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DESIGN FOR DEVELOPMENT
Architecture, Urban Planning and Heritage in the Global South

Locally Developed Low Cost Particulate Matter Sensors for Modeling PM2.5 in Uganda

Streaming on Tuesday
9 June – h 15:00 CET

Eric S. Coker
University of Florida

Eric S. Coker

Assistant Professor at Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida, Gainesville, FL

will present

Locally Developed Low Cost Particulate Matter Sensors for Modeling PM2.5 in Uganda
(joint with Joel Ssematimba and Engineer Bainomugisha)

Conventional air pollution monitoring networks suffer from spatial sparsity, which limits the characterization of spatial heterogeneity and exposure estimation of urban ambient air pollutant levels. Moreover, lower-income countries in sub-Saharan Africa lack virtually any air pollution monitoring due the high-end costs associated with procuring and maintaining instruments as well as a general lack of public investment in environmental monitoring programs. Locally derived low cost air quality sensor networks in sub-Saharan Africa can address several of these challenges; including overcoming costing barriers, spurring public investment in environmental monitoring, and utilization of sensors tailored to the region's socioeconomic and environmental context.

Introduced by **Enrico Lippo,** Research Fellow at Fondazione Eni Enrico Mattei

The webinar will be held in English and is part of the "Research and Policy Webinars on African Development: Urbanisation and Sustainability" series.