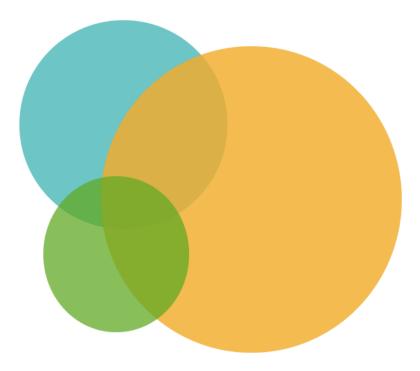


Air Sensors International Conference 2018



Advancing Science and Engaging Communities

Oakland Convention Center, California | September 12-14, 2018

Thank you to our Committee Members

UC Davis Air Quality Research Center in partnership with the U.S. Environmental Protection Agency, California Air Resources Board, South Coast Air Quality Management District and National Institute for Environmental Health designed this educational conference to advance the science of air quality sensors with a focus on engaging communities. As a team, we enlisted the support from over 50 other individuals with knowledge and experience in air quality sensors and community science to create the incredible program experience at ASIC 2018.

The UC Davis AQRC would like to express our greatest appreciation for our partners and committee members who have shared knowledge and given time to make this enriching educational conference possible.

Josh Apte, University of Texas

David Balshaw, NIEHS

Liu Baoxian, Beijing Municipal Environmental

Protection Bureau

Kristen Benedict, US EPA

Ron Cohen, UC Berkeley

Yuxia Cui, NIH/NIEHS

François Dedieu, French Agronomic Institute (Inra)
Suresh Dhaniyala, Clarkson University
Catherine Dunwoody, CARB
Veronica Eady, CARB

Holger Eisl, Queens College, City University of New York

Cassie Ely, EDF

Paul English, California Department of Public Health Ron Evans, US EPA

Jennifer Gabrys, Goldsmith, University of London & Citizen Sense

Vanessa Galaviz, University of Washington Gretchen Gehrke, Public Lab Michel Gerboles, EC-JRC Tarun Gupta, IIT Kanpur, Franc

Walter Ham, CARB
Mike Hannigan, University of Colorado, Boulder
Christa Hasenkopf, Open AQ
Michael Heimbinder, HabitatMap
Ajith Kaduwela, CARB

Amanda Kaufman, US EPA

Iyad Kheirbek, C40 Cities
Vasu Kilaru, US EPA
Pramod Kulkarni, NIOSH
Janice Lam Snyder, SMAQMD
Jason Low, SCAQMD
Humberto Luego, CCV Health
Elizabeth Mannshardt, US EPA
Luis Olmedo, CCV, IVAN AIR
Vasileios Papapostolou, SCAQMD
Robert Pinder, US EPA
Andrea Polidori, SCAQMD
Joann Rice, US EPA

Nico Schulte, CARB
Willie Shubert, Public Lab
Linda Tombras Smith, CARB
Mia South, US EPA

David Southgate, DISUR Puerto Rico
Susan Stone, US EPA
Jenia Tufts, US EPA
John Volckens, Colorado State University

Chet Wayland, US EPA
Tony Wexler, AQRC
John White, US EPA
Ron Williams, US EPA
Holly Wilson, US EPA

Alfred YU, Environmental Protection Department Yifang Zhu, UCLA

We couldn't do this without you!

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National Institute for Environmental Health Sciences, Environmental Health Science Center at UC Davis







TUESDAY, SEPTEMBER 11, 2018

2:00pm - 8:00pm

Registration Open

4:00pm – 4:45pm **Pre-Conference Trainings**, sponsored by Airthinx

201	Air Quality 101	John Balmes, UCSF
202	State of Air Sensors	Tim Dye, TD Environmental Services
203	Technical Foundations for Sensor Networks	Melissa Lunden, Aclima
204	Excel Macro 101	Andrea Clements, US EPA
205	Creating Healthy Indoor Spaces for Industry Members	Airthinx

