



❖ 2018 National Air Quality Conference ❖

AGENDA

WEDNESDAY, JANUARY 24, 2018

8:00 a.m. – 12:00 noon

Exhibit Set-up

8:00 a.m. – 6:00 p.m.

Registration and Check-in

9:00 a.m. – 11:00 a.m.

Optional Training Session – Capital Ballroom E-H

AQI and AirNow 101: A session for those new to Air Quality Forecasting & Mapping or Communicating Air Quality
Moderator: *Alison Davis (EPA/OAQPS)*

The AQI from A to Z - Learn about how the AQI was established, the science behind it, and how you can use it to help people determine the best times of day for outdoor activity
Susan Lyon Stone, Senior Environmental Health Scientist (EPA/OAQPS)

How AirNow Works

Phil Dickerson, AirNow Program Director (EPA/OAQPS)

John E. White, AirNow Program Manager (EPA/OAQPS)

How Sacramento Brings the Message to the Masses

Jamie Arno, (Sacramento Metropolitan AQMD)

Resources and Tools

▪ AirNow Tech

John E. White, AirNow Program Manager (EPA/OAQPS)

Marcus Hylton (Sonoma Technology, Inc.)

▪ Data Resources for Different Audiences

David Mintz, Senior Statistician, Air Quality Analysis Group (EPA/OAQPS)

▪ Air Now Health Professional Tools

Susan Lyon Stone, Senior Environmental Health Scientist (EPA/OAQPS)

1:00p.m. – 2:45 p.m.

OPENING PLENARY SESSION – Capital Ballroom E-H

Welcome Remarks

Phil Dickerson, AirNow Program Director (EPA/OAQPS)

Keynote Address – “Physical Activity and Public Health – What About Air Quality?”

Harold W. (Bill) Kohl, III, Ph.D.

Professor of Epidemiology and Kinesiology

University of Texas Health Science Center – Houston

Michael and Susan Dell Center for Healthy Living

University of Texas at Austin, Department of Kinesiology and Health Education

New Health Information

Wayne Cascio (EPA/ORD)

2:45 p.m. – 3:15 p.m.

B R E A K

- 3:15 p.m. – 5:15 p.m. **PLENARY SESSION** (continued)
- International Initiatives**
- AirNow Global Initiative and Involvement Opportunities
Lourdes Morales, AirNow Global Community Manager (EPA/OAQPS)
- International Initiatives** (continued)
- Partnerships and Diplomacy: Air Quality Data Overseas
Caroline D'Angelo, Sustainability Advisor (U.S. Department of State)
 - NASA's KORUS-AQ Campaign and Plans for an Integrated Observing System for Air Quality
Barry Lefer, Tropospheric Composition Program Manager (Earth Science Division, NASA)
- Reimagining the AirNow Website**
Phil Dickerson, AirNow Program Director (EPA/OAQPS)
- Current Air Quality: The Latest on the NowCast**
Alison Davis (EPA/OAQPS)
- 5:30 p.m. – 7:00 p.m. Cash Bar Reception/Exhibit and Poster Session - Capital Ballroom A-D, and Capital View Terrace

THURSDAY, JANUARY 25, 2018

- 7:00 a.m. – 5:30 p.m. Exhibits and Posters
- 7:00 a.m. – 8:00 a.m. Registration
- 7:30 a.m. – 8:00 a.m. **New AirNow-Tech Features and Demonstration** - Capital Ballroom F-H
Alan Chan (Sonoma Technology, Inc.)
- 8:00 a.m. – 5:30 p.m. **BREAKOUT SESSIONS**
- 8:00 a.m. – 9:30 a.m. Breakout Sessions

