

Gas Analysis & Sensing Group – 90th Meeting 5th Early Career Researchers Forum Programme

Thursday, 20th March 2025

Crowcon Detection Instruments Ltd, Abingdon, OX14 4SD



- 10:00 **Registration & Coffee**
- 10:30 **Introduction To The Morning Session**
Chair – James Bremner (GASG)
- 10:35 **Plenary Lecture - The past, present and future of volatile analysis for disease diagnoses using GCMS and sensor technologies**
Norman Ratcliffe (University of the West of England)
- 11:15 **Using Micro-Drilled Anti-Resonant Fibre For A Sensitive, Fast Response Gas Detector**
Eleanor Warrington (University of Oxford)
- 11:30 **Effect Of Temperature On UV Bandpass Filter Performance In Non-Dispersive UV Formaldehyde Sensing**
Princy Grace Athisayarasa (Cranfield University)

- 11:45** **A Comparison Of Humidity Probes And Measurement Uncertainty**
Nathan Watson (AWE)
- 12:00** **Respirable Fibre Detection From Light Scattering Patterns**
Rob Lewis (University of Hertfordshire)
- 12:15** **Transforming Infection Control With AI-Driven VOC Detection: A Digital Nose For C. difficile**
Ali Rohafza (Altered Carbon Ltd)
- 12:30** **Lunch, Networking & Tours (Subject To Operational Availability)**
-
- 13:50** **Introduction To The Afternoon Session**
Chair – James Bremner (GASG)
- 13:55** **Oxygen Monitoring In Wire And Arc Additive Manufacturing**
Nina Binaei (Cranfield University) *PRERECORDED*
- 14:10** **A Low-Cost Sensor Network Approach To Monitoring Atmospheric Greenhouse Gas In Rural Settings**
Olaekan Popoola (University of Cambridge)
- 14:25** **Light Sensing Of Pollen Using Artificial Intelligence**
James A. Grant-Jacob (University of Southampton)
- 14:40** **Photoacoustic Spectroscopy: From Lab To Field**
Euan Martin (University of Strathclyde & Emerson Automation Solutions)
- 14:55** **Electronics Design For Implementation Of Gas Sensors**
Giovanna Trevizan Rocha (Crowcon Detection Instruments)
- 15:10** **Detection Of Rust Corrosion Through Headspace Analysis By Electronic Nose**
Ines Carotti (University of Warwick)

15:25 Self-Cleaning Face Masks Against COVID-19
Sara Krog (Breathe Smarter Ltd)

15:40 Tea & Judging

15:55 Prizegiving

16:00 Close Of Meeting