5:00pm – 5:45pm **Pre-Conference Trainings**, sponsored by Airthinx

201	Air Quality 102	Ajith Kaduwela, CARB
202	Community Sensor Training: Best practices and lessons learned	Vasileios Papapostolou, SCAQMD &
	for engaging communities in air quality monitoring	Hilary Hafner, Sonoma Technology Inc
203	Sensing to Go: Mobile Platforms	Melissa Lunden, Aclima

WEDNESDAY, SEPTEMBER 12, 2018

7:00am – 5:30pm Registration Open 8:00am – 7:30pm Exhibit Hall Open Exhibit Hall Sponsored by Aclima

8:00am – 9:30am Plenary Panel

East 1

CALIFORNIA COMMUNITY AIR PROTECTION PANEL

Moderator: Catherine Dunwoody, CARB

Podium Presentations & Discussion by:

Veronica Eady, California Air Resources Board Jason Low, South Coast Air Quality Management District Eric Stevenson, Bay Area Air Quality Management District Alan Abbs, California Air Pollution Control Officers Association

East 3 (ABCD)

10:00am - 11:00am Concurrent Sessions - Group 1

East 1	
REGULATIONS AND PERFORMANCE STANDARDS	
CHAIRS: Walter Ham, CARB & Kristen Benedict, US EPA	

Podium Presentations by:

- Kyle Vagadori, CARB
- Kristen Benedict, US EPA
- Craig Kreman, Quapaw Tribe of Oklahoma
- Michel Gerboles, EC-JRC

INDOOR AIR QUALITY CHAIRS: Holly Wilson, US EPA & Yifang Zhu, UCLA Panel Discussion with: - Bob Thompson, US EPA - Yifang Zhu, UCLA - Justin Patts, NIOSH - Martin Lukac, Nexleaf Analytics

DATA ANALYTICS CHAIRS: Andrea Polidori, SCAQMD & Elizabeth Mannshardt, US EPA

- Christoph Hueglin, Empa, Swiss Federal Laboratories
- Brandon Feenstra, South Coast Air Quality Management District
- Jennifer Eberwein, Mojave APCD & Steve Drevik, Agilaire
- L. Drew Hill, Exponent, Inc. Center

11:00am – 11:30am **Session Break**

East 1

11:30am – 12:30am Concurrent Sessions – Group 1 continued...

7.7.
REGULATIONS AND PERFORMANCE
STANDARDS
CHAIRS: Walter Ham, CARB & Kristen
Benedict, US EPA

Podium Presentations by:

- Andrea Polidori, SCAQMD
- Eric Stevenson, BAAQMD
- Caroline D'Angelo US DOS
- Liu Baoxian, BJMEMC

East 3	(ARCD)
Last J	(ADCD)

INDOOR AIR QUALITY

CHAIRS: Holly Wilson, US EPA & Yifang Zhu, UCLA

Panel Discussion Continued with:

- Ajay Pillarisetti, UC Berkeley
- Oliver Lefebvre, Climate Solutions Consulting
- Ang Zhao, Rock Environment and Energy Institute

East 4 (EFGH)

DATA ANALYTICS

CHAIRS: Andrea Polidori, SCAQMD & Elizabeth Mannshardt, US EPA

Podium Presentations by:

- David Lary, University of Texas at Dallas
- Tongshu Zheng, Duke University
- Ramachandran Subramanian,
 Carnegie Mellon University

12:30am – 2:00pm Lunch Break & Exhibit Viewing – On your own

2:00pm – 3:00pm Concurrent Sessions – Group 2

East 1

CITIZEN & COMMUNITY SCIENCE GROUP 1

CHAIR: Vanessa Galaviz, University of Washington

Podium Presentations by:

- Trina Mackie, Touro University
- Amanda Kaufman, US EPA
- Luis Olmedo, CCV, IVAN AIR
- Gustavo Aguirre Jr., CCEJN

East 3 (ABCD)

GAS & VAPOR SENSING

CHAIRS: Ron Williams, US EPA & Joann Rice, US EPA

Podium Presentations by:

- Ron Williams, US EPA
- Michael Hannigan, University of Colorado
- Geoff Henshaw, Aeroqual Ltd
- Igor Paprotny, University of Illinois at Chicago

East 4 (EFGH)

DATA ASSIMILATION

CHAIRS: John White, US EPA & Michel Gerboles, EC-JRC

Podium Presentations by:

- Alena Bartoňová, NILU Norwegian Institute for Air Research
- Karin Tuxen-Bettman, Google
- Michael Heimbinder, HabitatMap

3:00pm – 3:30pm Session Break

3:30pm – 4:30pm Concurrent Sessions – Group 2 Continued...

