WF.15 **Impact of Fuel Type and Combustion Phase on the Optical Properties of Wildfire Particulate Matter.** Mahsa Zarei, Alireza Moallemi, Timothy Sipkens, Joel Corbin, JASON S. OLFERT, BBCan Team, *Department of Mechanical Engineering, University of Alberta*

9WF.16 **Indoor PM Instrument Performance During Surrogate Wildland-Urban Interface Fire Smoke Events.** NATHAN LIMA, Aika Davis, Michael Link, Thomas Cleary, Ryan Falkenstein-Smith, Rileigh Robertson, Steven Emmerich, Dustin Poppendieck, *National Institute of Standards and Technology*

9WF.17 **Size-Resolved Filtration Efficiency of Wildfire Smoke Surrogate Aerosols by HVAC Filters in a Full-Scale Duct Test Rig.** XIAOSU DING, Jalil Mokhtarian Mobarakeh, Benjamin Kokaly, Caleb Rismiller, Meghan Megowan, Parichehr Salimifard, *Oregon State University*

9WF.18 **Pushing the Limits of PM2.5 Removal by the Corsi-Rosenthal Box: From Necessity-Driven Filtration Materials to Extreme Clean Air Delivery Rates.** ANTONIO BARATTA, Taewon Han, Gediminas Mainelis, *Rutgers, The State University of New Jersey*

9WF.19 **Characterization of Gaseous and Particulate Speciated Organics Emitted from Laboratory-Scale Combustion of Structural Materials.** MICHAEL MILAZZO, Bryce Bathras, Ting Wang, Mitchell Huffman, Robert Weber, Lindsay Yee, Nathan Kreisberg, Michael Gollner, Allen Goldstein, *University of California, Berkeley*

9WF.20 **Aerosol Optical Properties of Wildfire Smoke Transported to the Southern Great Plains of the U.S.** HAYDEN WEBB, Sandra Marcela Loria Salazar, Connor Flynn, Jens Redemann, Hans Moosmüller, Kyle Eskew, *University of Oklahoma, School of Meteorology*

9WF.21 **Size-Resolved Fine and Ultrafine Particle in an Older Educational Buildings: Effects of HVAC Operation and Meteorology.** JIANING BAO, Nigel Kaye, Ehsan Mousavi, Andrew Metcalf, *Clemson University*

9WF.22 **Elevated Particulate Chloride from Infiltrated Wildland-Urban Interface Fire Smoke in Indoor PM_1.** BENJAMIN WERDEN, Michael Link, Nathan Lima, Benjamin A. Nault, Aika Davis, Thomas Cleary, Ryan Falkenstein-Smith, Rileigh Robertson, Dustin Poppendieck, Peter F. DeCarlo, *Johns Hopkins University*

9WF.23 **Population Exposure and Health Impacts of Prescribed Burns in California.** RASHMI RAJPUT, Tong Zhang, Mohammad Astaneh, Kelley Barsanti, Sean Raffuse, Wenfu Tang, Michael Kleeman, *University of California, Davis*

9WF.24 **Machine-Learning Framework for Wildfire Plume Injection Height.** MOHAMMAD ASTANEH, Rashmi Rajput, Tong Zhang, Kelley Barsanti, Wenfu Tang, Sean Raffuse, Michael Kleeman, *University of California, Davis*

9WF.25 **Oxidant Generation by Chamber-Aged Smoke Particles Sampled Directly Into Simulated Lung Fluid.** EVELYN YANDLE, David De Haan, *University of San Diego*

9WF.27 **Wildfire Smoke-Induced Charge Degradation in Residential Electret HVAC Filters.** SHIBO WANG, Qisheng Ou, Xiaoliang Wang, Zhengyuan Pan, Dongryul Park, Keonwang Lee, Hyungho Park, Francisco Romay, David Y. H. Pui, *University of Minnesota*

9WF.28 **Integrated Hygroscopic Growth and Bounce Fraction Measurements of Smoke Aerosol Before and After Oxidative Aging.** SLATER RUBIO-WILLIAMS, Stella Osman, Samantha Ortiz-Naranjo, Gavin Emerzian, David De Haan, *University of San Diego*

9WF.29 **Assessing Indoor Versus Outdoor PM2.5 Concentrations During the 2025 Los Angeles Fires Using the PurpleAir Sensor Network.** YAN LU, Xinyi Zhang, Soroush Neyestani, Ling Jin, Lu Zhang, Rima Habre, Jiachen Zhang, *University of Southern California*

9WF.30 **Indoor Exposure to Smoke-Derived PM2.5 During Prescribed Burning Events.** SHABNA VALIYAKATH, John Bowman, Satya Patra, *University of Alabama*

9WF.32 **Total Fluorine and Chlorine in Particulate Emissions from Battery Fires with Varied Ignition Sources.** AUDREY TOMBAUGH, Ryan Falkenstein-Smith, Aika Davis, Thomas Cleary, *National Institute of Standards and Technology*