AIR QUALITY FORECASTING & MAPPING CAPITAL BALLROOM F-H	COMMUNICATING AIR QUALITY CAPITAL BALLROOM E
<p>Current Activities in Forecasting, Mapping, and Modeling Moderator: <i>Nyasha Dunkley (Georgia Department of Natural Resources)</i></p>	<p>Air Quality Outreach and Education in Texas A Local Government Perspective Moderator: <i>Anton Cox (Capital Area Council of Governments-Austin-Round Rock Metro Area)</i></p>
<ul style="list-style-type: none"> • New Tools for Air Quality Modelling and Forecasting: Compact Sensors Combined with a Data Fusion Model with Forecasting Capabilities – <i>Mikko Laakso (Vaisala Oyj)</i> and <i>Lasse Johansson (Finnish Meteorological Institute)</i> • Representative Meteorological Data for AERMOD: A Case Study of WRF-Extracted Data Versus Nearby Airport Data – <i>Brian Holland (Trinity Consultants)</i> • Using Web-based Interactive Tools for Air Quality Analyses – <i>Doug Boyer and Weining Zhao (Texas Commission on Environmental Quality)</i> • What is the Future of Air Quality Forecasting in the U.S.? – <i>John E. White and Phil Dickerson (EPA/OAQPS), Marcus Hylton and Alan Chan (Sonoma Technology, Inc.)</i> 	<p>Panelists include:</p> <ul style="list-style-type: none"> • <i>Mindy Mize (North Central Texas Council of Governments -Dallas-Fort Worth Area)</i> • <i>Sharon Lewis (City of Corpus Christi)</i> • <i>Andrew Hoekzema (Capital Area Council of Governments -Austin-Round Rock Area)</i> • <i>Annette Prosterman (Alamo Area Council of Governments - San Antonio-New Braunfels Area)</i>

9:30 a.m. – 10:00 a.m. B R E A K

AIR QUALITY FORECASTING & MAPPING CAPITAL BALLROOM F-H	COMMUNICATING AIR QUALITY CAPITAL BALLROOM E
<p>Air Quality Forecasting: Tools and Techniques Moderator: <i>Cary Gentry (Forsyth County Office of Environmental Assistance and Protection)</i></p>	<p>Air Sensors and Citizen Science Moderator: <i>Tim Dye (TD Environmental Services, LLC)</i></p>
<ul style="list-style-type: none"> • Minnesota’s Statewide Air Quality Index Forecasting – <i>Steve Irwin (Minnesota Pollution Control Agency)</i> • National Air Quality Forecast Capability: Operational Fine Particulate Matter (PM_{2.5}) Forecast Guidance – <i>Ivanka Stajner (NOAA)</i> • Using New Statistical Approaches to Update Daily Ozone Concentration Forecasting Tools – <i>Marcus Hylton (Sonoma Technology, Inc.)</i> • New Nearly Continuous High Accuracy Satellite Aerosol Products for Fire, Dust, and Haze from GOES-16 – <i>Amy K. Huff (Pennsylvania State University)</i> 	<ul style="list-style-type: none"> • Emerging Technologies: Communicating Air Quality in a Changing World – <i>Kristen Benedict (EPA/OAQPS)</i> • Air Quality Studies and Citizen Science – Innovative Initiatives for Community Engagement in the San Francisco Bay Area – <i>David Ralston (Bay Area AQMD)</i> • AQTreks: Students Learning About Air Pollution Through Measurement and Data Sharing – <i>Jessa Ellenburg (2B Technologies)</i> • Making Sense of Kids Making Sense, a STEM-Based Air Quality Program – <i>Hilary Hafner (Sonoma Technology, Inc.)</i>

Noon – 1:30 p.m. LUNCH (on your own)

