







Conference Agenda September 27-28, 2017

<u>Day One – Wednesday, September 27</u>

7:30 a.m. Registration Check-in

Exhibit Opening

Continental Breakfast - Sponsored by DR DAS LTD & Netronix Inc.

8:30 a.m. Welcome

Wayne Nastri, Executive Officer, SCAQMD Jack Broadbent, Executive Officer, BAAQMD Alan Abbs, Executive Director, CAPCOA

8:35 a.m. Opening Comments

Dr. William Burke, Chairman, SCAQMD

8:45 a.m. Keynote Speaker

Kourosh Karimkhany (Weather Underground)
Building a global environmental sensor network
Validation, analysis and interpretation of big data
Integrating meteorological and air quality data

9:15 a.m. State of Sensor Technology

Presenters: Tim Dye (TD Environmental), Andrea Polidori (SCAQMD),

Stephen Feinberg (U.S. EPA)

History and current state of air quality sensor technology

Field and laboratory sensor evaluation

Sensor calibration, performance and reliability

10:15 a.m. Coffee Break (30 minutes) - Exhibit Open

10:45 a.m. Sensor Network Development and Data Acquisition – Part 1

Presenters: Jesse Kroll (MIT), Sean Bonner (Safecast), Michael Heimbinder (HabitatMap),

Adrian Dybwad (PurpleAir)

Open air quality platform for communities

Sensor network development and implementation
Challenges with continuous data in large scale networks

11:45 a.m. Lunch (90 minutes) – Sponsored by EnviroSuite

Exhibit Open

15-Minute AQ-SPEC Laboratory Tours (participants must be signed-up prior to conference)

1:15 p.m. Sensor Network Development and Data Acquisition – Part 2

Presenters: Brian Miles (CGI), Anna Scott (Johns Hopkins University),

Christa Hasenkopf (OpenAQ), Nicholas Masson (QSense)

Open air quality platform for communities

Sensor network development and implementation Challenges with continuous data in large scale networks

2:15 p.m. Data Analysis, Interpretation and Mapping – Part 1

Presenters: Melissa Lunden (Aclima), Edmund Seto (University of Washington),

Katja Krivoruchko (ESRI)

Tools to visualize and analyze sensor data: cloud, big data and machine learning

Using mobile vehicles and sensors to map air pollution

Integrating regulatory, community, and personal air quality data

3:00 p.m. Snack Break (30 minutes) – Sponsored by Sonoma Technology, Inc., & AirThinx

Exhibit Open

3:30 p.m. Data Analysis, Interpretation and Mapping – Part 2

Presenters: Bart Croes (CARB), Ziv Lautman (Breezometer),

Robin Ormerod/Matt Scholl, (EnviroSuite)

Tools to visualize and analyze sensor data: cloud, big data and machine learning

Using mobile vehicles and sensors to map air pollution

Integrating regulatory, community, and personal air quality data

4:15 p.m. Perspectives and Expectations - Panel Session

Moderator: Andrea Polidori, SCAQMD

Panelists: Joseph Lyou (Coalition for Clean Air), Eric Stevenson (BAAQMD),

Luis Olmedo (CCV), Janet Whittick (CCEEB)

Expectations and issues with data collected by large-scale sensor networks

How EJ communities can benefit from using air quality sensors

Industry and air quality agencies roles in the development of actionable sensor data

5:00 p.m. Poster Session

Exhibit Open

15-Minute AQ-SPEC Laboratory Tours (participants must be signed-up prior to conference)

6:00 p.m. End of Formal Program Day 1

6:00-8:00 p.m. Networking Reception

Location: Diamond Bar Golf Course – Less than one mile from SCAQMD Headquarters

Hors d'oeuvres and Beverages Plus No-Host Bar

Day Two - Thursday, September 28

8:00 a.m. Registration Check-in

Exhibit Open

Continental Breakfast - Sponsored by DR DAS LTD & Netronix Inc.

8:30 a.m. Keynote Speaker

Dean Bethke (Microsoft)

Back-end applications for sensor networks How industries are using Internet of Things

Cloud-based solutions for data storage and analysis

9:00 a.m. Network Deployments and Applications

Presenters: Michael Hannigan (University of Colorado), William Griswold (UC San Diego),

R. Subramanian (Carnegie Mellon University), Vasileios Nasis (Netronix)

Case studies from various deployments in the US

Challenges and lessons learned

Resources needed to develop large sensor networks

10:00 a.m. Coffee Break (30 minutes)

Exhibit Closing Upon Conclusion of Break

10:30 a.m. Integrating Low-Cost Sensors and Satellite Data

Presenters: David Diner (JPL-NASA), Petros Koutrakis (Harvard University),

Ronald Cohen (UC Berkeley)

Integration of satellite observations with surface sensor measurements

Using satellite-based remote sensing to assess human exposures to air pollution

Connecting space-based observations with dense sensor networks

11:30 a.m. Sensor Data Dissemination - Panel Session

Moderator: J.R. DeShazo (UCLA)

Panelists: Veronica Eady (CARB), Paul English (CDPH), Andrea Clements (U.S. EPA),

Abhijit RS (EDF)

Closing the gap between traditional air monitoring and sensor data

Communicating sensor data findings to the public Integrating sensor data in health related studies

12:30 p.m. Closing Remarks

Ben Benoit, Vice-Chairman, SCAQMD

12:45 p.m. 15-Minute AQ-SPEC Laboratory Tours (participants must be signed-up prior to conference)