

Monday, December 12 Talks:

Lamb: Talk Dec. 12 A11Q-06 Moscone West - 3010 9:15 am- 9:30 am
“HD-SP2 Measurements of Black Carbon Containing Aerosols in South Korea during KORUS-AQ”
K. Lamb; A. Perring; J. Ahn; J. Schwarz

Gao: Invited Talk Dec. 12 A12E-01 Moscone West - 3012 10:20 am- 10:35 am
“Overview of the NASA Pacific Oxidants, Sulfur, Ice, Dehydration, and cONvection (POSIDON) Experiment (Invited)”
R. Gao; E. Jensen; K. Rosenlof; E. Atlas; M. Avery; T. Bui; P. Colarco; G. Diskin; J. Elkins; E. Hintsa; D. Hurst; P. Lawson; S. Liu; F. Moore; L. Pfister; A. Rollins; S. Schauffer; M. Schoberl; T. Thornberry; R. Ueyama; J. Ulanowski; S. Woods

Yu: Talk Dec. 12 A12E-07 Moscone West - 3012 11:50 am- 12:05 pm
“Asian Summer Monsoon Pollutes the Northern Hemispheric Stratosphere”
P. Yu; R. Gao; K. Rosenlof; H. Telg; S. Liu; B. Zhixuan; J. Bian

Yamaguchi: Talk Dec. 12 A12A-07 Moscone West - 3008 11:50 am- 12:05 pm
“Framework for Improvement by Vertical Enhancement: A simple approach to improve low and high clouds in large-scale models”
T. Yamaguchi; G. Feingold; V. Larson

Rollins: Talk Dec. 12 A12E-08 Moscone West - 3012 12:05 pm- 12:20 pm
“In-Situ Observations Define the Role of Sulfur Dioxide in Stratospheric Aerosol Formation”
A. Rollins; T. Thornberry, L. Watts; P. Yu; K. Rosenlof; M. Mills; E. Baumann; F. Giorgetta; T. Bui; M. Hoepfner; K. Walker; C. Boone; P. Bernath; P. Colarco; P. Newman; D. Fahey; R. Gao

Parrish: Talk Dec. 12 A13J-07 Moscone West - 3010 15:10 pm- 15:25 pm
“Observationally based estimates of U.S. background ozone contributions to NAAQS exceedances in California urban areas”
D. Parrish; L. Young; M. Newman; K. Aikin; T. Ryerson

Monday, December 12 Posters:

Glassmeier: Poster Dec. 12 A11J-0147 Moscone South - Poster Hall 8am- 12:20 pm
“Constraining Aerosol-Cloud-Precipitation Interactions of Orographic Mixed-Phase Clouds with Trajectory Budgets”

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F. Glassmeier; U. Lohmann

Thompson: Poster Dec. 12 A11L-0171 Moscone South - Poster Hall 8 am - 12:20 pm

“Global Airborne Observations of Nitrogen Oxides and Ozone from the Atmospheric Tomography Mission”

C. Thompson; J. Peischl; T. Ryerson

McKeen: Poster Dec. 12 A11M-0181 Moscone South- Poster Hall 8 am – 12:20 pm

“Using Potential Vorticity to Represent the Effect of Stratosphere-Troposphere Exchange on Vertical Ozone Distributions in the Front Range During the FRAPPE 2014 Field Campaign.”

S. McKeen; Y. Cui; R. Ahmadov; W. Angevine; G. Pfister; B. Peirce; J. Xing; R. Mathur

Langford: Poster Dec. 12 A11M-0183 Moscone South- Poster Hall 8 am – 12:20 pm

“Vertical Distributions of Ozone above the San Joaquin Valley Measured by the NOAA TOPAZ lidar during the California Baseline Ozone Transport Study”

A. Langford; R. Alvarez; G. Kirgis; C. Senf; A. Weickmann

Liu: Poster Dec. 12 A13G-0360 Moscone South- Poster Hall 1:40 pm- 6 pm

“Probing the Asian Tropopause Aerosol Layer during Summer Monsoon Using in situ Measurements”

S. Liu; P. Yu; H. Telg; B. Zhixuan; K. Rosenlof; R. Gao

Thornberry: Poster Dec. 12 A13G-0370 Moscone South - Poster Hall 1:40 pm- 6 pm

“The Net Efficiency of Dehydration in the TTL Inferred from In Situ Measurements and Back Trajectory Analysis”

T. Thornberry; A. Rollins; L. Pfister; R. Ueyama; S. Davis; T. Bui

Perring: Poster Dec. 12 A13H-0389 Moscone South - Poster Hall 1:40 pm- 6 pm

“Vertical distributions of fluorescent aerosol over the Eastern U.S.”