9WF.33 **Urban Wildfires Generate Pervasive and Persistent Metal Aerosol Pollution.** DOUGLAS HAMILTON, Haroula D. Baliaka, Dante Capone, Peter Morton, Nga Lee Ng, Elisa Bergas-Masso, Rasmus Swalethorp, Richard Flagan, Julie Dinasquet, *North Carolina State University*

9WF.34 **Ozone Aging Enhances the Hygroscopicity and Cloud-Forming Potential of Wildfire-Derived Phenolic Acid Aerosols.** Minh Tran, Emily Nortmann, Rayhanna Harper, Alexander Georgiev, DENISIA POPOLAN-VAIDA, *University of Central Florida*

9WF.35 Backward Lagrangian Modeling of WUI Fires: Evaluating PM Exposure and Emission Gaps in the LA Basin. ALOK KUMAR THAKUR, Kevin Ridgway, Ky Tanner, Colette Schissel, David T. Allen, Christian L'Orange, Shantanu Jathar, *Colorado State University*

9WF.36 Characterizing Functional Group Evolution in Biomass Burning Organic Aerosols Using Delta Analysis. WILLOW HWANG, Janie (Yeaseul) Kim, Christopher Lim, Jesse Kroll, Christopher Cappa, Rachel O'Brien, *University of Michigan*

9WF.37 Enhanced Radiative Cooling by Large Aerosol Particles from Pyrocumulonimbus. YAOWEI LI, John Dykema, David Peterson, Xu Feng, Xiaoli Shen, Nicole June, Michael Fromm, Theodore McHardy, Justin Jacquot, Jasna Pittman, Bruce Daube, Steven Wofsy, Jonathan Dean-Day, Anita Rapp, Kenneth Bowman, Daniel Cziczo, Loretta Mickley, Jeffrey R. Pierce, Frank Keutsch, *California Institute of Technology*

Thursday 3:00 PM - 3:30 PM
Coffee Break (Exhibit Hall AB)

Thursday 3:30 PM - 5:00 PM
Session 10: Platform

10AC AEROSOL CHEMISTRY 6: CHEMISTRY IN SINGLE-PARTICLES
BALLROOM AB – Ryan Davis and Adriane Tam, chairs

10AC.1 **Prebiotic Photochemistry in Aerosol Particles.** THOMAS PRESTON, *McGill University*
3:30

10AC.2 **Exploring Prebiotic Aerosol Chemistry Using Single Particle Levitation.** AARON M. PALMISANO, Stephanie Salas,
3:45 Lorraine Rhovierose Rivera, James F. Davies, *University of California, Riverside*

10AC.3 **Enhancement of Esterification Reaction Rates in Solvent-Free Aerosol Droplets.** BRYAN R. BZDEK, Joshua
4:00 Harrison, Aleksandra Marsh, Rachael E.H. Miles, Allen E. Haddrell, Jonathan P. Reid, *University of Bristol*

10AC.4 **Critical Assessment of Spontaneous Oxidation Chemistry in the Presence of Aqueous Aerosol.** RYAN DAVIS,
4:15 Paul Tumminello, David Schafer, Laura McCaslin, Christopher Kliewer, Leonid Sheps, *Sandia National Laboratories*

10AC.5 **How Surface Partitioning Regulates the Bulk Chemistry of Charged Microdroplets.** MICHAEL JACOBS, Rebika
4:30 Tamang, William Dean, Firoz Ahmed, Viola Fielgein, Jacob Twichell, Christian Haich, *Texas State University*

10AC.6 **Quantifying Gas-Particle Partitioning Through Single-Droplet Thermodynamics and Bulk-Phase Vapour**
4:45 **Accretion.** AJAY POTAVADOO, Jonathan P. Reid, *University of Bristol*

10AD DUST IN EARTH AND CELESTIAL SYSTEMS: SOURCES, SINKS, CHARACTERISTICS, ENVIRONMENTAL AND CLIMATIC IMPACTS 3: DUST IN CELESTIAL SYSTEMS
BALLROOM H – Marit Meyer and Marcela Loria Salazar, chairs

10AD.1 **Martian Dust as an Aerosolized Health Hazard During Long-Duration Human Space Exploration.** JUSTIN
3:30 WANG, Jeremy Rosenbaum, Ajay Prasad, Robert Raad, Esther Putman, Andrea Harrington, Michael Raad, Haig Aintablian, Brian Hynek, *Keck School of Medicine, University of Southern California*. INVITED.

