

Air Quality: Science for Solutions 3

Utah State University (Logan, Utah)

Eccles Conference Center

Conference Agenda, March 28, 2019



10:30 AM	Randy Martin	Introductory Remarks
10:35	Chris Pennell	The Utah Division of Air Quality Research Initiative
10:50	Claire Leiser	The Effect of Air Pollution on Risk of Hospital Readmission and Death among Cardiac Patients in Utah's Medicare Population
11:10	Andy Nguyen	Cache Valley PM2.5 Activates Akt and Inflammatory Pathways and Increases Cell Proliferation in Human Lung Cells
11:30	Seth Lyman	Temporal Trends in Ozone Precursor Chemistry in the Uinta Basin
11:50	Anna Robertson	Comparison of Observed BTEX Emission Flux Estimates from Oil and Natural Gas Production Well Pads to Inventory-derived Estimates in the Uintah Basin
12:10 PM	Lunch & Poster Session I	
1:40	John Sohl	The AtmoSniffer version 0.4, a discussion of measurement priorities
2:00	Daniel Jones	Investigating the sources, contributions, and composition of dust in the Salt Lake region: an understudied contributor to PM2.5 and air quality
2:20	Adam Kochanski	Coupled fire-atmosphere modeling's new capabilities, challenges and opportunities in the context of air quality forecasting
2:40	Poster Session II	
3:20	Jesse Glisson	Estimating the Contribution of Woodsmoke to Winter-time PM levels along the Wasatch Front
3:40	Emily Burrell	Study of the Kinetics and Thermodynamics of New Particle Formation
4:00	Carrie Womack	An odd oxygen framework for wintertime ammonium nitrate aerosol pollution in Salt Lake Valley
4:20	Poster Awards	
4:30 PM	Adjourn Conference	

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Poster Session



Alex Lehr	Three-dimensional time evolution of aerosols during winter pollution events
Bruce Bugbee	The Cache Valley Atmospheric Mixing Project
Christopher Rapp	Measuring Aerosol Size Distributions During Persistent Cold Air Pool Events
Daniel Mendoza	Spatial Differences in Fine Particulate Matter and Ozone Exposure among Salt Lake County K-12 Schools and their Impact on Absences
Danielle Haverkamp	High altitude measurement of atmospheric aerosols using image analysis
Derek Mallia	Can coupled fire-atmosphere models predict smoke-induced inversions from wildfires?
Eric Riedel	Speed Limits and their Effect on Air Quality
Huy Tran	Improving WRF Model Performance using Satellite Data Assimilation Technique for the Uintah Basin
Kamaljeet Kaur	Effect of Collection Methods on Combustion Particle Physicochemical Properties and their Biological Response in Human Macrophage and Lung Epithelial-Like Cells
Kerry Kelly	Identifying Sources of Dichloromethane and Formaldehyde in the Bountiful Region
Logan Mitchell	Updates from the TRAX air quality project: measuring PM _{2.5} from a mobile platform and air quality spatial patterns during the 2018/2019 winter season
Makenzie Holmes	Distribution of 67 organic compounds throughout the Uintah Basin, Utah
Mark Miller	Quantum interband cascade superlattice light-emitting diodes for environmental and health sensing
Nitish Bhardwaj	Source Apportionment Study in the Bountiful Region
Philip Lundrigan	Developing an Untethered Network of Low-Power Air Quality Sensors
Le-Thuy Tran	The Utah PRISMS Informatics Ecosystem: An Infrastructure for Generating and Utilizing Exposomes for Translational Research
Randy Martin	Wasatch Front Ammonia and Chloride Observations (WaFACOs): Preliminary Results
Ryan Lawton	A miniaturized Multi Sensor Array for balloon-borne air measurements
Sebastian Hoch	Inter-basin Transport, Canyon Circulations, and Lake Breezes: Atmospheric Mixing and Air Mass Exchange Processes and their Effect on Pollution Concentrations in Utah's Salt Lake Valley
Shruti Hegde	Nanostructured TiO ₂ Sensor for Detection of Benzene
Steve Sargent	Evaluation of low-cost CO ₂ sensors to study atmospheric mixing in a mountain valley
Tofigh Sayahi	Field and Laboratory Evaluation of Plantower PMS Low-Cost Particulate Matter Sensors
Trang Tran	Impacts of observational nudging with sounding data on WRF performance in simulating vertical profiles and cloudiness in Uintah Basin's case study Jan 31- Feb 4, 2013
Trevor O'Neil	Speciation of organics emitted from oil and gas liquid storage tanks
Yi Rao	Effects of Relative Humidity and Salt-Out on Interfacial Behaviors of Molecules on Aerosols