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## ***PLATFORM PRESENTATIONS***

This section lists all platform presentations that were presented at the meeting and provides links to those presentations for which electronic files were provided by the investigators. All available posters have been converted to pdf files.

### **Wednesday, February 25**

Wanda Ferrell, Acting Director, Climate and Environmental Sciences Division, DOE: [Climate and Environmental Science Division: Status and Future Directions](#)

Ashley Williamson, DOE Program Manager for ASP: [ASP Highlights](#)

Stephen Schwartz, ASP Chief Scientist: [Aerosol Forcing and Climate Change: SAP 2.3](#)

Ralph Kahn, NASA Goddard: [\(Keynote Presentation\) Satellite Aerosol Measurements -- One Piece of the Climate Forcing Picture](#)

Jeff Gaffney: [Overview of MAX-Mex](#)

Nancy A. Marley and Jeffrey S. Gaffney: [Biomass Burning Impacts on Aerosol Absorption Exponents](#)

C. Corr, N. Krotkov, Sasha Madronich, J. Slusser, B. Holben, W. Gao, J. Flynn, B. Lefer, and S. Kreidenweis: [Retrieval of Aerosol Single Scattering Albedo at Ultraviolet Wavelengths at the T1 Site During MILAGRO](#)

Ryan C. Moffet, T. R. Henn, A. V. Tivanski, R. J. Hopkins, Y. Desyaterik, J. Fast, J. Barnard, V. Shutthanandan, A. Laskin, and M. K. Gilles: [Microscopic Characterization of Carbonaceous Aerosol Aging in the Outflow from Mexico City](#)

J. C. Doran, J. C. Barnard, and Jerome D. Fast: [Evidence of Increasing Specific Absorption Downwind of Mexico City](#)

Jerome D. Fast, A. Aiken, J. Allen, L. Alexander, T. Campos, M. Canagaratna, E. Chapman, P. DeCarlo, B. de Foy, J. Gaffney, J. de Gouw, J. C. Doran, L. Emmons, A. Hodzic, S. Herndon, G. Huey, J. Jayne, J. Jimenez, L. Kleinman, W. Kuster, N. Marley, C. Ochoa, T. Onasch, M. Pekour, L. Russell, C. Song, I. M. Ulbrich, C. Warneke, D. Welsh-Bon, C. Wiedinmyer, D. Worsnop, X.-Y. Yu, and R. Zaveri: [Utilizing AMS Data and PMF Analysis to Assess Regional Simulations of POA from Anthropogenic and Biomass Burning Sources](#)

Rahul A. Zaveri: [Contributions of Urban, Biomass Burning and Secondary Organic Aerosols Near Mexico City During MILAGRO 2006](#)

Larry Kleinman: [Time Dependence of Aerosol Properties over the Mexico City Plateau: Parts 1 - 4](#)

William I. Gustafson Jr., Yun Qian, and Jerome D. Fast: [Towards Understanding and Quantifying Subgrid-Scale Processes for Global Aerosol Modeling](#)

Jim Barnard, Jerome Fast, Lupita Paredes-Miranda, and Pat Arnott: [Closure on the Single Scattering Albedo in the WRF-Chem Framework Using Data from the MILAGRO Campaign](#)

Jerome Fast: [ASP Modeling Report](#)

Ashley Williamson: [ASP-ARM Science Plan -- Plan and Charge to the Science Team](#)

Tim Onasch: [Collaborative Aerosol Research](#)

Andrew Freedman, Timothy B. Onasch, and Paul L. Kebebian: [Particulate Extinction Monitoring Using Cavity Attenuated Phase Shift Spectroscopy \(CAPS\)](#)

Arthur Sedlacek: [Light Absorption by Soot](#)

Tim Onasch: [Effect of Oxidation on CCN Activity and Chemical Composition of Soot and DOP Particles](#)

Barbara Finlayson-Pitts, M. L. Alexander, E. Bruns, M. J. Ezell, D. Imre, S. N. Johnson, V. Perraud, Y. Yu and A. Zelenyuk: [Organic Nitrates](#)

N. Meskhidze, Y. Zhang, J. Xu, B. Gantt, and D. Kamykowski: [Effect of Marine Biogenic Organic Aerosols on Clouds: CAM/MIRAGE Study](#)

