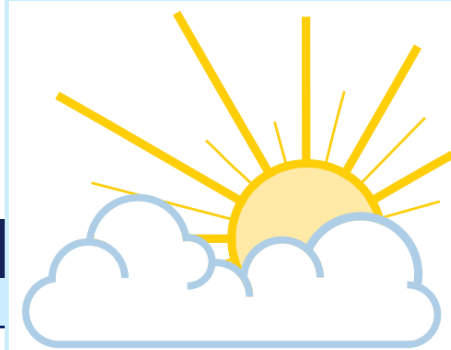


Air Quality: Science for Solutions 4

Brigham Young University (Provo, Utah)

Engineering Building



Tentative Conference Agenda: June 18th, 2020

9:00 AM	Conference Registration Opens	
9:30 AM	Jaron Hansen	Introductory Remarks
9:35 AM	Arden Pope	Plenary: Fine Particulate Matter Air Pollution and Mortality: Cohort Studies National, Representative, Public Use Data
10:20 AM	Judy Ou	A new research frontier: The effect of fine particulate matter (PM _{2.5}) on the respiratory morbidity and cancer mortality of young cancer survivors
10:40 AM	Yue Zhang	Long-term Exposures to Air Pollutants Affect FeNO in Children: A Longitudinal Study
11:00 AM	Morning Break & Poster Session I	
11:25 AM	Morgan Eggleston	Cache Valley PM _{2.5} Activates the Unfolded Protein Response in Human Lung Cells
11:45 AM	Makenzie Holmes	Organic compound concentrations and composition in ambient air across the Uinta Basin
12:05 PM	Huy Tran	Improving WRF/CAMx Model Performance using Satellite Data Assimilation Technique for the Uintah Basin
12:25 PM	Lunch Break & Poster Session II	
1:30 PM	Chris Emery	Investigating Sources of Ammonia Uncertainty in Modeling the Salt Lake City PM _{2.5} Nonattainment Area
1:50 PM	Motasem Abualqumboz	Ammonia Emission Assessment from Diesel and Gasoline Vehicles
2:10 PM	Sebastian W. Hoch	Results from the Jordan Narrows Gap Ammonia Transport Study: Inter-basin Airmass and Pollutant Exchange Estimates using Doppler Wind LiDAR
2:30 PM	Afternoon Break & Poster Session II	
2:55 PM	Gannet Hallar	The Potential Role of Coarse Particles in Winter Air Pollution
3:15 PM	Derek Mallia	Validating wildfire smoke transport within a coupled fire-atmosphere model using a novel high-density instrumentation network
3:35 PM	Annie Putman	The spatial structure and origin of trace metals in dust in the Salt Lake Valley, UT, USA
3:55 PM	Student Poster Awards & Adjourn Conference	
4:30 PM	Air Quality Monitoring Station and/or Hansen Lab Tours (Optional)	

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Tentative Poster Sessions: June 18th, 2020

Alyssa Pope	Understanding the effect of dust events on air quality through fine particulate matter sampling in Provo, UT
Andrew Lambert	Dust in the Great Plains and Intermountain West: A Trend Analysis
Bart Cubrich	Tools of The Trade: Application of the Isometric Logratio Transformation and Analysis of Similarities (ANOSIM) Statistic to VOC Emissions Composition Data from Oil and Gas Wells
Benjamin Abbott	Air pollution: trends and best practices from local to global scales
Brian Knaeble	Sensitivity Analysis and Epidemiologic Triangulation
Christopher Rapp	Utah Winter Fine Particulate Study A Statistical Overview
Colby Flinders	Particulate Matter and Tornadoes
Cristina Jaramillo	Source Apportionment of Air Toxics in Bountiful: A focus on formaldehyde and dichloromethane emissions Understanding how Wood-burning's Contributions to Particulate Matter Concentrations Have Changed over Time
Daniel Mendoza	Absentee and Economic Impact of Low-Level Fine Particulate and Ozone Exposure in K-12 Students
Delbert Eatough	A Combined PMF Back-trajectory Analysis of Sources of Dichloromethane in Bountiful
Elizabeth Jenkins	Measuring aerosols using inexpensive cameras and two-color laser scattering
Isabella Errigo	Human health and economic costs of air pollution in Utah: an expert assessment
Jeffery Huffman	Mapping Cache Valley Livestock Sources
Jeffrey Kindall	Measuring wildfire smoke with a miniature spectrometer
Jeffrey Perala-Dewey	Organic Contaminants in Airborne Dust of the Great Salt Lake
John Sohl	Gas Sensor Calibration and Stability Testing
Kaitlyn Conrad	WildFire Emissions Impacts on Air Quality in the Wasatch Front
Kamaljeet Kaur	Real-time measurement of mass deposition in electrostatic based air-liquid interface in vitro exposure system using quartz crystal microbalance
Lexie Wilson	Comparing Various Process Simulator Model Output (Flash Gas Composition) from Oil-Producing Wells in the Uinta Basin
Logan Mitchell	The Red Butte Canyon Ozone Network: monitoring background concentrations, canyon flows and stratospheric oxidant exchange in a pristine mountain canyon adjacent to Salt Lake City, UT
Marc Mansfield	TRANSPORT OF REACTING MOLECULES ACROSS THE AIR-WATER INTERFACE
Molly Blakowski	The Utah Dust Database: A meta-analytic approach to evaluating human and environmental exposure risks
Nancy Daher	Saturation Monitoring of Air Toxics in Davis County, Utah
Naomi Riches	Assessment of multi-pollutant ambient air composition on health outcomes using machine learning Elemental composition of the Great Salt Lake dried lake bed
Philip Lundrigan	Materializing the Air Quality Exposome: The Center of Excellence for Exposure Health Informatics
Randy Martin	Wasatch Front Ammonia and Chloride Observations (WaFACOs 2019)
Regi Oommen	Evaluation of Locality-Specific Factors for Oil and Gas Emission Inventories in Utah
Ryan Thalman	Air Quality of Sevier Valley, a Rural High Mountain Valley
Seth Lyman	Evidence against oxidation of elemental mercury by ozone Composition of organic compound emissions from oil and gas wells
Shane Schmidt	Painting a fuller picture: Residential pollutant emissions in the Salt Lake Valley
Shruti Hegde	Integrated TiO ₂ Nano-sensor Package for Detecting Fugitive Volatile Organic Compound Emissions
Soyoung An	Air Quality Personal Exposure Modeling for Translational Research
Tofigh Sayahi	Prediction of ozone data using machine learning with a metal oxide sensor
Trang Tran	Comparison of Meteorological-Chemistry Coupled Online Versus Offline Models in Simulating High Winter Ozone Episode in the Uinta Basin – Utah, USA.
Zach Lawless	Modeling Current and Future Windblown Dust Events Using CMAQ 5.3.1