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Catalyzing Air Quality Improvement in Africa Through Rigorous Low-Cost Sensor Evaluation: The Afri-SET Approach

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Good air quality is critical to our health and well-being. Lack of air quality monitors, diverse pollution sources and unique weather patterns make air quality monitoring a difficult throughout Africa. Afri-SET, a new air quality sensors evaluation and training facility at the Department of Physics, University of Ghana is addressing these issues. The facility is evaluating low-cost sensors (LCS) from various manufacturers worldwide and developing calibration models, providing open access data, training, and capacity building in the use of LCS and reference monitors. Afri-SET is available to the public and has the potential to significantly improve air quality throughout West Africa and beyond by collecting high-quality data to facilitate more effective decision and policy making. This presentation will highlight the need for such a facility to address air quality issues, the potential of sensor technology, and the significance of rigorous sensor evaluation in community empowerment and policy influence.

Author: HUGHES, Allison Felix (Department of Physics, University of Ghana, Legon, Accra, Ghana)

Presenter: HUGHES, Allison Felix (Department of Physics, University of Ghana, Legon, Accra, Ghana)

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