

Tuesday, December 12th

Aerodyne Presentations:

16:15 <u>Linking subsurface biogeochemical nitrogen cycling to N2O surface fluxes</u> presented by Elizabeth Lunny in eLightning Theater III, Hall D – South.

B24E eLightning session (The Bioatmospheric N Cycle: N Emissions, Transformations, and Deposition and Terrestrial and Aquatic Ecosystem Impacts III) from 16:00-17:30

16:40 Ambient ethylene oxide measurements and emissions from commercial sterilization facilities
Presented by Tara Yacovitch in Room 3004 - West

A24A Session (Advances in Methods and Technologies for Emission Monitoring and Exposure Assessment to Hazardous Air Pollutants II Oral) from 16:00-17:30

17:00 Industrial Point Source Plumes and Neighborhood Impacts Measured with the Aerodyne Mobile Laboratory during the Dallas Field Study Presented by Edward Fortner in Room 3004 – West A24A Session (Advances in Methods and Technologies for Emission Monitoring and Exposure Assessment to Hazardous Air Pollutants II Oral) from 16:00-17:30

Presentations featuring Aerodyne:

16:10 <u>Leveraging Spatial Measurements of VOCs to Quantify Community Exposures and Risk:</u>
Results from the Hazardous Air Pollution and Monitoring Assessment Project (HAP-MAP) By Peter DeCarlo in Room 3004 – West.

A24A Session (Advances in Methods and Technologies for Emission Monitoring and Exposure Assessment to Hazardous Air Pollutants II Oral) from 16:00-17:30

16:30 Ethylene Oxide at the Industrial Fenceline in Southeastern Louisiana: Spatially-Resolved Concentrations and Plume Measurements from Fast Time-Resolution Mobile Monitoring During HAP-MAP By Ellis Robinson in Room 3004 – West.

A24A Session (Advances in Methods and Technologies for Emission Monitoring and Exposure Assessment to Hazardous Air Pollutants II Oral) from 16:00-17:30



Wednesday, December 13th

Aerodyne Presentations:

10:50 Non-targeted Volatile Organic Carbon Detection and Quantification by in-situ Gas
Chromatography Coupled with a Novel Mass Spectrometric Method Which Offers Simultaneous
Electron Ionization and Chemical Ionization Detection Presented by Megan Claflin in Room 3002 –
West

A32A Session (Advances in Instrumentation and Measurement Technology in the Atmospheric Sciences I Oral) from 10:20-11:50

11:10 Unraveling the Complexity of Atmospheric Organics with Fast, Bipolar, Multi-reagent Chemical Ionization Mass Spectrometry Presented by Manjula Canagaratna in Room 3002 – West A32A Session (Advances in Instrumentation and Measurement Technology in the Atmospheric Sciences I Oral) from 10:20-11:50

Aerodyne Posters:

08:30-12:50 Session in Poster Hall A-C – South

Poster # A31D-2422 Continued role of oil and sulfur in ground-based aircraft engine particle emissions during the 2022 Boeing ecoDemonstrator measurements By Benjamin Nault Poster Group A31D (Aircraft Engine Emissions Impacts on Air Quality, Cloud Formation, and Climate II Poster)

14:10-18:30 Session in Poster Hall A-C - South

Poster # A33I-3649 Recent mobile GC-TOFMS measurements of VOCs in North America by Brian Lerner

Poster Group A33I (Advances in Methods and Technologies for Emission Monitoring and Exposure Assessment to Hazardous Air Pollutants IV Poster)

Presentations/Posters featuring Aerodyne:

14:40 Methanogen Community Composition Drives Shifts in Methane Isotopes Across High-Latitude Peatlands By. Carmody McCalley in Room 3007 – West.

B33A Session (Building a More Complete Representation of Methane Dynamics Across Earth's Ecosystems II Oral) from 14:10-15:40



Thursday, December 14th

Aerodyne Presentations:

08:48 <u>Two-Channel, Fast Time-Response CAPS NOx Monitor</u> by Tim Onasch & Zachary Payne in eLightning Theater I, Hall D – South

A41S eLightning Session (Advances in Instrumentation and Measurement Technology in the Atmospheric Sciences IV eLightning) from 8:30-10:00

Aerodyne Posters:

08:30-12:50 Session in Poster Hall A-C - South

Poster Group A41I (Advances in Instrumentation and Measurement Technology in the Atmospheric Sciences V Poster)

Poster # A41I-2743 Simultaneous multi-reagent ion detection of atmospheric traces gases using chemical ionization mass spectrometry: results from recent measurements in an urban environment by Harald Stark

Poster #A41I-2750 Quantification of Controlled Hydrogen Releases Using a Novel Instrument on a Mobile Platform by Conner Daube

Poster A41I-2740 Measuring subsurface hydrogen sources and sinks with high spatiotemporal resolution by Joseph (Rob) Roscioli

Presentations/Posters featuring Aerodyne:

8:30-12:50 Session in Poster Hall A-C – South

Poster B41F-2528 <u>VOC-plant-microbe interactions in the subsurface: Observations on the transport</u> and fate of volatile organic compounds in soil By Gemma Purser

Poster Group B41F (Secrets of the Subterranean: Deciphering Plant-Microbe Interactions in the Rhizosphere from Molecules to Ecosystem Functioning I Poster)

10:20 Observations at the NYC-METS Ground Site in New York City during the Summer 2023 AGES+ Measurement Intensive By Drew Gentner in Room 3001 – West.

A42B Session (Air Quality Trends and Challenges in Urban Area II Oral) from 10:20-11:50

10:40 <u>Volatile Organic Compound Emissions and Chlorine Oxidation in an Arctic Oil Field</u> By Andrew Jensen in Room 3000 – West.

A42G Session (Seasonal Arctic and Wintertime Atmospheric Composition and Chemistry I Oral) from 10:20-11:50

15:14 <u>Ammonium controls synthesis of organic nitrogen while nitrate drives dissimilatory nitrous oxide production in sorghum rhizospheres</u> By Holly Andrews in Room 3007 – West.

B43B Session (Secrets of the Subterranean: Deciphering Plant-Microbe Interactions in the Rhizosphere from Molecules to Ecosystem Functioning II Oral) from 14:10-15:40

15:25 Root volatile organic compound emission variations with plant species, rhizosphere, and drought stress By Qunli Shen in Room 3007 – West.

B43B Session (Secrets of the Subterranean: Deciphering Plant-Microbe Interactions in the Rhizosphere from Molecules to Ecosystem Functioning II Oral) from 14:10-15:40



Friday, December 15th

Aerodyne Posters:

08:30-12:50 Session in Poster Hall A-C - South

Poster # B51E-1820 Novel probes for real-time monitoring of dissolved nitrous oxide, methane and other gases and their isotopes in aquatic ecosystems by Joanne Shorter

Coastal Wetland Carbon and Nitrogen Cycles: Recent Advances in Measurements, Modeling, and Syntheses I Poster

Presentations/Posters featuring Aerodyne:

08:30-12:50 Session in Poster Hall A-C - South

Poster # A51Y-2306 Observations of Reactive Bromine Chemistry in an Arctic Oil Field by Graham Frazier

Seasonal Arctic and Wintertime Atmospheric Composition and Chemistry II Poster