12th CRC MSAT Agenda

Tuesday February 10th, 2026

Welcome and Plenary Speaker

- 8:00 - Welcome by the Workshop Co-Chairs, Sandy Winkler, Ford, Bud Ghosh, Phillips66, and Abhilash Vijayan, University of California, Riverside
- 8:15 - Air Toxics in Urban Air: Past, Present and Future - Plenary Speaker Joost de Gouw, University of Colorado Boulder
- 9:15 – 15 Minute BREAK

Session 1 - Sources and Emissions of MSATs

- 9:30 - Introduction by Session Chairs Sang Mi Lee, South Coast Air Quality Management District, and Justine Geidosch, US Environmental Protection Agency
- 9:35 - Comparison of Mobile Source Air Toxics from Class 4–6 Diesel and Gasoline Trucks on a Heavy-Duty Chassis Dynamometer - Kwangsam Na (CARB)
- 9:50 - Emission factors from on-road measurements of NOx, VOCs, CO, CH4, CO2 and other species in several Southwest US cities - Steven S. Brown (NOAA)
- 10:05 - Mobile Source Air Toxic Emissions and Secondary Aerosol Formation From Renewable Naphtha Blends With Ethanol - Georgios Karavalakis (UCR)
- 10:20 - Comparison of Non-Exhaust particulate matter emissions between conventional and electric light duty vehicles - Okjoo Park (CARB)
- 10:35 - Brake-Wear PM Emissions During Real-World Vehicle Testing - Georgios Karavalakis (UCR)
- 10:50 - Lithium-ion battery thermal runaway particle emissions - Georgios Karavalakis (UCR)
- 11:05 - Particulate Emissions from thermal runaway of lithium-ion batteries - Vinay Premnath (ULRI)
- 11:20 - Q&A
- 11:30 - End of Session

Tuesday CARB Tour

- 11:30 - Tour Begins; Gathering Location TBA

12th CRC MSAT Agenda

- Lunch Available for regular attendees

Session 2 - Modeling of MSAT Emission Impacts

- 1:30 - Introductions by Co-Chairs George Karavalakis, University of California, CE_CERT and Sandy Winkler, Ford Motor Co.
- 1:35 - Air Toxics Modeling in the South Coast Air Basin of California - Sang-Mi Lee (AQMD)
- 1:50 - High-Resolution Hybrid Modeling of Air Toxics over Disadvantaged Communities in Los Angeles - Marc Carreras Sospedra (AQMD)
- 2:05 - Application of CMAQ-DDM-3D for Modeling Mobile Source Emission Impacts on Air Toxics - Aryiana Moore (GA Tech)
- 2:20 - Mobile Measurements of Ultrafine Particle Pollution Around the Los Angeles International Airport - Kyle Caulson (UCLA)
- 2:35 - Resolving Mobile vs. Industrial Contributions: A Crosswalk Analysis of Receptor Modeling and Dispersion Modeling to Improve Source Attribution of Benzene in Commerce City / North Denver - Elizabeth Wallace (CDPHE)
- 2:50 - Effects on urban air quality due to volatilisation of organic compounds from tires - Nick Molden (EA)
- 3:05 - Q&A
- 3:15 – 15 minute Break

Session 3 - Ambient Air Quality Trends of MSATs

- 3:30 - Introductions by Co-Chairs Jason Low, South Coast Air Quality Management District and Kate Hoag, Bay Area Air District
- 3:35 - The Multiple Air Toxics Exposure Study VI - Scott Epstein (AQMD)
- 3:50 - Characterizing Air Toxics across Bay Area Communities: Monitoring efforts, Trends, and Insights - Jennifer Ofodile (BAAQMD)
- 4:05 - A Decade of Change: Air Quality in West Oakland, CA in 2015 and Today - Samuel Cliff (UCB)
- 4:20 - Air Toxics in California Communities – Evaluating the Contributions of Transportation Sources - Olivia Ryder (STI)

12th CRC MSAT Agenda

- 4:35 - Airborne nanoparticle metals in debris cleanup zones from Eaton and Palisades Fires - Mike Kleeman (UCD)
- 4:50 - Q&A
- 5:00 - End of Day 1

Tuesday Networking Reception

- Begins at 6:00 PM at the Mission Inn Hotel

Wednesday February 11th, 2026

Wednesday Welcome and Plenary Speaker

- 8:00 - Welcome Back by the Workshop Co-Chairs, Sandy Winkler, Ford, Bud Ghosh, Phillips66, and Abhilash Vijayan, University of California, Riverside; and Opening Remarks
- 8:15 - Mobile Source Air Toxics in Transition: Scientific Insights for a Changing Transportation Landscape - Plenary Speaker Elena Craft, Health Effects Institute
- 9:15 - 20 Minute Break

Session 4 - Health and Exposure Assessments

- 9:35 - Introductions by Co-Chairs Karim Hamza, Toyota and Elena Craft, Health Effects Institute
- 9:50 - Non-exhaust particulate matter exposures and health effects: the HEI experience and what's next? - Allison P Patton (HEI)
- 10:05 - Modeling near-roadway exposures in health effects studies using a major freeway tunnel system - Keith Bein (UCD)
- 10:20 - Cardiovascular health impacts of traffic-related air pollution from different mobile sources - Chao-Yin Chen (UCD)
- 10:35 - A pragmatic randomized crossover trial of HEPA filtration on blood pressure, cognition, and inflammation - Doug Brugge (UCHC)

12th CRC MSAT Agenda

- 10:50 - Component-dependent effects of traffic-related air pollution on systemic and respiratory innate immune responses - Heui Hye Park (UCD)
- 11:05 - The effects of chronic exposure to ambient traffic-related air pollution on Alzheimer's disease phenotypes in wildtype and genetically predisposed male and female rats - Pamela J. Lein (UCD)
- 11:20 - Oxidative potential of brake-wear particulate matter emissions from light-duty and heavy-duty vehicles - Yuan Yao (UCLA)
- 11:35 - Q&A
- 11:45 - Lunch

Session 5 - Regulatory Programs and Accountability Studies

- 1:00 - Introductions by Co-Chairs Seungju Yoon, California Air Resources Board and Abhilash Vijayan, University of California, Riverside
- 1:05 - Sources and Emissions of Mobile Source Air Toxics: Findings from In-Use Surveillance Testing, Emissions Projections, and Emerging Opportunities - David Quiros (CARB)
- 1:20 - Impacts of Adopting Zero-Emission Truck Regulations on Tailpipe and Non-Tailpipe Emissions and Air Quality in Southern California, Jiachen Zhang (UCR)
- 1:35 - Super-Emitters On California Roads - On-road VOC fingerprinting from Mobile Monitoring - Mike Giordano (UCB)
- 1:50 - Continuing Remote Sensing Emissions Measurements of the California Vehicle Fleet - Alan Stanard (ERG)
- 2:05 - Community Air Protection Program: Stories of Impact and the Road Ahead - Amaya Hernandez (CARB)
- 2:20 - Accountability Studies on Air Pollution and Health: State of the Science and Future Directions - Dan Crouse (HEI)
- 2:35 - Q&A
- 2:45 - Closing Remarks from the Workshop Chairs
- 3:00 - End of Workshop