1:30 p.m. – 3:00 p.m. Breakout Sessions

AIR QUALITY FORECASTING & MAPPING CAPITAL BALLROOM F-H	COMMUNICATING AIR QUALITY CAPITAL BALLROOM E
<p>Exceptional Events Rule Updates and Perspectives Moderator: <i>Brad Poiriez (Mojave Desert Air Quality Management District)</i></p>	<p>Air Pollution and Public Health: Communicating Risk Moderator: <i>Christina Baghdikian (EPA/ORD)</i></p>
<ul style="list-style-type: none"> • Exceptional Events: U.S. EPA Updates and Overview – <i>Ben Gibson (EPA/OAQPS)</i> • Navigating the Updated Exceptional Event Rule at the State and Regional Level – <i>Cara Keslar (Wyoming DEQ)</i> • Communication and Coordination in Preparation of Successful Exceptional Event Demonstrations Under the New Exceptional Event Rule – <i>Anna Mebust (EPA/Region 9)</i> • Successful Wildfire Ozone Exceptional Events Demonstrations in Washoe County – <i>Julie Hunter (Washoe County Health District AQMD)</i> • Exceptional Events Rule an Industry Perspective – <i>Ted Steichen (American Petroleum Institute)</i> 	<ul style="list-style-type: none"> • Introduction – <i>Lisa Baxter (EPA/ORD)</i> • U.S. Air Quality Index New Communication Tools – <i>Susan Stone (EPA/OAQPS)</i> • Wildland Fire Smoke and Public Health – <i>Ana Rappold (EPA/ORD)</i> • Environmental and Public Health Air Pollution and the Healthcare System – <i>Wayne Cascio (EPA/ORD)</i> • Pilot Study on Maternal Exposure to Traffic-related PM_{2.5} Air Pollution – <i>Joe Ziestman (Texas A&M Transportation Institute)</i>

3:00 p.m. – 3:30 p.m. BREAK

AIR QUALITY FORECASTING & MAPPING CAPITAL BALLROOM F-H	COMMUNICATING AIR QUALITY CAPITAL BALLROOM E
Case Studies, Data Analysis, and Modeling Tools Moderator: <i>Gary Morris (St. Edward's University)</i>	Innovative Outreach Initiatives Moderator: <i>Jamie Arno (Sacramento Metropolitan Air Quality Management District)</i>
<ul style="list-style-type: none"> • Development and Use of an Ozone Regression Model to Predict and Evaluate Ozone in the UGRB – <i>Adam Deppe (Wyoming DEQ)</i> • Considerations in Evaluation of Potential Exposures to Emissions from Oil and Gas Activity in North Texas – <i>Lindsey Jones (Texas CEQ)</i> • Analysis of the Corpus Christi Refinery Row Public Health Assessment – <i>Sabine Lange (Texas CEQ)</i> • October 2017 Northern California Wildfires and Air Quality in the San Francisco Bay Area - <i>Daniel Alrick (Bay Area AQMD)</i> 	<ul style="list-style-type: none"> • EPA's Interactive Trends Report: Our Nation's Air – Status and Trends Through 2016 – <i>Arthur Zuco (EPA/OAQPS)</i> • Air Quality Awareness for DC's Youth: Green Zone Environmental Program – <i>Alexandra Catena (DC Department of Energy and Environment)</i> • Integrating Air Quality Data and Wearable Technology – <i>Kevin Brundage and Victoria Wasem (ATTAIN)</i> • Minnesota's Air Quality Forecast and Alert Collaboration and Outreach – <i>Daniel Dix (Minnesota Pollution Control Agency)</i> • "Breathe Today. SA Tomorrow" San Antonio's Air Quality Regional Campaign – <i>Douglas Melnick (City of San Antonio) and Mae Escobar (aMAEzing LLC)</i> • EPA's Burn Wise Program: Products and Partnerships – <i>Larry Brockman (EPA/OAQPS)</i>

5:30 p.m. – 6:00 p.m.

AirNow is approaching 20...What should happen in the next Decade? - Capital E
Phil Dickerson, AirNow Program Director (EPA/OAQPS)
John E. White, AirNow Program Manager (EPA/OAQPS)

FRIDAY, JANUARY 26, 2018

7:00 a.m. – 11:30 a.m.	Exhibits and Posters
7:00 a.m. – 8:00 a.m.	Registration
8:00 a.m. – 11:30 a.m.	BREAKOUT SESSIONS
8:00 a.m. – 9:30 a.m.	Breakout Sessions