10AD.2 **One Small Breath, One Giant Risk: Lunar Dust and Vascular Health.** MARK OLFERT, Travis Goldsmith, Anand
4:00 Ranpara, Evan DeVallance, *West Virginia University School of Medicine*

10AD.3 **Mars-Warming Effects of Natural and Engineered Aerosols, Past and Future.** EDWIN KITE, Ashwin Braude,
4:15 Adam Boies, *University of Chicago*

10AD.4 4:30 **Physical and Chemical Characterization of Lunar Regolith Simulants: From Aerosols to Coarse Fraction.** KRISTIN BUNKER, Marit Meyer, Traci Lersch, *RJ Lee Group, Inc.*

10AD.5 4:45 **Opera Sensor Characterization of Aerosolized Lunar Dust Simulants.** Sreekesh Kookkal, Marit Meyer, SURESH DHANIYALA, *Clarkson University*

10AE AEROSOL EXPOSURE 3
BALLROOM F – Xuan Zhang and Lucas Rojas-Mendoza, chairs

10AE.1 3:30 **Dense Low-Cost Sensor Networks Improve Neighborhood-Scale AQI Representation.** Kate DeMarsh, Peizhi Hao, Yaying Wang, Zeyi Moo, XUAN ZHANG, *University of California Merced*

10AE.2 3:45 **An Intercomparison of High-Resolution Models for Air Quality Environmental Justice Applications.** JOHN ALLEN, Peter Adams, *Carnegie Mellon University*

10AE.3 4:00 **Analyzing Drivers and Scales of Air Pollution in California's Overburdened Communities.** LUCAS ROJAS-MENDOZA, Libby H. Koolik, Yuzhou Wang, Cassidy Barrientos, Alper Unal, Julian Marshall, Joshua S. Apte, *University of California Berkeley*

10AE.4 4:15 **Spatial Variability of Oxidative Potential and Chemical Composition of PM2.5 from Transportation Sources in Los Angeles.** ZHUOYING LIN, Yuan Yao, Caleb Kwon, Alex Chang, Kyle Caulson, Yifang Zhu, Suzanne E. Paulson, *University of California, Los Angeles*

10AE.5 4:30 **Using Machine Learning to Develop Improved Exposure Models of Ultrafine Particles near the Los Angeles International Airport.** KYLE CAULSON, Steven Buschmann, Zhuoying Lin, Alex Chang, Michael Jerrett, Suzanne E. Paulson, *University of California, Los Angeles*

10AE.6 4:45 **Size and Composition Distribution of Particles Emitted from Tungsten Inert Gas (TIG) Welding.** MICHAEL KLEEMAN, Peter Green, Yuejun Zhou, *University of California, Davis*

10CM CONTROL AND MITIGATION TECHNOLOGIES 2: FILTER EVALUATION
BALLROOM C – Devabhaktuni Srikrishna and Jeffrey Siegel, chairs

10CM.1 3:30 **Evaluating Real-World Performance of HVAC Filtration and Air Cleaning Interventions in Commercial and Institutional Buildings.** Rafsan Nahian, Michelle Wu, David Kormos, JEFFREY SIEGEL, *University of Toronto*

10CM.2 3:45 **Impacts of Real-World Differences on the Performance of Do-It-Yourself Air Purifiers.** PRADEEP KUMAR, Misti Zamora, Hannah Cooke, Marina Creed, Jessica Hollenbach, Alexis West, Tia Nakhoul, Kristina Wagstrom, *University of Connecticut*

10CM.3 4:00 **Filtration Efficiency of MERV 13 Filters Before/After Continuous Use in an Extremely Polluted Environment > 500 mcg/m3.** DEVABHAKTUNI SRIKRISHNA, Esther Jung, Carla Ribeiro, Lara Pereira, Paulo Dos Santos, Roberto Oliveira, Julio Croda, Jason Andrews, *PatientKnowhow.com*

10CM.4 4:15 **Wildfire Smoke Particle Removal Efficiency of a Window AC Unit and Portable AC Unit Using Six Different Filter Medias.** RILEIGH ROBERTSON, Henrik Helmig, Marina Vance, *University of Colorado Boulder*

10CM.5 4:30 **The Effect of Filter Media Thickness on the Performance of Pleated Filters.** PEI-HUA WU, Sheng-Hsiu Huang, Chih-Wei Lin, Yu-Mei Kuo, Chih-Chieh Chen, *National Taiwan University*

10CM.6 4:45 **Evaluation of Portable Air Purifiers, Cabin Filters, and Test Methods for Vehicle Cabin Air Quality.** EVAN RENCK, Heejung Jung, *University of California, Riverside*

10HR HEALTH RELATED AEROSOLS 2: AEROSOL OXIDATIVE POTENTIAL: MEASUREMENTS, DETERMINANTS, AND TOXICITY
BALLROOM G – Ying-Hsuan Lin, P. S. Ganesh Subramanian and Paola Crippa, chairs

10HR.1 3:30 **Quantifying the Synergistic and Antagonistic Effects of Metal–Organic Complexation on Aerosol Oxidative Potential via Redox Kinetics.** SATOKO KAYABA, Yuji Fujitani, *National Institute for Environmental Studies*

10HR.2 3:45 **Crowdsourcing a National Monitoring Network for PM2.5 Mass, Metals, and Oxidative Potential.** JULIAN PROBSDORFER, Emilio Molina Rueda, Christian L'Orange, Xiaoying Li, Bonnie Young, Abby Evans, Tessa Jorgensen, Michelle Bell, Scott Weichenthal, Xiao Wu, Krystal Godri Pollitt, Francesca Dominici, John Volckens, *Colorado State University*

