



Air Quality Monitoring and Modelling Advances

The Institute of Structural Engineers, London

Wednesday 26th March 2025, 13:00 – 16:30

Abstract

Air quality is crucial for public health and environmental sustainability. According to a 2020 report by Public Health England, air pollution is estimated to contribute to between 28,000 and 36,000 deaths annually in the UK. Long-term exposure to pollutants like nitrogen dioxide (NO₂) and particulate matter (PM_{2.5}) is linked to various serious health conditions, including heart disease, stroke, and lung cancer. Improving air quality is also essential for meeting climate targets. In this meeting, we will discuss advances in the monitoring and modelling of air pollution and consider challenges ahead with a UK focus.

Meeting Organiser – Natalie Harvey & Greg Dewhurst

13:00	Registration & Refreshments	
13:30	Welcome and Introduction (10 mins)	Greg Dewhurst, Met Office
13:40	Outdoor and indoor air pollution – From health evidence to future policy. (30 mins)	Kaja Milczewska, UKHSA (She/Her)
14:10	Quantifying the Causal Effect of Emissions and Interventions on Air Quality (30 mins)	Marc Stettler, Imperial College London
14:40	Pollen Forecasting in the UK (30 mins)	Lucy Neal, Met Office
15:10	Refreshment Break (20 mins)	
15:30	The Met Office Air Quality Data Portal (30 mins)	Paul Agnew, Met Office
16:00	Participatory Approaches to Airborne Microplastic Measurement (30 mins)	Ben Williams, UWE (He/Him)
16:30	Meeting Close	

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This meeting is part of the Royal Meteorological Society National Meetings programme, open to all, from expert to enthusiast, for topical discussions on the latest advances in weather and climate. Non-members are welcome to attend these meetings.