East 1

CITIZEN & COMMUNITY SCIENCE GROUP 1

CHAIR: Vanessa Galaviz, University of Washington

Podium Presentations by:

- Ms. Margaret Gordon, WOIEP
- Margaret Rice, New York City Department of Health & Mental Hygiene
- Kris Ray, Colville Tribes
- Calvin Cupini, Clean Air Carolina

East 3 (ABCD)

GAS & VAPOR SENSING

CHAIRS: Ron Williams, US EPA & Joann Rice, US EPA

Podium Presentations by:

- Markus Knoll, Graz University of Technology, Institute of Electronic Sensor Systems
- Georgia Miskell, University of Auckland
- Ardevan Bakhtari, Scentroid
- Amanda Billingsley, AQMesh

East 4 (EFGH)

DATA ASSIMILATION

CHAIRS: John White, US EPA & Michel Gerboles, EC-JRC

- Theo Damoulas, University of Warwick & The Alan Turing Institute
- Tim Dye, TD Environmental Services
- Jun Wang, University of Iowa

4:40pm – 5:35pm **Poster Presentations**

Poster Displays will cover air sensor applications, research projects, the resulting data and community engagement case studies. There will be 50 Rapid Fire Poster Presentations in the main hall East 1 before the Welcome Reception and Poster Viewing begins.

5:45pm – 7:30pm Welcome Reception & Poster Review

Sponsored by Bay Area Air Quality Management District & South Coast Air Quality Management District
The Welcome Reception Sponsors, the Bay Area Air Quality Management District and South Coast Air Quality
Management District invite you to join them to mix & mingle with colleagues while enjoying some great
appetizers and beverages! This Welcome Reception is held in the Exhibit Hall, which is sponsored by Aclima.

THURSDAY, SEPTEMBER 13, 2018

8:00am – 7:30pm Exhibit Hall Open Exhibit Hall Sponsored by Aclima

8:00am – 9:30am Plenary Panel

East 1

COMMUNITY PERSPECTIVES AND CONNECTIONS PLENARY PANEL

Moderator: Amanda Kaufman, US EPA & Paul English, CA Department of Public Health

Podium Presentations & Discussion by:

Penelope "Jenny" Quintana, San Diego University Kris Ray, Colville Confederated Tribes Calvin Cupini, Clean Air Carolina Adrienne Hollis, West Harlem Environmental Action, Inc.

10:00am - 11:00am Concurrent Sessions - Group 1

East 1 LOW & MIDDLE INCOME

CHAIR: Robert Pinder, US EPA

COUNTRIES

Panel Session with:

- Emmanuel Appoh, Ghana Environmental Protection Agency
- Saliou Souare, Centre de Gestion de la Qualité de l'Air à Dakar (CGQA)
- R. Subramanian, Carnegie Mellon University
- Sean Khan, United Nations Environment

East 2

YOUTH EDUCATION

CHAIRS: Paul English, CA
Department of Public Health
& Mia South, US EPA

Podium Presentations by:

- Luz Guel, The Mount Sinai Transdisciplinary Center on Early Environmental Exposures
- Eric Cantenwalla, US EPA
 & Ryder Freed, US EPA
- Daniel Madrigal, Public Health Institute

East 3 (ABCD)

FIELD EXPERIENCE

CHAIRS: Jennifer Gabrys, Goldsmith, University of London & Citizen Sense, Michael Heimbinder, HabitatMap & Luis Olmedo, CCV, IVAN AIR

