Air Sensors International Conference

Advancing Science and Engaging Communities

October 17 - 19, 2023 Accra, Ghana

Ghana Program Podium Presentations

These principal presenters have been invited by our Technical Program Committee to share their expertise on this year's conference topics. We welcome you to submit an abstract or become an exhibitor or sponsor of the conference.

------- Community Based Participation in Using LCS -------

Participatory Air Quality Monitoring in African Cities: Empowering Communities, Enhancing Accountability, and Ensuring Sustainable Environments
> Presented by: Fidel Wabinyai, *AirQo*

Assessment of Personal Exposure to Particulate Matter Among Furniture Manufacturers
> Presented by: Abdou Safari Kagabo, *University of Rwanda*

Presentation
Abstracts

-------- Data Collection, Analysis and Interpretation --------

Algorithm for estimating particulate matter concentrations using Landsat 8 multi-spectral satellite images: An urban air quality mapping over Accra, Ghana
> Presented by: Cosmos Wemegah, *University of Energy and Natural Resources, Earth Observation Research and Innovation Centre*

Demonstrating the power of well-calibrated low cost sensors on the African continent: examples from East, West, and Central Africa
> Presented by: Daniel Westervelt, *Columbia University, Lamont-Doherty Earth Observatory*

Monitoring the Diurnal and Seasonal Variation of Ambient Particulate Matter (PM2.5) using Low-Cost Sensors in Juja, Kenya
> Presented by: Jospehine Ndiang'ui, *Jomo Kenyatta University of Agriculture and Technology*

Low-Cost Filter Collection for analysis of chemical composition of atmospheric aerosols in Africa
> Presented by: Solomon Bililign, *North Carolina A&T State University*

Presentation Abstracts

------ Data Utility & Action for Air Quality Management ------

Empowering cities with Air Quality Data Evidence to inform Policies and decision making
    Presented by: Simon Sambou, *C40 Cities*

Eko for Clean Air: a Case study on Public sector guidance, regulatory audit and enforcement changes driven by inclusive air quality and behavioral data collection systems in Lagos State, Nigeria
    Presented by: Abedola Odunsi, *GM LAESPA*

Air quality standards and the importance of an AQI for Ghana
    Presented by: Mrs. Esi Newquaye-Tetth, *Ghana EPA*

Health Exposure Assessment
    Presented by: Dr. Reginald Quansah, *Ghana EPA*

Presentation Abstracts

---------------- Policy Management ----------------

Using a low-cost sensor network for evidence driven air quality management in an African city: Lessons from Kampala, Uganda
    Presented by: Alex Ndyabakira, *Kampala Capital City Authority*

Air Pollution in Africa: Creating Healthier Cities for Future
    Presented by: Egide Kalisa, *University of Rwanda*

Johannesburg's Innovative Utilization of LCS Data to Embrace Ambitious Clean Air Targets
    Presented by: Lindelani Munyadwiza, *City of Johannesburg*

Fusing Small sensors with policymaking: a transdisciplinary approach to measuring urban air pollution
    Presented by: Sean Schmitz, *Research Institute for Sustainability, Helmholtz Centre Potsdam*

Presentation Abstracts

----------- Making Sense of Sensor Data ------------

Getting useful. actionable data out of low cost sensors in Africa
        Presented by: Garima Raheja, *Columbia University*

Preliminary study of in-car air pollution using optical particle counters
        Presented by: Bertrand Tchanche, *Alioune Diop University*

PM2.5 levels in an unstudied area of rural Ghana using relatively low-cost sensors
        Presented by: Matthias Napar Neina, *University of Environment and Sustainable Development, Somanya*

Presentation Abstracts

Utilizing Various Communication Strategies to Increase Public ------------ Engagement on Air Pollution ------------

Role of Journalism in Increasing Public Engagement on Air Pollution; Insights from EJN Media Workshop in Nairobi
        Presented by: Jackline Lidubwi, *Internews Network*

Youth-driven citizen science for healthy climate resilient cities
        Presented by: Monika Kamkuemah, *University of Pretoria*

Communicating air sensor data: co-designing visualisations through the Breathe London Community Programme
        Presented by: Kayla Schulte, *Imperial College London*

Enabling participatory approaches to co-designing of air quality management solutions: The AirQo Experience
        Presented by: Maclina Birungi, *AirQo*

Presentation Abstracts

Adapting Low Cost Sensors for Smart Air Quality Monitoring --------- Quality Monitoring in African Cities ---------

Low-cost Sensors Development and Deployment
        Presented by: Gideon Maina, *Code for Africa*

AirQo sensor kit: an air quality sensing kit custom designed for low-resource settings
    Presented by: Gideon Lubisia, *AirQo*

The Lifecycle of Low-Cost Sensor Networks for Air Quality Data in African Cities
    Presented by: Usman Ahmed, *Code for Africa*

<div align="center">

Presentation Abstracts

</div>

Registration

Registration is open!

ASIC brings top scientists from around the world to share their research findings and discuss new approaches and methods to improve on our
ever-developing understanding of air quality sensors. Find registration information and forms in the links below. Be sure to share the
conference with friends and colleagues!

Registration Information   **Share the Conference**

Questions? Contact the Conference Manager, Sandra Hemingway at
sehemi@ucdavis.edu.