10HR.3 4:00 **Relationship Between Aerosol Light Absorption and Oxidative Potential During Photochemical Aging in an Urban Environment.** LI-TI CHOU, Jian-Xian Wu, Chia-Hsin Lin, Shu-Wen You, Rajan K. Chakrabarty, Ta-Chih Hsiao, *National Taiwan University, Taiwan*

10HR.4 4:15 **Linking Air Pollution Determinants to Health Outcomes via Oxidative Potential: The PolluRisk 2.0 Platform for Multi-Atmosphere in Vitro and in Vivo Exposure Studies.** PATRICE COLL, Ambre Delater, Christina Vasilakopoulou, Aline Gratien, Lisa Guth, Christopher Ferland, Lucy Gerard, Mathieu Cazaunau, Edouard Pangui, Bénédicte Picquet-Varrault, Thomas Audoux, Laurent Alleman, Esperanza Perdrix, Davy Rousset, Albane Barbero, Anouk Marsal, Gaëlle Uzu, Audrey Der Vartanian, Clément Buissot, Benjamin Simonneau, Sophie Lanone, The PolluRisk Team, *Université Paris Cité and Univ Paris Est Creteil, CNRS, LISA*

10HR.5 4:30 **Metal-Carbonaceous Aerosol Complex as a Driver of PM2.5 Toxicity in High-Rise Urban Buildings.** AVNISH SHUKLA, Shreya Dubey, Vinayak Sahota, Harish C. Phuleria, *Indian Institute of Technology Bombay*

10HR.6 4:45 **Size- and Time-Resolved Emission Rates of Particulate Matter Mass, Chemical Constituents, and Oxidative Potential from Indoor Sources.** P. S. GANESH SUBRAMANIAN, Anson Regi, Saman Haratian, Mohammad Heidarinejad, Brent Stephens, Vishal Verma, *University of Illinois Urbana-Champaign*

10WF THE BREATH OF FIRE: AEROSOL, HEALTH, AND PROTECTION IN THE WILDLAND-URBAN INTERFACE (WUI) 5: INDOOR CONTAMINATION AND MITIGATION
BALLROOM DE – Dustin Poppendieck and Haoxuan Chen, chairs

10WF.1 3:30 **Contamination of the Indoor Environment by WUI Fire Smoke.** MICHAEL LINK, Nathan Lima, Aika Davis, Ryan Falkenstein-Smith, Thomas Cleary, Steven Emmerich, Dustin Poppendieck, *National Institute of Standards and Technology*

10WF.2 3:45 **Drywall as an Indoor Reservoir for Wildfire Smoke VOCs: Effects of Paint Layer and Porosity.** RACHEL HURLEY, Anita Avery, Manjula Canagaratna, Mitchell Alton, Fatemeh Ghajari, Nima Rahbar, Albert Simeoni, Chenyang Bi, Shichao Liu, *Worcester Polytechnic Institute*

10WF.3 4:00 **Retention of Fire Smoke Pollutants in Soft Household Items Impacted by the 2025 Los Angeles Fires.** HAOXUAN CHEN, Qiao Yu, Qiyue Nie, Priscilla Boo, Logan Umaguing, Annie Ding, Andy Liu, Jing Li, Muchuan Niu, Yuan Yao, Yifang Zhu, *University of California, Los Angeles*

10WF.4 4:15 **Wildfire Smoke Preparedness Planning and Indoor Air Quality Interventions for Oregon's Schools.** PARICHEHR SALIMIFARD, C. Victoria McCrary, Jalil Mokhtarian Mobarakeh, Lillian Moo, Meghan Megowan, Sara Jones, Perry Hystad, Molly Kile, *Oregon State University*

10WF.5 4:30 **Are Portable Air Cleaners Operated When Needed? Time-Resolved Evidence from Preschool Classrooms During Wildfire Events.** C. VICTORIA MCCRARY, Xiaosu Ding, Jalil Mokhtarian Mobarakeh, Caleb Rismiller, Lillian Moo, Meghan Megowan, Sara Jones, Perry Hystad, Molly Kile, Parichehr Salimifard, *Oregon State University*

10WF.6 4:45 **Increasing Access to Comfortable and Healthy Indoor Air During Extreme Outdoor Events.** DUSTIN POPPENDIECK, Nathan Lima, Jana Butman, Aika Davis, Ryan Falkenstein-Smith, Michael Link, Thomas Cleary, *National Institute of Standards and Technology*

Thursday 5:00 PM - 6:00 PM
ASCENT Meeting (Ballroom AB)

Thursday 5:00 PM - 6:30 PM
Technical Program Committee Meeting (Room 207)

Thursday 6:00 PM - 7:00 PM
Frontlines of WUI Fires: An Interactive Panel on Emissions, Response, and Impacts (Ballroom DE)