Podium Presentations by:

- Jesse Kroll, Massachusetts Institute of Technology
- Sunil Gulia, National Environmental Engineering Research Institute
- Shih-Chun Candice Lung, Research Center for Environmental Changes, Academia Sinica
- Benjamin Barratt, King's College London

East 4 (EFGH)

PARTICLE SENSING

CHAIRS: Vasileios Papapostolou, SCAQMD & Suresh Dhaniyala, Clarkson University

- Eben Cross, Aeroqual Research Inc.
- Kyle Alberti, Aeroqual Research Inc.
- Lara Gundel, Lawrence Berkeley National Laboratory
- Pratim Biswas,
 Washington University
 in St. Louis

11:30am – 12:30am Concurrent Sessions – Group 1 continued...

LOW & MIDDLE INCOME COUNTRIES

CHAIR: Robert Pinder, U.S. EPA

Panel Sessions with:

- Emmanuel Appoh, Ghana Environmental Protection Agency
- Saliou Souare, Centre de Gestion de la Qualité de l'Air à Dakar (CGQA)
- R. Subramanian, Carnegie Mellon University
- Sean Khan, United Nations Environment

East 2

YOUTH EDUCATION

CHAIRS: Paul English, CA Department of Public Health & Mia South, US EPA

Podium Presentations by:

- Amal Kaduwela,
 Albany High School
- Rachelle Duvall, US EPA
- Group Discussion to follow

East 3 (ABCD)

FIELD EXPERIENCE

CHAIRS: Jennifer Gabrys, Goldsmith, University of London & European Research Counsel, Michael Heimbinder, HabitatMap & Luis Olmedo, CCV, IVAN AIR

Podium Presentations by:

- Pierre Pernot & Adrian Arfire, Airparif
- Ashley Collier-Oxandale, University of Colorado Boulder
- Guy Coulson, National Institute of Water and Atmospheric Research
- Karen Canales, Little Village Environmental Justice Organization

East 4 (EFGH)

PARTICLE SENSING

CHAIRS: Vasileios Papapostolou, SCAQMD & Suresh Dhaniyala, Clarkson University

Podium Presentations by:

- Vasileios Papapostolou, South Coast AQMD
- Sreenath Avula, TSI Inc.
- Meilu He, Clarkson University
- Graeme Carvlin, Puget
 Sound Clean Air Agency

12:30am – 2:00pm Lunch Break & Exhibit Viewing – On your own

2:00pm – 3:00pm Concurrent Sessions – Group 2

East 1

CITIZEN & COMMUNITY SCIENCE GROUP 2

CHAIR: Catherine Dunwoody, CARB

Podium Presentations by:

- Jill Johnston, USC and CBE
- Ernie Weijers, National Institute for Public Health and the Environment RIVM
- Nancy Carmona, University of Washington, Department of Environmental and Occupational Health Sciences
- Jennifer Gabrys, Goldsmith, University of London & Citizen Sense

East 3 (ABCD)

DATA COMMUNICATION

CHAIRS: Susan Stone, US EPA & Jason Low, SCAQMD

Podium Presentations by:

- Jason Low, South Coast AQMD
- Mena Shah, CARB
- Elena Austin, University of Washington
- Kayla Schulte, University of Oxford

East 4 (EFGH)

MOBILE TECHNOLOGIES

CHAIRS: Nico Schulte, CARB & Josh Apte, University of Texas

Podium Presentations by:

- Albert Presto, Carnegie Mellon University
- Anthony Miller, Entanglement Technologies, Inc.
- Kirsten Koehler, Johns Hopkins University
- Bassam Dgheim, Aclima, Inc.

3:00pm - 3:30pm

Session Break

3:30pm – 4:30pm Concurrent Sessions – Group 2 Continued...