Breakout Session: ASP Future Directions

[Group 1](#)

[Group 2](#)

[Group 3](#)

## Thursday, February 26

Peter Buseck, Arizona State University: (Keynote Presentation) [Aerosol Particles as Viewed by Transmission Electron Microscopy](#)

Larry Berg, Carl Berkowitz, John Hubbe, John Ogren, Elisabeth Andrews, and Yin-Nan Lee: [Changes to Cloud Microphysics and Aerosol Properties in an Urban Plume](#)

Liz Alexander: [Characterization of Particles Coincident with Isoprene Plumes Near Oklahoma City During the 2007 Cumulus Humilis Aerosol Processing Study \(CHAPS\)](#)

Richard Ferrare, Marian Clayton, Wenying Su, Dave Turner, Chris Hostetler, John Hair, Anthony Cook, David Harper, Ray Rogers, Mike Obland, Greg Schuster, Norm Loeb, Rob Newsom, Chitra Sivaraman, Haf Jonsson, and Larry Berg: [Observations of Cloud-Aerosol Halos During CHAPS/CLASIC](#)

Mikhail Ovtchinnikov and Richard Easter: [Changes in Aerosol Size Distribution Due to Aqueous-Phase Oxidation of SO<sub>2</sub> in Nonprecipitating Stratocumulus Clouds](#)

Asit Ray: [Deliquescence, Growth and Recrystallization Characteristics of Microstructured Aerosols](#)

Steve Ghan: [Overview of the ISDAC Project](#)

Alla Zelenyuk: [The Properties of Individual Aerosol Particles Sampled Over North Slope of Alaska during ISDAC](#)

Ryan C. Moffet, M. K. Gilles, and Alexander Laskin: [Airborne STXM, SEM and CCN Measurements in the Arctic during the ISDAC Campaign](#)

Manvendra K. Dubey, C. Mazzolenni, A. Lopez-Garcia, A. Zelenyuk, G. McFarquar, S. Ghan, V. Ramanathan, and S. Yoon, and ISDAC and CAPMEX Teams: [3 Laser Photo-Acoustic Observations Aloft Alaska and Downwind China: Linking Aerosol Chemistry to Optical Properties](#)

Peter Daum: [Overview of VOCALS and Some Initial Results](#)

L. Kleinman, P. Daum, L. Alexander, J. Hubbe, J. Jayne, A. Laskin, Y.-N. Lee, R. Moffet, G. Senum, S. Springston, and J. Wang: [A Preliminary Look at Aerosol and Cloud Droplet Size Distributions During VOCALS](#)

Yin-Nan Lee, S. Springston, J. Jayne, J. Wang, J. Hubbe, G. Senum, L. Alexander, L. Kleinman, and P. Daum: [Aerosol Chemical Composition and Source Characterization During 2008 VOCALS](#)

Gunnar Senum: [Cloud Microphysics with BNL High Speed CAPS Probe](#)

Stephen Springston: [The Tortoise and the Hare, Blending Instrument Outputs](#)

Alexander Laskin, Ryan Moffet, and Mary Gilles: [Microscopy Analysis of Mineral Dust From the Area of](#)

[VOCALS Study](#)

Breakout Session: ASP Science Topics

[Aerosol Life Cycle](#)

[Aerosol Direct Effects](#)

[Aerosol-Cloud Interactions](#)

**Friday, February 27**

Phil Rasch, PNNL: [\(Keynote Presentation\) What Do GCM Parameterizations of Aerosol Forcing of Climate Change Need from Observational and Process Studies?](#)

Rahul Zaveri: [Carbonaceous Aerosols and Radiative Effects Study \(CARES\)](#)

Joost de Gouw: [Overview on CalNex 2010 \(Research at the Nexus of Air Quality and Climate Change\)](#)

John Seinfeld: [Understanding Secondary Organic Aerosol \(SOA\) Formation from Lower-Volatility Precursors: Photooxidation of Naphthalenes and Alkyl-Naphthalenes](#)

Chen Song, Rahul A. Zaveri, M. Lizabeth Alexander, Joel A. Thornton, Sasha Madronich, John V. Ortega, David A. Maughan, Jerome Birnbaum, Xiao-Ying Yu, Alexander Laskin, Alla Zelenyuk, Matt Newburn, and Shaun Garland: [Effects of Preexisting Organic Seed Aerosols on Secondary Organic Aerosol Formation Yield](#)