A. Perring; E. Robinson; J. Schwarz; R. Gao

Fibiger: Poster Dec. 12 B13F-0683 Moscone South - Poster Hall 1:40 pm- 6 pm

“Untangling the Causes of Variation in ClNO₂ Yield from the WINTER Campaign”

D. Fibiger; F. Lopez-Hilfiker; E. McDuffie; W. Dube; B. Lee; C. Ebben; T. Sparks; P. Wooldridge; A. Weinheimer; D. Montzka; J. Schroder; P. Campuzano-Jost; H. Guo; A. Sullivan; J. Dibb; R. Weber; J. Jimenez; R. Cohen; J. Thornton; S. Brown

Tuesday, December 13 Talks:

Glassmeier: Talk	Dec. 13	A21A-06	Moscone West - 3001	9:15 am- 9:30 am
"A Model-Based Investigation of Charge-Generation According to the Relative Diffusional Growth Rate Theory"				
F. Glassmeier; L. Arnold; U. Lohmann; R. Diericher; M. Paukert				

Peischl: Talk	Dec. 13	A22G-07	Moscone West - 3008	11:50 am- 12:05pm
"Methane and carbon dioxide emissions from selected U.S. coal production regions and coal-fired power plants"				
J. Peischl; T. Ryerson; M. Trainer				

Eilerman: Talk	Dec. 13	A23P-03	Moscone West - 3008	2:10 pm- 2:25 pm
"Using mobile laboratory and aircraft measurements to characterize feedlot emissions and their contribution to atmospheric methane over the Denver-Julesburg Basin"				
S. Eilerman; J. Peischl; A. Neuman; K. Aikin; M. Trainer; T. Ryerson				

Yuan: Talk	Dec. 13	A23P-04	Moscone West - 3008	2:25 pm – 2:40 pm
"Emissions of Volatile Organic Compounds (VOCs) from Animal Husbandry: Chemical Compositions, Separation of Sources and Animal Types"				
B. Yuan; M. Coggon; A. Koss; C. Warneke; S. Eilerman; J. Neuman; J. Peischl; K. Aikin; T. Ryerson; J. de Gouw				

McDonald: Invited Talk	Dec. 13	A24F-03	Moscone West - 3008	4:30 pm- 4:45 pm
"Quantifying Volatile Organic Compound Emissions from Solvents and their Impacts on Urban Air Quality" (Invited)				
B. McDonald; J. de Gouw; J. Gilman; C. Cappa; G. Frost; A. Goldstein; S. Janthar; S. Kim; S. McKeen; J. Roberts; M. Trainer				

Tuesday, December 13 Posters:

Frost: Poster	Dec. 13	A21C-0038	Moscone South - Poster Hall	8am-12:20 pm
"Analysis of Long-term Observations of NO _x and CO in Megacities and Application to Constraining Emissions Inventories"				
G. Frost; B. Hassler; B. McDonald; A. Borbon; D. Carslaw; K. Civerolo; C. Granier; P. Monks; S. Monks; D. Parrish; I. Pollack; K. Rosenlof; T. Ryerson; E. von Schneidmesser; M. Trainer				

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Roberts: Poster Dec. 13 A23D-0600 Moscone South - Poster Hall 1:40 pm- 6 pm
“The FIREX 2016 Missoula Fire Lab Study”
J. Roberts; R. Yokelson; C. Warneke; A. Middlebrook; J. Schwarz;

Stockwell: Poster Dec. 13 B23D-0616 Moscone South - Poster Hall 1:40 pm- 6 pm
“Development and Deployment of a Particle-into-Liquid sampling - Electrospray Ionization Mass Spectrometer (PiLs-ESI/MS) for Characterization of Water-Soluble Biomass Burning Aerosols”
C. Stockwell; B. Wiltkowski; R. Talukdar; A. Middlebrook; J. Roberts

Wednesday, December 14 Talks:

Papanastasiou: Talk Dec. 14 A31L-08 Moscone West- 3008 9:45 am- 10 am
“The atmospheric degradation of methyl isocyanate (CH ₃ NCO), a toxic substance”
D. Papanastasiou; F. Bernard; J. Burkholder