East 1
CITIZEN & COMMUNITY SCIENCE
GROUP 2

CHAIR: Catherine Dunwoody, CARB

Podium Presentations by:

- Adrienne Hollis, West Harlem Environmental Action, Inc.
- Michael Ogletree, Denver Department of Public Health & Environment
- Sacoby Wilson, School of Public Health and University of Maryland-College Park
- Anna Scott, Johns Hopkins University

East 3 (ABCD)

DATA COMMUNICATION

CHAIRS: Susan Stone, US EPA & Jason Low, SCAQMD

Podium Presentations by:

- Susan Lyon Stone, US EPA
- Jim Menard, IBM and The Weather Company
- Alexa Wilkie, Public Health Institute and CDPH
- Maria Harris, Environmental Defense Fund

East 4 (EFGH)

MOBILE TECHNOLOGIES

CHAIRS: Nico Schulte, CARB & Josh Apte, University of Texas

Podium Presentations by:

- Marianne Hatzopoulou, Department of Civil Engineering, University of Toronto
- Priyanka deSouza, Massachusetts Institute of Technology
- Nico Schulte, CARB

4:45pm – 5:45pm Plenary Panel

East 1

FEDERAL CONNECTIONS PLENARY PANEL

Moderator: Kristen Benedict, US EPA

Podium Presentations & Discussion by:

Meredith Kurpius, US Environmental Protection Agency Erika Sasser, US Environmental Protection Agency Katherine Weber, US Department of State

6:00pm - 7:00pm

Industry Member Gathering (Oakland Room, 3rd Floor) **Community Scientist Gathering** (California Room, 3rd Floor)

FRIDAY, SEPTEMBER 14, 2018

8:00am – 5:00pm Exhibit Hall Open Exhibit Hall Sponsored by Aclima

8:00am – 9:30am Plenary Panel

East 1

INTERNATIONAL PERSPECTIVES PLENARY PANEL

Moderator: Andrea Polidori, South Coast Air Quality Management District

Podium Presentations & Discussion by:

Lyng-Jyn Chen, Academia Sinica Tonny Xie, Bluetech Clean Air Alliance Sean Khan, United Nations Environment Alena Bartoňová, NILU Norwegian Institute for Air Research Emmanuel Appoh, Ghana Environmental Protection Agency

East 1

CHAIRS: David Balshaw, NIEHS & Linda Tombras Smith, CARB

EXPOSURE AND HEALTH

Podium Presentations by:

- Edmund Seto, University of Washington
- Darby Jack, Columbia University
- David Peden, University of North Carolina

East 3 (ABCD)

MONITOR SITING

CHAIRS: Janice Lam Snyder, Sacramento Air Quality Management District & Holger Eisl, Queens College, City University of New York

Podium Presentations by:

- Alena Bartoňová, NILU Norwegian Institute for Air Research
- Kate Hoag, BAAQMD
- Holger Eisl, Queens College, City University of New York
- Kun-Hsing Liu, Green Energy and Environmental Research Laboratories and Industrial Technology Research Institute

East 4 (EFGH)

EMERGING TECHNOLOGIES

CHAIRS: Ron Evans, US EPA & Yuxia Cui, NIH and NIEHS

Podium Presentations by:

- Suresh Dhaniyala, Clarkson University
- Zhi Ning, The Hong Kong University of Science and Technology
- Matthew Landis, US EPA Office of Research and Development

11:00am – 11:30am **Session Break**

11:30am – 12:30am Concurrent Sessions – Group 1 continued...

East 1

EXPOSURE AND HEALTH

CHAIRS: David Balshaw, NIEHS & Linda Tombras Smith, CARB

Podium Presentations by:

- Rima Habre, University of Southern California
- Jeffery Williams, CARB
- John Balmes, UC San Francisco, and Berkeley

East 3 (ABCD)

MONITOR SITING

CHAIRS: Janice Lam Snyder, Sacramento Air Quality Management District & Holger Eisl, Queens College, City University of New York

Podium Presentations by:

- Ajith Kaduwela, AQRC, UC Davis
- Christine Kendrick, City of Portland Bureau of Planning and Sustainability
- Janice Lam Snyder, Sacramento Metropolitan AQMD

East 4 (EFGH)

EMERGING TECHNOLOGIES

CHAIRS: Ron Evans, US EPA & Yuxia Cui, NIH and NIEHS

Podium Presentations by:

- Kevin Cromar, NYU
- David Broday, Technion
- Philip Father, Scepter, Inc.