Friday

Friday 8:00 AM - 9:15 AM
Session 11: Platform

11AC AEROSOL CHEMISTRY 7: AEROSOL COMPOSITION AND CHEMISTRY
BALLROOM AB – Rachel O'Brien and Cooper Crabtree, chairs

11AC.1 8:00 **PFAS in the Urban Atmosphere Detected with I-CIMS and LC-ESI Orbitrap Mass Spectrometer.** Lee Tiszenkel, Vignesh Vasudevan Geetha, Zachary Watson, James Flynn, SHANHU LEE, *The University of Alabama in Huntsville*

11AC.2 8:15 **Online Gas- and Particle-Phase Speciation of Organic Aerosol Formation in Paris.** Imad Zgheib, Milan Roska, Sebastien Perrier, Francois Gaie-Levrel, Laurent Gauvin, Mendosa Rabort, Urs Rohner, Felipe Lopez-Hilfiker, Georgios Gkatzelis, MATTHIEU RIVA, *CNRS-IRCELYON*

11AC.3 8:30 **Integration of Oxidation Mechanisms of Phenolic Compounds Into CRACMM2.** ABDULLAH ALTORKI, Myoseon Jang, *University of Florida*

11AC.4 8:45 **Diurnal and Seasonal Dynamics in the Competition Between Atmospheric Oxidation and Deposition.** SINA TAYYEBI NIA, Chenyang Bi, Gabriel Isaacman-VanWertz, *Virginia Tech*

11AC.5 9:00 **Functional Groups with Online Aerosol Mass Spectrometry: OA Aging Processes and Properties.** RACHEL O'BRIEN, Manjula Canagaratna, Xu He, Janie (Yeaseul) Kim, Willow Hwang, Hannah Kenagy, Christopher Cappa, *University of Michigan*

11AD DUST IN EARTH AND CELESTIAL SYSTEMS: SOURCES, SINKS, CHARACTERISTICS, ENVIRONMENTAL AND CLIMATIC IMPACTS 4: DUST IN EARTH AND CELESTIAL SYSTEMS
BALLROOM H – Hans Moosmuller and Alexandria Johnson, chairs

11AD.1 8:00 **A Dust-Discriminating Smoke Detector Suitable for Lunar Missions.** MARIT MEYER, Thorsten Schultze, Jan Balzer, *Amentum/NASA*

11AD.2 8:15 **Extracting Lunar Simulant Size Distributions from Opera's Multi-Channel, Multi-Wavelength Sensor Data.** DMITRI CHILDS, Sreekesh Kookkal, Marit Meyer, Suresh Dhaniyala, *Clarkson University*

11AD.3 8:30 **Aerosols and Clouds in the Transient Lunar Atmosphere.** ALEXANDRIA JOHNSON, Eli Hueston, Rowan Nag, *Purdue University*

11AD.4 8:45 **Modeling and Source Attribution of Fugitive Dust at the Oceano Dunes.** EDEN FURTAK-COLE, *Desert Research Institute*

11AD.5 9:00 **Trace Metal-Containing Aerosols in the Atmosphere of the Southern Indian Ocean.** Johannes Passig, Aleksandrs Kalamasnikovs, HASEEB HAKKIM, Sven Ehlert, Andreas Walte, Nicole Riemer, Eric Achterberg, Ralf Zimmermann, *University of Rostock*

11CA CARBONACEOUS AEROSOLS 2: BROWN CARBON
BALLROOM F – Martin Rigler and Rafael Braga Gomes, chairs

11CA.1 8:00 **Automated Aerosol Type Classification Using a 2D Absorption Ångström Exponent Framework and Unsupervised Learning Based on AE36s 9λ Absorption Measurements.** Asta Gregorič, Matic Ivančič, Irena Ježek Brecelj, Bálint Alföldy, MARTIN RIGLER, *Aerosol d.o.o.*

11CA.2 8:15 **Fluorophoric Composition of Brown Carbon Aerosols over the Megacity of India.** Swati Joshi, ATINDERPAL SINGH, Chandrima Shaw, Garima Verma, Neeraj Rastogi, *University of Delhi, India*

11CA.3 8:30 **Enriched Brown Carbon and Rapid Aging in Wildfire Smoke Revealed by a Carbonaceous Aerosol Speciation System.** L.-W. ANTONY CHEN, Olusanya Onamuti, *University of Nevada, Las Vegas*

11CA.4 8:45 **Quantifying Brown Carbon Absorbance from PM2.5 Filter Samples via Digital Imaging.** RAFAEL BRAGA GOMES, Maisha Agarwal, Annika Khurana, Tracy Lu, Kyan Shlipak, Sina Hasheminassab, Olga Kalashnikova, Albert Presto, *Carnegie Mellon University*

11CA.5 9:00 **Using Non-Target Analysis to Derive Novel Formation Pathways to Secondary Brown Carbon from Biomass Burning Carbonyls in Aerosol Liquid Water.** RHIANNA EVANS, Angelina Petersen, Tran Nguyen, *University of California, Davis*

