



**U.S. Environmental Protection Agency
EPA STAR Progress Review Meeting:
Anthropogenic Influences on Organic Aerosol Formation
and Regional Climate Implications**

EPA at Research Triangle Park, Auditorium C111

Monday, March 14, 2016

9 a.m. **Tim Watkins**, Acting Deputy Director, National Exposure Research Laboratory
EPA Office of Research and Development
Welcome and Introduction

9:15 a.m. Background on the campaigns and new measurements of polar aerosols and water in the Southeast

Barbara Turpin, University of North Carolina - Chapel Hill

Anmarie Carlton, Rutgers University

[Organic Aerosol Formation in the Humid, Photochemically-active Southeastern US: SOAS Experiments and Simulations](#)

10:15 a.m. **Break**

10:35 a.m. The role of nitrogen compounds and nighttime chemistry

Nga Lee Ng, Georgia Institute of Technology

[The Role of Nitrate Radicals \(NO₃\) in Aerosol Life Cycle: Secondary Organic Aerosol Formation and Aging of Atmospheric Organic Aerosols](#)

Juliane Fry, Reed College

[Anthropogenic Influence on Biogenic VOC Oxidation: The Role of NO_x Pollution in Secondary Organic Aerosol Production in the Southeast U.S.](#)

11:35 a.m. **Joost de Gouw**, NOAA Earth System Research Laboratory

Anthropogenic and Biogenic Emissions, and their Contributions to Summertime Haze in the Southeast U.S.: Results from the NOAA SENEX Study in 2013

12 p.m. **Lunch**

12:30 p.m. Optional brownbag session with **Athanasios Nenes** (Georgia Institute of Technology) regarding the recent *Nature Geoscience* paper "[High Aerosol Acidity Despite Declining Atmospheric Sulfate Concentrations Over the Past 15 Years](#)"

1 p.m. **Poster Session**

2 p.m. **Break**

2:20 p.m. SOA from isoprene-derived epoxides, organosulfates, and particle functional groups at Look Rook, TN

Jason Surratt, University of North Carolina - Chapel Hill
[Impacts of Anthropogenic Emissions in the Southeastern U.S. on Heterogeneous Chemistry of Isoprene-Derived Epoxides Leading to Secondary Organic Aerosol Formation](#)

Lynn Russell, University of California - San Diego,
Paul Ziemann, University of Colorado - Boulder
[Using Particle Functional Group Composition to Identify and Quantify the Effects of Anthropogenic Emissions on Biogenic Secondary Organic Aerosol](#)

3:20 p.m. Break

3:40 p.m. **Elizabeth Stone**, University of Iowa
[Sources and Radiative Properties of Organosulfates in the Atmosphere](#)

4:20 p.m. **Brent Williams**, Washington University
[Novel Measurements of Volatility- and Polarity-Separated Organic Aerosol Composition and Associated Hygroscopicity to Investigate the Influence of Mixed Anthropogenic-Biogenic Emissions on Atmospheric Aging Processes](#)

5 p.m. **Conclude Day 1**

7 p.m. Optional group dinner at Carmen's Cuban Café, 108 Factory Shops Rd., Morrisville, NC 27560
Shuttle from the Hyatt Place RDU will be available

Tuesday, March 15, 2016

9 a.m. **Sherri Hunt**, EPA Office of Research and Development, National Center for Environmental Research
Welcome Back

9:15 a.m. **Spyros Pandis**, Carnegie Mellon University
Neil Donahue, Carnegie Mellon University
[Sensitivity of Organic Aerosol Concentrations and Forcing to Anthropogenic Emissions](#)

10 a.m. **Havala Pye**, EPA Office of Research and Development, National Exposure Research Laboratory
Kirk Baker, EPA Office of Air and Radiation, Office of Air Quality Planning and Standards
Using SOAS & related field study data for scientific and regulatory modeling

10:40 a.m. **Break**

11 a.m. Oxidative capacity of the pollution mixture

Saewung Kim, University of California - Irvine
[Unaccountably High OH Concentration and Short OH Lifetime - An Attempt for a Reconciliation](#)

Frank Keutsch, Harvard University
[Assessing anthropogenic impact on secondary pollutant formation in the South Eastern US via airborne formaldehyde measurements](#)

12 p.m. **Lunch**

1 p.m. Measurements aloft and at ground level – what can we learn from vertical distributions?

John Mak, Stony Brook University

Allen Goldstein, University of California – Berkeley

Alex Guenther, National Center for Atmospheric Research

[Emission, Fate, and Contribution of Biogenic Volatile Organic Compounds to Organic Aerosol Formation in the Presence of Anthropogenic Pollution: Measurements and Modeling during SOAS](#)

Steve Bertman, Western Michigan University

Kerri Pratt, University of Michigan

John Seeley, Oakland University

Paul Shepson, Purdue University

Tim Starn, West Chester University of Pennsylvania

[Processing of Biogenic Organics at and near the Ground](#)

2 p.m. **Break**

2:20 p.m. Measurements of climatic properties of SOA

Athanasios Nenes, Georgia Institute of Technology

[Cloud Condensation Nuclei Measurements During the SENEX 2013 Campaign: Observations, Analysis and Impacts](#)

Andre Khlystov, Desert Research Institute

R. Subramanian, Carnegie Mellon University

[Aerosol Optical Properties and Biogenic SOA: Effect on Hygroscopic Properties and Light Absorption](#)

3:20 p.m. **Stefanie Sarnat**, Emory University

Health Effects of Organic Aerosols: Results from the Southeastern Center for Air Pollution and Epidemiology

3:50 p.m. **Closing**

4 p.m. **Adjourn**