



AIR QUALITY

Science for Solutions

Salt Lake City Public Library

210 E 400 S, Salt Lake City

Thursday March 30, 10:30 AM - 5 PM

Time	Presentations	Presenter
10:30 AM	Introductory Remarks	Kerry Kelly
10:35 AM	Residential Wood-burning Emissions in Utah's Valleys	Nancy Daher
10:55 AM	Use of a GC-MS Monitor for In-Field Detection of Fine Particulate Organic Compounds in Source Apportionment	Delbert Eatough
11:15 AM	Source Regions and Elemental Composition of PM10 Mineral Dust Originating from the Exposed Lakebed of the Great Salt Lake	Kevin Perry
11:35 AM	Ambient and Laboratory Evaluation of the Plantower PMS Low-Cost Particulate Matter Sensor	Kerry Kelly
11:55 AM	Fluxes of hydrocarbons and carbonyls from snowpack	Seth Lyman
12:15 PM	<i>Poster Session and Lunch</i>	
1:40 PM	Familial effects moderate the association between short-term ambient air pollution exposure and risk of suicide	Amanda Bakian
2:00 PM	Genetic and Epigenetic Susceptibility of Airway Inflammation to PM2.5 in School Children: New Insights from Quantile Regression	Yue Zhang
2:20 PM	Cold-air Pool Exchange Processes and their impact on Air Quality in the Salt Lake City Basin	Sebastian Hoch
2:40 PM	Spatiotemporal Patterns of Urban Trace Gases and Pollutants Observed with a Light Rail Vehicle Platform in Salt Lake City, UT	Logan Mitchell
3:00 PM	<i>Break</i>	
3:30 PM	The Utah PRISMS Infrastructure for Generating Air Quality Exposomes	Kathy Sward
3:50 PM	AQ and U: A Multidisciplinary Approach for Engaging and Informing Citizens About PM2.5 Exposure	Miriah Meyer
4:10 PM	What does it matter? Driver gender, experience, and idling behavior effects on air pollutant emissions	Randy Martin
4:30 PM	The Intricacies of Wintertime PM2.5 Pollution: Northern UT Valleys	Munkh Baasandorj

Poster Session*	Lead Author
2015 Utah Toxics Study	Roman Kuprov
Aerosol Size Distributions at the University of Utah During Winter Inversion Events	Catherine Chachere
An agent-based model for estimating human activity patterns on the Wasatch Front	Albert Lund
Constraining Emissions of Methane in Utah's Uintah Basin with Ground-based Concentration Observations and a Time-Reversed Lagrangian Transport Model (STILT)	Chris Foster
DDA (nudging) impacts on WRF-CAMx model performance in simulating winter O3 formation in Uintah Basin	Trang Tran
Two-year Performance Evaluation of Low-cost Air Quality Sensors	Tofigh Sayahi
Development of the GC-MS Organic Aerosol Monitor (GC-MS OAM) for In-field Detection of Particulate Organic Compounds	Paul Cropper
Efficacy of High-Efficiency Particulate Air Filters in Reducing Respiratory Symptoms During Inversion Season	Danielle Babbel
Emissions of organic compounds from a landfarm in the Uintah Basin	Seth Lyman
Environmental and Human Factors influencing Residential PM Levels	James Moore
Estimations of VOC emissions from produced-water treatment ponds in Uintah Basin: Evaluation of flux-chamber measurements with inverse-modeling technique	Huy Tran
Formation of Particulate Matter (PM2.5) During Wintertime Inversions in the Salt Lake Valley	Amy Hrdina
Improvements in Wasatch Front Air Quality Modeling	Chris Pennell
Indoor Air Quality Sensing and Automation	Kyeong Min
Mobile Air Quality Measurements on Light Rail and Helicopter	Alexander Jacques
Observations and Simulations of a Lake Breeze with High Ozone Concentrations in the Salt Lake Valley	Brian Blaylock
Ozone evolution in both time and vertical distribution during Utah winter inversion events	Ryan Lawton
Particulate Matter distribution and formation by size from 0.3 microns to 10 microns during Utah winter inversion events	Michael Hess
Portable TiO2 Nanotube Sensor for the Detection of Benzene at Room Temperature	Shruti Hegde
Sex Differences in Ambient Particulate Matter Air Pollution Exposure and Hospital Readmissions among Cardiac Patients in Utah's Medicare Population	Claire Leiser
Source Apportionment and Risk Assessment of BTEX for winter 2015 in Roosevelt, Utah	Jerimiah Lamb
Statistical Analysis of Winter Ozone Exceedances in the Uintah Basin	Marc Mansfield
Testing a high resolution CO2, CO, NOx, and PM2.5 emissions inventory against atmospheric observations in Salt Lake City, Utah for health and policy applications	Daniel Mendoza
The AtmoSniffer, a lightweight, flight-ready, multi-sensor, air quality instrument	Jeffrey Page
The necessity for a size-based characterization of ultrafine/nano particulate matter (PM0.1) in Utah Valley air	Shoeleh Assemi
Toward a Miniaturized Gas Chromatography system	Hao-Chieh Hsieh
Trace Gas and Aerosol Measurements in Sevier County	Ryan Thalman
Utah Winter Inversion Optical Air Quality Study	Andrew Petersen
Wind-blown dust modeling using a backward Lagrangian particle dispersion model	Derek Mallia

*Program is subject to change