Cathy Chuang: [Global Modeling of Atmospheric Aerosols Including SOA](#)

Barbara Ervens: [Recent Developments in Organic Aerosol Modeling](#)

Qi Zhang: [An Integrated View of Organic Aerosol in Urban, Rural and Remote Atmospheres with AMS](#)

Xiao-Ying Yu and James Cowin: [Cloud Microstructure via the Fast Time-Resolved Aerosol Collector "Fast-TRAC"](#)

Julia Laskin, Jeffrey Smith, and Alexander Laskin: [Molecular Characterization of Biomass Burning Aerosols Using High Resolution Mass Spectrometry](#)

Xiao-Ying Yu, Robert A. Cary, N. Laulainen, J. J. Bauer, and C. M. Berkowitz: [Characterization of the Sunset Semi-Continuous Carbon Aerosol Analyzer](#)

Scot Martin: [CCN Activation of Secondary Organic Aerosol -- A Focus on Isoprene](#)

Ernie Lewis and Stephen E. Schwartz: [Activation of Cloud Nuclei: Importance of Nonideality and Effect of Insoluble Core](#)

Sonia Kreidenweis, Markus Petters, Paul Ziemann, Roger Atkinson, and Janet Arey: [Hygroscopicity and CCN Activity of Secondary and Processed Primary Organic Aerosols](#)

Simon L. Clegg, and A. S. Wexler: [Process Models of the Equilibrium Size and State of Organic/Inorganic Aerosols](#)

Brian Barkey, Hwajin Kim, and Suzanne Paulson: [Optical Properties of Non-Absorbing Secondary Organic Aerosols Grown from Various Precursors](#)

Yangang Liu: [Relationship Between Refractive Index and Density and Consistency of Mixing Rules](#)

Robert McGraw and Renyi Zhang: [Nucleation of Terrestrial Biogenic/Anthropogenic Aerosols](#)

Jian Wang: [Fast Integrated Mobility Spectrometer With Enhanced Dynamic Size Range](#)

Pete Daum: [Winter Clear Air Study](#)

Steve Ghan: [ASP participation in the NSF Deep Convective Clouds and Chemistry \(DC3\)](#)

Rao Kotamarthi: [Ganges Valley Aerosol Experiment \(GVAX\), Feb-April, 2011](#)


Paul Doskey: [The Midwest Aerosol Production Experiment \(MAPEX\)](#)

Carl Berkowitz: [Evolution of the Mixing State of Aerosols Campaign \(EMSAC\), Summer 2011](#)

Jeff Gaffney: [Biomass Burning Aerosol Field Study: Sugar Cane Debris and Prairie Restoration Controlled Burns Potential Sites](#)

Steve Schwartz: [Direct Determination of Aerosol Forcings at ARM Sites](#)

End of ASP Science Team Meeting

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## ***POSTER PRESENTATIONS***

This section lists all posters that were presented at the meeting and provides links to those presentations for which electronic files were provided by the investigators. All available posters have been converted to pdf files.

Barkey, Brian; Hwajin Kim, and Suzanne Paulson  
*Optical Properties of Secondary Organic Aerosols Grown from Various Precursors*

Berg, Larry; Carl Berkowitz, John Hubbe, John Ogren, Elisabeth Andrews, and Yin-Nan Lee  
*Changes to Cloud Microphysics and Aerosol Properties in an Urban Plume*

Brem, Benjamin; Mark J. Rood, and Tami C. Bond  
[Mixed Organic/Inorganic Aerosols at High Relative Humidities](#)

Bruns, E. A.; M. L. Alexander, V. Perraud, Y. Yu, M. J. Ezell, S. N. Johnson, A. Zellenyuk, D. Imre, and B. J. Finlayson-Pitts  
*Characterization of Atmospheric Organic Nitrates in Particles*

Canagaratna, Manjula; Nga L. Ng, Ingrid Ulbrich, Qi Zhang, Jose Jimenez, Jesse Kroll, Timothy Onasch, Scott Herndon, Ezra Wood, John Jayne, Jian Tian, and Douglas Worsnop  
*Positive Matrix Factorization (PMF) Analysis of Analysis of Organic Components in Urban Aerosol Measured With Aerosol Mass Spectrometry*