11CM CONTROL AND MITIGATION TECHNOLOGIES 3: BIOAEROSOL MITIGATION
BALLROOM C – Devabhaktuni Srikrishna and Christine McCool, chairs

11CM.1 8:00 **Evaluating HVAC Filtration Performance for Biological Aerosols Under Occupied Conditions.** DAVID KORMOS, Rafsan Nahian, Michelle Wu, Sarah Haines, Jeffrey Siegel, *University of Toronto*

11CM.2 8:15 **Quantifying Airborne Microbe Inactivation Rates by Far-UVC, One Droplet at a Time.** Robert Alexander, Xia Yi, Kennedy Peek, Tristan Cogan, Jamie Mann, Darryl Hill, Adam Finn, Andrew Davidson, JONATHAN P. REID, Allen E. Haddrell, *University of Bristol*

11CM.3 8:30 **Glycol Vapors in Emergency Airborne Pathogen Transmission Suppression.** DARRYL ANGEL, Brian Renda, Steve Martin, Aman Patel, Richard Williamson, Jacob Swett, *Blueprint Biosecurity*

11CM.4 8:45 **Advancing Bioaerosol Efficacy Test Methods for Air Treatment Technologies.** KATHERINE RATLIFF, *U.S. Environmental Protection Agency*

11CM.5 9:00 **Indoor Air Quality Intervention Using DIY Filtration and Environmental Genomic Analysis of Airborne Respiratory Viruses in School Classrooms.** PRADEEP KUMAR, Misti Zamora, Hannah Cooke, Marina Creed, Kristina Wagstrom, Jessica Hollenbach, *University of Connecticut Health Center*

11HR HEALTH RELATED AEROSOLS 3: LINKING FORMATION, AGING, AND BIOLOGICAL FATE OF HEALTH-RELATED AEROSOLS
BALLROOM G – Eleni Dovrou and Xianginyue Meng, chairs

11HR.1 8:00 **Tracing Particulate Matter and Reactive Atmospheric Species Formation and Fate Inside the Respiratory and Circulatory System.** ELENI DOVROU, *University of Crete*

11HR.2 8:15 **Comparing the Toxicological Effects of Primary and Aged Logwood Stove Emissions on Human Alveolar Cells Exposed at the Air-Liquid Interface.** Aurelia Alunni, Emeline Barbier, Nour Jaber, Yamina Allouche, Ali Hnaino, Serge Collet, Jean-Pascal Meneboo, Martin Figeac, Brice Temime-Roussel, Barbara D'Anna, Gaëlle Uzu, Antje Biesemeier, Anthony Verdin, Guillaume Garçon, ALEXANDRE ALBINET, WOODNIGHT/WOODTOX-ALI Team, *INERIS*

11HR.3 8:30 **Effects of Atmospheric Aging on the Respiratory Toxicity of Polystyrene Nanoplastics Particles.** Alana Dodero, Olivia Lampe, Sahir Gagan, Sining Niu, Natalie Johnson, YUE ZHANG, *Texas A&M University*

11HR.4 8:45 **Dose-Dependent Increases in Airway Resistance Following Secondhand E-Cigarette Aerosol Exposure in Vape Shops.** SIRI LANGMO, Haoxuan Chen, Karah Lee, Muchuan Niu, Logan Umaguing, Yifang Zhu, *University of California, Los Angeles*

11HR.5 9:00 **From In Vivo to In Vitro: Alzheimer's Disease Risk from Exposure to Different Particulate Matter Constituents.** YUEZHI (AUGUST) LI, Joseph V. Puthussery, Keyao Song, Nathan McFarland, Shu-Wen You, Jessica Restivo, John Cirrito, Rajan K. Chakrabarty, *Washington University in St. Louis*

11WF THE BREATH OF FIRE: AEROSOL, HEALTH, AND PROTECTION IN THE WILDLAND-URBAN INTERFACE (WUI) 6: WUI FIRE SMOKE AND HEALTH
BALLROOM DE – Nancy Daher and David De Haan, chairs

11WF.1 8:00 **Impact of Wildfire Smoke on Indoor Air Quality in K-12 Schools in the Western US.** Jimmy Dimpor, Tristalee Mangin, Kerry Kelly, Ryan Thalman, NANCY DAHER, *University of Utah*

11WF.2 8:15 **A New Method of Long Term Smoke Exposure for Mouse Model Studies, from Capture to Exposure.** HOVANNESS DINGILIAN, Veronica Penuelas, Terese Garcia, Kainoa Koffman, Joule Parker, David Lo, Andre Obenaus, Thomas Eckel, David R. Cocker, *University of California, Riverside*

11WF.3 8:30 **Urinary Metabolites of Unsubstituted and Methylated PAHs Before, During, and After Wildfires.** RUOXUE CHEN, Yan Lin, Xiangtian Wang, Chenyu Qiu, Wu Chen, Zhenchun Yang, Zhanghua Chen, Junfeng Zhang, *Duke University*