12:30am – 2:00pm Lunch Break & Exhibit Viewing – On your own

2:00pm – 3:00pm Concurrent Sessions – Group 2

East 1

CITIZEN & COMMUNITY SCIENCE #3

CHAIR: Amanda Kaufman, Office of Air Quality Planning and Standards, EPA

Podium Presentations by:

- Orly Stampfer, University of Washington
- Wendy Grisworld, University of Memphis
- Gregory Newmark, Kansas State University
- Hilary Hafner, Sonoma Technology

East 3 (ABCD)

SOURCE CHARACTERIZATION

CHAIRS: Iyad Kheirbek, C40 Cities, John Volckens, Colorado State University & Tarun Gupta, IIT Kanpur

Podium Presentations by:

- Ramachandran Subramanian,
 Carnegie Mellon University
- Jinsol Kim, UC Berkeley
- Andrew Grieshop, North Carolina State University
- Shaohua Hu, CARB

East 4 (EFGH)

DATA SHARING AND HARMONIZATION

CHAIRS: Christa Hasenkopf, Open AQ & Vasu Kilaru, EPA-NERL

- Vasu Kilaru, EPA-NERL
- Michel Gerboles, EC-JRC
- Luis Olmedo, CCV, IVAN AIR
- Janet Fredericks, Woods Hole Oceanographic Institution

3:00pm – 3:30pm Session Break

3:30pm – 4:30pm Concurrent Sessions – Group 2 Continued...

East 1

CITIZEN & COMMUNITY SCIENCE #3

CHAIRS: Amanda Kaufman, Office of Air Quality Planning and Standards, EPA

Podium Presentations by:

- Seung-Hyun Cho, RTI International
- Stephen Krabbe, US EPA Region 7
- Brian Miles, CGI

East 3 (ABCD)

SOURCE CHARACTERIZATION

CHAIRS: Iyad Kheirbek, C40 Cities, John Volckens, Colorado State University & Tarun Gupta, IIT Kanpur

Podium Presentations by:

- Jingkun Jiang, Tsinghua University
- Noami Zimmerman, The University of British Columbia
- Chelsea Preble, UC Berkeley
- Stephen Feinberg, ORAU and US EPA

East 4 (EFGH)

DATA SHARING AND HARMONIZATION

CHAIRS: Christa Hasenkopf, Open AQ & Vasu Kilaru, EPA-NERL

Podium Presentations by:

- John Graybeal, Stanford University
- David L. Elam, Jr., TRC
- Dan Webster, Sage Bionetworks
- Abhijit RS, EDF

4:30pm - 5:00pm Final Raffle

THANK YOU RAFFLE CONTRIBUTORS

SPEC Sensors, LLC

Bay Area Air Quality Management District uRADMonitor Wynd Technologies, Inc

Aeroqual

Apis, Inc

Thank You for Attending from the UC Davis AQRC!

Our mission at the AQRC is to facilitate research on the scientific, engineering, health, social, and economic aspects of gaseous and particulate atmospheric pollutants. The best way for us to facilitate the research and education of the world is through educational conferences like this. We thank you, as our attendees, for joining us to learn about new science and technology and for sharing your experiences and knowledge with the world.

We look forward to hosting you again for ASIC 2020!