Chuang, Catherine; Daniel Bergmann, and Philip Cameron-Smith  
*Global Modeling of Atmospheric Aerosols Including SOA*

Cowin, James; and Xiao-Ying Yu  
*Probing Aerosols in Cloud Microstructures With the Single Particle "Fast-TRAC"*

Ervens, Barbara  
*Recent Developments in Organic Aerosol Modeling*

Fast, J. D.; L. K. Berg, M. Ovtchinnikov, W. I. Gustafson, Jr., E. G. Chapman, and R. C. Easter  
*Interactions of Natural and Anthropogenic Aerosols Within the Marine Stratocumulus During the 2008 VOCALS Field Campaign: Regional and Cloud-Resolving Modeling*

Fast, J. D.; W. I. Gustafson Jr., E. G. Chapman, R. C. Easter, and J. P. Rishel  
*Using the 2006 MILAGRO Field Campaign as an Aerosol Modeling Testbed*

Ferrare, Richard; Chris Hostetler, John Hair, Anthony Cook, David Harper, Mike Obland, Ray Rogers, Sharon Burton, Brian Cairns, Kirk Knobelspiesse, Matteo Ottaviani, Peter Colarco, and John Barrick  
[HSRL Measurements of Aerosols During ARCTAS/ISDAC](#)

Ferrare, Richard; Marian Clayton, Wenying Su, Dave Turner, Chris Hostetler, John Hair, Anthony Cook, David Harper, Ray Rogers, Mike Obland, Greg Schuster, Norm Loeb, Rob Newsom, Chitra Sivaraman, Haf Jonsson, and Larry Berg  
[Lidar Observations of Aerosols Near Clouds during CHAPS/CLASIC](#)

Fortner, Ed; Tim Onasch, Brent Williams, Manjula Canagaratna, Nga L.Ng, John Jayne, Jesse Kroll, Doug Worsnop, Joel Kimmel, Donna Sueper, Nathan Kreisberg, Susanne Hering, and Allen Goldstein  
*The Development of Thermodenuder and TAG Technologies for Application with Aerosol Mass Spectrometry*

Freedman, Arthur; Timothy B. Onasch, and Paul L. Keibian  
*CAPS Particle Extinction Monitor*

Gaffney, Jeffrey S.; and Nancy A. Marley  
[Absorption of Visible and Long-Wave Radiation by Primary and Secondary Biogenic Aerosols](#)

Gantt, B.; N. Meskhidze, and D. Kamykowski  
*A New Quantification of Isoprene and Primary Organic Aerosol Emissions from the World's Oceans*

Gustafson, William I., Jr.; Yun Qian, and Jerome D. Fast  
[Towards Understanding and Quantifying Subgrid-Scale Processes for Global Aerosol Modeling](#)

Gyawali, Madhu; W. Patrick Arnott, Ian Arnold, Kristin Lewis, Guadalupe Paredes, Hans Moosmüller, Rajan Chakrabarty, Greg Kok, John Walker, and Darrel Baumgardner  
[Wavelength Dependence of Aerosol Light Absorption](#)

Kuang, Chongai; Peter McMurry and Alon McCormick  
*Atmospheric Nucleation: Mechanisms, Measurements and Dynamics*

Lewis, Ernie R.; Robert L. McGraw, Scot T. Martin, Mackenzie Smith, George Biskos, and Amanda L. Mifflin  
[Dependence of Deliquescence Relative Humidity of Inorganic Salts on Particle Size](#)

Marley, Nancy A.; Kristy L. Kelley, Pramila S. Kilaparty, and Jeffrey S. Gaffney  
[Light Absorbing Aerosols in Mexico City](#)

Mazzoleni, Claudio; M. Dubey, E. Cross, T. Onasch, and P. Davidovits  
[Electron Microscopy and 3-Wavelengths Absorption and Scattering Measurements of Soot from the Boston College Experiment](#)