11WF.4 8:45 **Black Carbon as Urinary Biomarker of Acute Wood Smoke Exposure: Time Dependent Excretion Kinetics.** XIANGTIAN WANG, Ruoxue Chen, Lisa Cameron, Yan Lin, Junfeng Zhang, *Duke University*

11WF.5 9:00 **How Smoke Plume Aging Conditions Influence Oxidant Generation in Simulated Lung Fluid.** DAVID DE HAAN, Matthew Stephenson, Evelyn Yandle, *University of San Diego*

Friday 9:15 AM - 9:45 AM
Coffee Break (Lobby outside Exhibit Hall AB)

Friday 9:45 AM - 10:45 AM
Session 12: Platform

12AC AEROSOL CHEMISTRY 8: PHYSIOCHEMICAL AEROSOL PROPERTIES
BALLROOM AB – Abiola S. Lawal and Yuan Liu, chairs

12AC.1 9:45 **The Impact of the 2020 COVID-19 Pandemic on Aerosol Acidity.** Kaitlyn G. Mahoney, Nicolina R. Sainthyle, Naomi A. Schluetter, ABIOLA S. LAWAL, *University of Connecticut*

12AC.2 10:00 **Influence of Surface Charge on Aerosol Physicochemical Properties, Aggregation, and Ice Nucleation.** SARAH D. BROOKS, Roya Safa, Daniel Thornton, *Texas A&M University*

12AC.3 10:15 **Phase Transitions in Multicomponent Systems Relevant to Atmospheric New Particle Formation.** Dilini Kirindigoda Gamage, MIRIAM FREEDMAN, *The Pennsylvania State University*

12AC.4 10:30 **Modeling and Parameterization of Size-Dependent Processes in Multiphase Aerosol Chemistry.** Sandhya Sethuraman, Daniel Westervelt, Kedong Gong, Vicki Grassian, V. FAYE MCNEILL, *Columbia University*

12CA CARBONACEOUS AEROSOLS 3: URBAN OBSERVATIONS
BALLROOM F – Benjamin Nault and Chrstian Escritt, chairs

12CA.1 9:45 **Spatial Heterogeneity of Organic Aerosol Composition and Formation in Two Contrasting Neighborhoods in Greater Boston.** ABIR SAHA, Khanh Do, Yang Zhang, Shang Liu, *Northeastern University*

12CA.2 10:00 **On-Road Measurements and Characterization of Tire-Wear PM Emissions.** ELIZABETH DEFRANCE, Zisimos Toumasatos, Georgios Karavalakis, *University of California, Riverside*

12CA.3 10:15 **Standardization of Black Carbon Measurements in Europe.** Griša Močnik, Luka Drinovec, Thomas Müller, Eija Asmi, Ernest Weingartner, Krzysztof Ciupek, Konstantinos Eleftheriadis, KONSTANTINA VASILATOU, Jorge Saturno, *University of Nova Gorica*

12CA.4 10:30 **Restructuring of Black Carbon Aggregates Upon Coating with Commercial Fragrances and Their Products of Ozonolysis.** CHRISTIAN ESCRITT, Habeeb Al-Mashala, James Radney, Elijah Schnitzler, *Oklahoma State University*

12CM CONTROL AND MITIGATION TECHNOLOGIES 4: NOVEL DEVICES AND TECHNIQUES
BALLROOM C – Ming-Yeng and Marit Meyer, chairs

12CM.1 9:45 **Range Hood Use and Impacts on PM2.5 from Cooking: Results from a Field Study.** Yi Fang, Haoran Zhao, Anabelle Garza, Arlette Garcia-Ramirez, Briseida Vasquez, Debra Garcia, Jesus Rivera, Tim Tyner, Stephanie Holm, John Balmes, BRETT SINGER, *Lawrence Berkeley National Laboratory*

12CM.2 10:00 **Optimization of Airflow at High Containment Large Animal Facilities to Reduce Pathogen Spread.** Juan Garcia Lunar, John Cate, Julia Bippus, Eduardo Escamilla Rodriguez, Stephen King, Kurt Zuelke, MARIA KING, *Texas A&M University*

12CM.3 10:15 **Performance Evaluation of a Hybrid Ambient Air Purification Device in an Open and Semi-Enclosed Urban Microenvironments: Field Measurements and CFD Analysis.** PRASHANT NAWALE, Manoranjan Sahu, *Indian Institute of Technology Bombay*

12CM.4 10:30 **Aerosol Reduction and Visibility Improvement with a Novel Dental Handpiece.** Pan-Chin Kung, Hsin-Hung Chien, Yung-Chung Chen, Chun-Juei Chou, MING-YENG LIN, *National Cheng Kung University*

12HR HEALTH RELATED AEROSOLS 4: URBAN HEALTH-RELATED AEROSOLS: ULTRAFINE PARTICLES, EXPOSURE METRICS, AND COMMUNITY APPLICATIONS
BALLROOM G – Cesunica Ivey and Nicholas Meskhidze, chairs