Portmann: Talk Dec. 14 GC34B-08 Moscone West - 3001 5:45 pm – 6 pm
“The Earth's Energy Budget Across CMIP5 Model”
R. Portmann; E. Larson

Wednesday, December 14 Posters:

Angevine: Poster Dec. 14 AIN31A-1746 Moscone South - Poster Hall 8am-12:20 pm
“Mid-tropospheric Spectral Length-scale Analysis of Many Constituents from Aircraft, Satellite and Model Results During the 2013 SENEX Field Study”
W. Angevine; S. McKeen; R. Ahmadov; G. Frost; S. Kim; Y. Cui; B. McDonald; M. Trainer; J. Holloway; T. Ryerson; J. Peischl; A. Gambarcota; C. Barnet; N. Smith; R. Pierce

Granier: Poster Dec. 14 A31B-0027 Moscone South- Poster Hall 8am- 12:20pm
“Evaluation of Emissions for Forecasting and Reanalyses of Air Quality in Asia”
C. Granier; E. Doumbia; L. Granier; K. Sindelarova; G. Frost; I. Bourar; C. Liousse; S. Dararas; T. Stavrakou

Burkholder: Poster Dec. 14 A33E-0265 Moscone South - Poster Hall 1:40 pm- 6pm
“Laboratory Study of the OH + Permethysiloxane (L ₂ , L ₃ , D ₃ , and D ₄) Reaction Rate Coefficients Between 240 and 370”
J. Burkholder; F. Bernard; V. Papadimitriou

Bernard: Poster Dec. 14 A33E-0268 Moscone South - Poster Hall 1:40 pm – 6 pm
“Radiative Efficiencies and Atmospheric Loss Processes of Atmospherically Persistent Perfluoroamines: $N(C_xF_{2x+1})_3$, $x = 2-5$ ”
F. Bernard; V. Papadimitriou; D. Papanastasiou; J. Burkholder

Womack: Poster Dec. 14 A33E-0274 Moscone South - Poster Hall 1:40 pm – 6 pm
“Characterizing Interferences in an NO _y Thermal Dissociation Inlet”
C. Womack; P. Veres; C. Brock; J. Neuman; S. Eilerman; K. Zarzana; W. Dube; R. Wild; P. Wooldridge; R. Cohen; S. Brown

Thursday, December 15 Talks:

Murphy: Talk Dec. 15 A41J-03 Moscone West - 3008 8:35 am – 8:37 am
“A Large Radiative Forcing by Stratospheric Sulfate and Organic Aerosol”
D. Murphy; P. Yu; K. Froyd; R. Gao; R. Portmann; B. Toon; K. Rosenlof

Cui: Talk Dec. 15 A42D-02 Moscone West - 3004 10:35 am- 10:50 am
" Top-down estimates of methane and nitrogen oxide emissions from shale gas production regions using aircraft measurements and a mesoscale Bayesian inversion system together with a flux ratio inversion technique”
Y. Cui; J. Brioude; W. Angevine; S. McKeen; D. Henze; N. Bousseres; Z. Liu; B. McDonald; J. Peischl; T. Ryerson; G. Frost; M. Trainer

Schwarz: Talk Dec. 15 GC42C-03 Moscone West – 3001 10:50 am- 11:05 am
"FIREX: Aerosol Science Priorities for the 2018 WP-3D Campaign”
J. Schwarz; J. Roberts; C. Warneke; R. Yokelson

Butler: Talk Dec. 15 A42B-03 Moscone West - 3008 10:55 am- 11:07 am
“Diagnosing ozone recovery using the O ₃ -N ₂ O relationship”
A. Butler; R. Gao; A. Maycock; R. Portmann; T. Thornberry; K. Rosenlof; D. Fahey

McDuffie: Talk Dec. 15 A42A-03 Moscone West - 3012 10:50 am – 11:05 am
“The Wintertime Fate of N ₂ O ₅ : Observations and Box Model Analysis for the 2015 WINTER Aircraft Campaign”
E. McDuffie; D. Fibiger; W. Dube; F. Lopez-Hilfiker; J. Thornton; V. Shah; L. Jaegle; H. Guo; R. Weber; P. Campuzano-Jost; J. Schroder; J. Jimenez; S. Brown