Mazzoleni, Lynn R.; Xinhua Shen, Brandie Ehrmann, and Jeffrey L. Collett, Jr.  
[Characterization of Atmospheric Organic Matter by Ultra-high Resolution FT-Ion Cyclotron Resonance Mass Spectrometry: Assignment of 2000 Unique Empirical Formulas](#)

McGraw, Robert, and R. Zhang  
[Nucleation and Growth of Terrestrial Biogenic/Anthropogenic Aerosols](#)

McMurry, Peter; Chongai Kuang, Kelley Barsanti, Jim Smith, Jun Zhao, and Fred Eisele  
*Anatomy of a Nucleation Event*

Meskhidze, N.; J. Xu, Y. Zhang, B. Gantt, S. Ghan, A. Nenes, X. Liu, R. Easter, and R. Zaveri  
*Effect of Marine Biogenic Organic Aerosols on Cloud Properties: Community Atmosphere Model (CAM) Study*

Perraud, Veronique; Yong Yu, Emily A. Bruns, Michael J. Ezell, Stanley N. Johnson, M. Lizabeth Alexander, Alla Zelenyuk, Dan Imre, and Barbara J. Finlayson-Pitts  
[Secondary Organic Aerosol \(SOA\) Formation From the NO<sub>3</sub> Radical Oxidation of alpha-pinene](#)

Petters, M. D.; S. M. Kreidenweis, P. J. Ziemann, A.J. Prenni, A. Faulhaber, C. M. Carrico, Y. Lim, A. Matsunaga, R. Atkinson, and J. Arey  
*Hygroscopicity of Organic Aerosol*

Rogers, Raymond R.; John W. Hair, Chris A. Hostetler, Richard A. Ferrare, Michael D. Obland, Anthony L. Cook, David B. Harper, Sharon P. Burton, Yohei Shinozuka, Cameron S. McNaughton, Antony D. Clarke, Jens Redemann, Philip B. Russell, John M. Livingston, and Lawrence I. Kleinman  
*NASA LaRC Airborne High Spectral Resolution Lidar Aerosol Measurements During MILAGRO: Observations and Intercomparisons*

Sedlacek, Arthur  
[Light Absorption by Soot](#)

Senum, Gunnar I.; Stephen Springston, and Peter Daum  
*Cloud Microphysics with the BNL High-Speed Caps Probe*

Smith, Mackenzie L.; Ernie R. Lewis, George Biskos, Amanda L. Mifflin, Robert L. McGraw, and Scot T. Martin  
*Hygroscopic Growth of Inorganic Nanoparticles*

Song, Chen; Rahul A. Zaveri, M. Lizabeth Alexander, Joel A. Thornton, Sasha Madronich, John V. Ortega, David A. Maughan, Jerome Birnbaum, Xiao-Ying Yu, Alexander Laskin, Alla Zelenyuk, Matt Newburn, and Shaun Garland  
*Effects of Preexisting Organic Seed Aerosols on Secondary Organic Aerosol Formation Yield*


Trimborn, Achim M.; Timothy B. Onasch, John T. Jayne, Leah Williams, Gregory L. Kok, Darrel Baumgardner, Eben Cross, Billy Wrobel, Adam Ahern, Paul Davidowitz, and Douglas R. Worsnop  
*Measuring the Chemical Composition of Soot Containing Particles*

Yu, Xiao-Ying; Larry Berg, Carl Berkowitz, Liz Alexander, Yin-Nan Lee, John Ogren, and Betsy Andrews  
*Aerosol and Trace Gas Processing by Clouds During the Cumulus Humilis Aerosol Processing Study (CHAPS)*

Yu, Xiao-Ying; R. A. Cary, and N. Laulainen  
*Primary and Secondary Organic Carbon Downwind of Mexico City*

Zaveri, Rahul A.; Chen Song, M. Lizabeth Alexander, YuLong Xie, Xiao-Ying Yu, Daniel Welsh-Bon, Carsten Warneke, Joost de Gouw, Manjula Canagaratna, Timothy B. Onasch, John T. Jayne, Douglas R. Worsnop, and Greg Huey  
*Contributions of Urban, Biomass Burning and Secondary Organic Aerosols Near Mexico City During MILAGRO 2006*

Zhang, Qi  
[An Integrated View of Organic Aerosols \(OA\) in Urban, Rural and Remote Atmospheres with Aerosol Mass Spectrometer](#)

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