AGENDA

Northern California (N)
Wednesday, November 19, 2014
Elihu M. Harris State Building
1515 Clay Street
Oakland, California 94612

Southern California (S)
Friday, November 21, 2014
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765

- 9:00 Welcome & Introductions
- 9:10 Understanding What Is In the Air
 - Major air pollution sources
 - Particle and gaseous pollutants
 - Spatial and temporal variations (regional v. local)
 - Health impacts associated with air quality
- 9:30 Measuring Air Pollution: Monitoring & Sensor Technology
 - Monitoring objectives
 - Types of objectives (NAAQS, emission point, localized impacts)
 - Technology used
 - Low-cost sensor technology
 - o Pros & cons
 - o State of the science
 - Technical issues
 - Next Generation Air and Compliance Monitoring
- 10:00 "Low-cost" Sensor Performance and Data Quality
 - Evaluating performance
 - Building a testing center
 - Addressing sensor reliability
 - Communicating results
 - Getting good data
 - Issues affecting data quality

- N: Jack Broadbent, Bay Area Air Quality Management District (BAAQMD)
- S: Barry Wallerstein, South Coast Air Quality Management District (SCAQMD)
- N: Phil Martien, BAAQMD
- S: Philip Fine, SCAQMD & Rob McConnell, Univ. of Southern California
- N: Eric Stevenson, BAAQMD
- S: Dan Johnson, Great Basin Unified Air Pollution Control District
- N: Carlos Nunez, U.S. EPA, Office of Research and Development at Research Triangle Park
- S: Gayle Hagler, U.S. EPA, Office of Research and Development at Research Triangle Park
- N & S: Laki Tisopulos and Andrea Polidori (SCAQMD)

My Air Quality: Using Sensors to Know What's in Your Air

Developing QA/QC procedures and documentation

10:30 Break

10:45	Meaning	of Sensor	Data
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- Context
 - O What levels are of concern?
- Data limitations
 - o Data interpretation & reporting
 - O How can these data be used?

11:15 Sensors Deployment and Applications

- Community monitoring
 - Available technology
 - Development of air quality maps
 - Case studies
- Monitoring in high concentration environments
 - Near-field exposure
 - o Indoor cook stove
 - Transportation corridors
- Sensor networks
 - o Building a "high density" sensor network
 - o BEACON project

12:00 Lunch

1:15 Focused Discussions (parallel sessions)

- Community projects using sensors
- Compliance & industrial applications for sensors
- Developing good sensors
- Sensors as educational tools

- N & S: John Vandenberg, U.S. EPA, Office of Research and Development at Research Triangle Park
- N & S: Dena Vallano, U.S. EPA, Region IX
- N & S: Michael Heimbinder, HabitatMap
- N & S: David Holstius, BAAQMD
- N & S: Ron Cohen, Univ. of California, Berkeley

- N: BAAQMD staff and Denny Larson, Global Community Monitor
- S: SCAQMD staff and Luis Olmedo Velez, Comite Civico Del Valle
- N: BAAQMD staff and Janet Whittick, California Council for Environmental and Economic Balance (CCEEB)
- S: SCAQMD staff and Janet Whittick, CCEEB
- N: BAAQMD staff and Clinton MacDonald, Sonoma Technologies, Inc. (STI)
- S: SCAQMD staff and Clinton MacDonald, STI
- N: BAAQMD staff and Ron Cohen, Univ. of California, Berkeley
- S: SCAQMD staff and Ron Cohen, Univ. of California, Berkeley

My Air Quality: Using Sensors to Know What's in Your Air

2:45 Break

3:00 Sensor Technology Demonstration & Posters

• Three 10 minute presentations plus ½ hour for viewing posters/sensors

4:00 Next Steps Together on the Path to Sensor Technology

- A facilitated discussion on sensor issues confronting agencies
 - Engaging/educating the public
 - Communication with communities & developers
 - o Consistent agency strategy & message
 - Avoid duplication of work
 - Provide/promote clear & consistent information on sensors, data quality, and expectations
 - Funding for sensor projects

Participating organizations/developers/manufacturers will include: Sonoma Technology Inc. (STI), Perkin Elmer, Valencell, T&B Systems, Acrobotic, Dylos, Metone, Aeroqual, Horiba, Landtec

Moderator N & S: Barbara Lee, Northern Sonoma County Air Pollution Control District

Panel: Sector representatives from the Focused Discussions, plus

- N: Jack Broadbent or Eric Stevenson, BAAQMD

 Michael Benjamin, California Air Resources Board (CARB)

 Meredith Kurpius, U.S. EPA, Region IX
- S: Barry Wallerstein or Philip Fine or Laki Tisopulos, SCAQMD Michael Benjamin, CARB Meredith Kurpius, U.S. EPA, Region IX