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Feingold: Invited Talk Dec. 15 A44E-02 Moscone West, 3010 4:15 pm- 4:30 pm
“Narrowing the Gap in Quantification of Aerosol-Cloud Radiative Effects” (Invited)
G. Feingold; A. McComiskey; T. Yamaguchi; J. Kazil; J. Johnson; K. Carslaw

Ervens: Talk Dec. 15 A44D-04 Moscone West, 3006 4:45 pm- 5 pm
“Parameterizations of aqSOA formation: Weaknesses and steps to improvements”
B. Ervens;

Thursday, December 15 Posters:

Davis: Poster Dec. 15 NG41B-1730 Moscone South - Poster Hall 8 am- 12:20 pm
“Stratospheric water vapor and ozone evaluation in reanalyses as part of the SPARC Reanalysis Intercomparison Project (S-RIP)”
S. Davis

Rosenlof: Poster Dec. 15 A43C-0227 Moscone South - Poster Hall 1:40 pm - 6 pm
“Lower stratospheric observations from aircraft and satellite during the 2015/2016 El Nino”
K. Rosenlof; M. Avery; S. Davis; R. Gao; T. Thornberry;

Ray: Poster Dec. 15 A43A-0184 Moscone South - Poster Hall 1:40 pm- 6 pm
“SF ₆ Lifetime Adjustment Based on Mesospheric Loss Measured in the Stratospheric Polar Vortex”
E. Ray; F. Moore; J. Elkins; K. Rosenlof; J. Laube; T. Rockmann; D. Marsh;

Kazil: Poster Dec. 15 A43B-0204 Moscone South - Poster Hall 1:40 pm- 6 pm
“Mesoscale Organization and the Stratocumulus Cloud Radiative Effect in a Changing Climate”
J. Kazil; G. Feingold; T. Yamaguchi

Friday, December 16 Talks:

Feingold: Invited Talk Dec 16 A51D-0094 Moscone West, 3006 8 am – 8:15 am
“Aerosol and cloud microphysics in cloud systems” (Invited)
G. Feingold; F. Glassmeier

Katich: Talk Dec 16 A51N-02 Moscone West, 3004 8:15 am – 8:30 am
“First Comparison of Remote Vertical Profiles of Refractory Black Carbon between the Atlantic and Pacific Basins on Global Scales”

J. Katich; J. Schwarz

Klinger: Talk	Dec 18	A52C-07	Moscone West, 3006	11:50 am – 12:05 pm
"Effects of 1D and 3D Thermal Radiation on Cloud Dynamics and Microphysics"				
C. Klinger; B. Mayer; F. Jakub; T. Zinner				

Friday December 16 Posters:

Kim: Poster	Dec. 16	A51D-0094	Moscone South- Poster Hall	8 am- 12:20 pm
"Assessing Anthropogenic Emissions of Volatile Organic Compounds using Satellite Retrievals of Formaldehyde"				
S. Kim; J. Gilman; J. Tsai; C. Warneke; S. McKeen; B. McDonald; V. Natraj; G. Frost; J. de Gouw; J. Stutz; M. Trainer				

Adler: Poster	Dec. 16	A51B-0025	Moscone South- Poster Hall	8 am- 12:20 pm
"A Design of a Novel Airborne Aerosol Spectrometer for Remote Sensing Validation"				
G. Adler; C. Brock; W. Dube; F. Erdesz; T. Gordon; D. Law; K. Manfred; B. Mason; R. McLaughlin; M. Richardson; N. Wagner; R. Washenfelder; D. Murphy				

Kupc: Poster	Dec. 16	A53C-0309	Moscone South- Poster Hall	1:40 pm- 6 pm
"Aerosol microphysical properties of the remote troposphere. Preliminary results from the first ATom airborne research experiment."				
A. Kupc; C. Williamson; C. Brock; K. Froyd, D. Murphy; M. Richardson; P. Campuzano-Jost; R. Commane; B. Daube; M. Dollner; J. Jimenez; B. Nault; J. Peischl; T. Ryerson; J. Schroder; C. Thompson; B. Weinzierl' S. Wofsy				

Brock: Poster	Dec. 16	A53C-0310	Moscone South- Poster Hall	1:40 pm- 6 pm
"Global Particle Size Distributions: Measurements during the Atmospheric Tomography (ATom) Project"				
C. Brock; C. Williamson; A. Kupc; K. Froyd; M. Richardson; B. Weinzierl; M. Dollner; H. Schuh; F. Erdesz				

** RED indicates a time conflict. **

** BLUE indicates an invited talk. **