AIR QUALITY FORECASTING & MAPPING CAPITAL BALLROOM F-H	COMMUNICATING AIR QUALITY CAPITAL BALLROOM E
Source Identification and International Air Quality Management Moderator: <i>Stephanie Shirley (Texas Commission on Environmental Quality)</i>	Innovative Outreach Initiatives – Part II Moderator: <i>Anne Gobin (Connecticut Department of Energy and Environmental Protection)</i>
<ul style="list-style-type: none"> • AirNow Global – Platform for International Collaboration – <i>John E White and Lourdes Morales (EPA/OAQPS)</i> • Comprehensive Air Quality Management in Qatar: Our Challenges and the Path Forward – <i>Mohammed A. Ayoub, Christos Fountoukis, and Luis Ackermann (Qatar Environment and Energy Research Institute, Hamad bin Khalifa University, Qatar Foundation, Doha, Qatar)</i> • SPeCS for SIPS: (State Plan Electronic Collection System for State Plan Submissions) – <i>Kelly Poole (ECOS)</i> • San Antonio Field Study 2017: An Investigation of the Possible Causes of High Ozone in San Antonio, Texas During May 2017 – <i>Mark Estes (Texas CEQ)</i> 	<ul style="list-style-type: none"> • Idle Free Bay Area Campaign Catches On! – <i>Luz Gomez (Bay Area AQMD)</i> • Dangling the Carrot: Driving Mode Shift for Clean Air – <i>Brooke White and Dan Sheehan (Mid-Ohio Regional Planning Commission)</i> • Carbon Banking as a Learning Tool: Cumberland County Carbon Tree Bank – <i>Ashley Denise Bruce (Fayetteville Metro Area Air Quality Stakeholders)</i> • Addressing Public Outrage at an Oil Field Site in Downtown Los Angeles – An Air Monitoring Risk Mitigation Model for Other Urban O&G Operations – <i>Eric Winegar (Exponent, Inc.)</i>

9:30 a.m. – 10:00 a.m. B R E A K

10:00 a.m. – 11:30 a.m. Breakout Sessions

AIR QUALITY FORECASTING & MAPPING CAPITAL BALLROOM F-H	COMMUNICATING AIR QUALITY CAPITAL BALLROOM E
Personal Air Sensors: Correlation and Validation Moderator: <i>Stuart Spencer, Arkansas Department of Environmental Quality</i>	Wildfire and Smoke Moderator: <i>Lyz Hoffman, Santa Barbara APCD</i>
<ul style="list-style-type: none"> • Variations in Wintertime PM Among Communities in Sacramento Measured with a Combination of Traditional and Low-Cost Sensor Methods –<i>Janice Lam Snyder (Sacramento Metropolitan AQMD)</i> • Where Did That Peak Come From? Using Low-cost PM Data and Meteorological Measurements to Identify Sources – <i>Tim Dye (TD Environmental Services)</i> • E-Enterprise Advanced Monitoring Strategy and Implementation Team – <i>Kelly Poole (ECOS)</i> 	<ul style="list-style-type: none"> • Wildfire Smoke: A Guide for Public Health Officials – <i>Susan Stone (EPA/OAQPS)</i> • U.S. Fire Service Resources – <i>Pete Lahm (U.S. Forest Service)</i> • The Centers for Disease Control’s Role in Air Quality Communication – <i>Scott Damon (CDC)</i> • Managing Wildfire Smoke in Washington State – <i>Ranil Dhammapala (Washington Department of Ecology)</i> • Tribal Smoke Management Programs – <i>Andrea Boyer (Nez Perce Tribe)</i>

11:30 a.m. – 1:00 p.m. L U N C H (on your own)

11:30 a.m. – 4:00 p.m. Exhibit and Poster Tear Down

1:00 p.m. – 3:00 p.m. **CLOSING PLENARY SESSION** – Capital Ballroom E-H

Small Sensors & Big Data

- From the Ground to the Cloud: Big data analytics for air quality
Karin Tuxen-Bettman, Program Manager (Google)
- Air Quality Sensor Performance Evaluation Center (AQ-SPEC): Results from Three Years of Field and Laboratory Testing
Andrea Polidori, Atmospheric Measurements Manager (South Coast AQMD)
- Sensor Networks and "Smart Cities" - The Landscape
Kristen Benedict, Air Sensors Team Lead (EPA/OAQPS)

Closing Remarks & Partner of the Year Award

Phil Dickerson, AirNow Program Director (EPA/OAQPS)

3:00 p.m. Conference Adjourns