12HR.1 9:45 **Ultrafine Particles in Roadway and Near-Roadway Environments in Senegal.** SUZANNE E. PAULSON, Kyle Caulson, Jiaqi Shen, Baidy Sow, Bertrand Tchanche, Shallon Kobusinge, *University of California, Los Angeles*

12HR.2 10:00 **Beyond PM2.5: Localized Sub-10 nm Ultrafine Particle Bursts from Natural Gas Combined Heat and Power Facilities in an Urban Environment.** Stephanie Bachman, Jonah Hazelwood, Lintong Cai, Markus Petters, NICHOLAS MESKHIDZE, *North Carolina State University*

12HR.3 10:15 **Estimating Health Risks of Urban Air Pollution in Karachi Using Cigarette-Equivalence Metrics.** HAIDER KHWAJA, Najm Madani, David Carpenter, *University at Albany*

12HR.4 10:30 **Personalized Source Apportionment for Community Applications.** SUMUKHI PRASAD, Cesunica Ivey, *University of California, Berkeley*

12NP NANOPARTICLES AND MATERIALS SYNTHESIS 2
BALLROOM H – Almond Lau and Omar Allahham, chairs

12NP.1 9:45 **The Kinetics of Aerosol 1D Fractal Aerosol Self-Assembly.** ADAM BOIES, Nabil Abomailek, Juan Vilatela, *Stanford University*

12NP.2 10:00 **Aerosol-Phase Engineering of Heterogeneous Metal Nanoreactors.** CYPRIEN JOURDAIN, Adam Boies, *Stanford University*

12NP.3 10:15 **Aerosol Metal-Organic Framework (MOF) Synthesis.** ALMOND LAU, Ji Feng, Igor Novosselov, *University of Washington*

12NP.4 10:30 **Gelation of Graphene During Chamber Explosion Synthesis.** Shusil Sigdel, CHRISTOPHER M. SORENSEN, *Hydrograph Clean Power, Inc.*

12WF THE BREATH OF FIRE: AEROSOL, HEALTH, AND PROTECTION IN THE WILDLAND-URBAN INTERFACE (WUI) 7: WUI FIRE AEROSOLS
BALLROOM DE – Yue Zhang and Zongrun Li, chairs

12WF.1 9:45 **Sulfuric Acid Can Drastically Enhance the Absorption Properties of Wildfire Smoke Particles in the Stratosphere.** MEI FEI ZENG, Changda Wu, Zhaomin Yang, Erik Jackson, Sergey Nizkorodov, Allan K. Bertram, *University of British Columbia*

12WF.2 10:00 **The Interconnection of Bleaching, Phase State, and Volatility of Brown Carbon During Atmospheric Aging.** Jiayun Zhao, Mingsheng Fang, Ajith Thenoor Chandran, Guoyang Lei, Shunyu Yao, Burke Leonce, Raghu Betha, Garrett McKay, YUE ZHANG, *Texas A&M University*

12WF.3 10:15 **Chromophores, Molecular Composition, Physical Properties, and Photolytic Aging of Wildland Urban Interface Burning Organic Aerosol.** MATT ZARAGOZA, Luis Ruiz Armenta, Qiaorong Xie, Abigail Smith, Alexander Laskin, Kevin Ridgway, Christian L'Orange, Shantanu Jathar, Zoë Golay, Evan Chartrand, Allan K. Bertram, Zezhen Cheng, Gregory W. Vandergrift, Swarup China, Sergey Nizkorodov, *University of California, Irvine*

12WF.4 10:30 **RADSENSE: A Machine Learning-Based Smoke Forecast System.** ZONGRUN LI, Eric Wendt, Shantanu Jathar, Jesse Burkhardt, Ander Wilson, Christian L'Orange, John Volckens, *Colorado State University*

Friday 11:00 AM - 12:30 PM
Plenary 4 (Ballroom DE)

11:00 **Friedlander Lecture: The Indoor Air Microbiome** Jordan Peccia, *Yale University*

Moderator Gediminas Mainelis, *Rutgers University*

12:00 **Student Poster and Oral Platform Competition Award Presentation** Jessica Tryner, *Access Sensor Technologies*

12:05 **Fine Particle Arts Competition Award Presentation** Kayane K. Dingilian, *California Institute of Technology*

12:10 **Announcement of the Juan Fernadez de la Mora Prize** Fan Mei and Andrea Tiwari, *Pacific Northwest National Laboratory and TSI Inc.*

12:15 **Concluding Remarks and Preview for 2027** Roya Bahreini, 2026 Conference Chair; Anita Avery, 2027 Conference Chair, *UC Riverside, Aerodyne Research, Inc.*

Friday 12:30 PM - 4:00 PM
AAAR Board of Directors Meeting (Room 211)

Friday 1:30 PM - 7:30 PM
AAAR at Mount Wilson Observatory