To keep up to date with UC Davis AQRC events including ASIC 2020, join our mailing list:

https://www.surveymonkey.com/r/AQRC-email-sign-up

Visit our website to learn more about the UC Davis AQRC research activities and events:

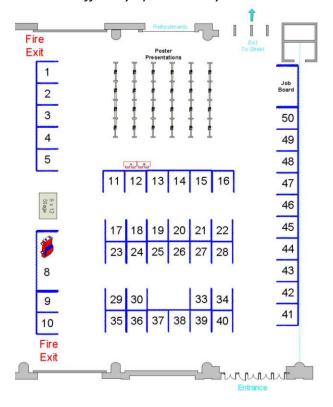
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Ambilabs	35
APIS AQ	13
AQMesh	42
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Axetris AG	36
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Organization	Booth
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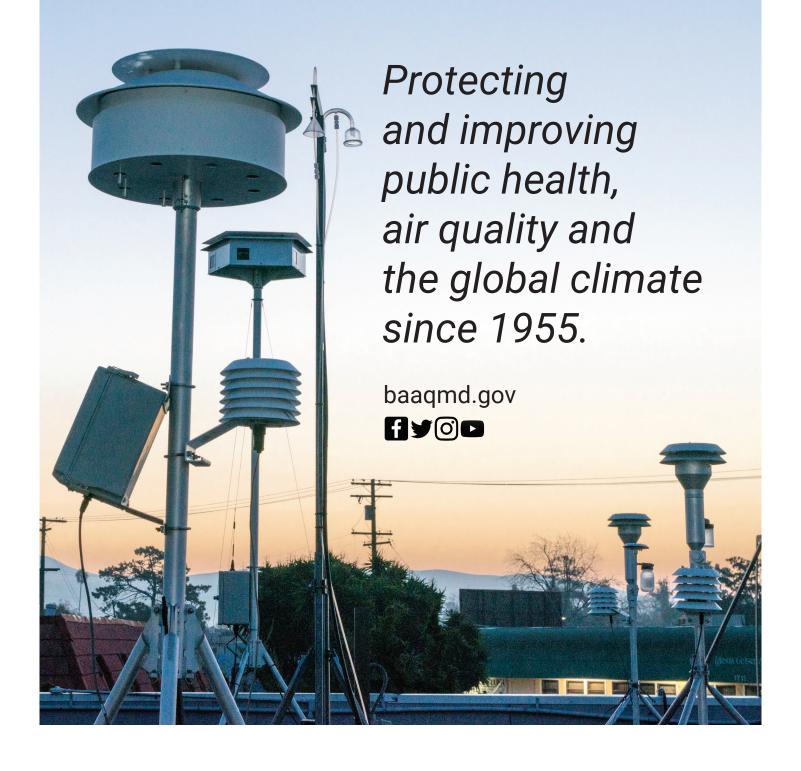


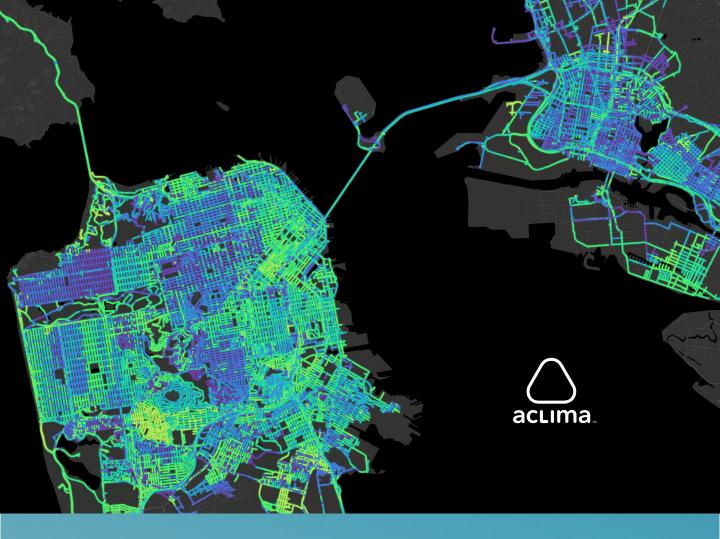


Fostering practical and innovative strategies to clean the air, South Coast Air Quality Management District is a proud sponsor of the Air Sensors International Conference.



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Message from the Editorial Board

Sensors (ISSN 1424-8220) is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes special issues devoted to specific sensing areas and application each year.

The scope of Sensors includes:

Physical sensors

Chemical sensors

Biosensors

lab-on-a-chip

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