

2024 Clean Air Conference

Analysis and Solutions: Responding to the Clean Air Challenge

2nd and 3rd October

Edgbaston Park Hotel and
Conference Centre, Birmingham



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Conference Forward

The 2024 UKRI/Met Office Clean Air Conference, “**Analysis and Solutions: Responding to the Clean Air Challenge,**” will take place at Edgbaston Park Hotel and Conference Centre in Birmingham on the 2nd and 3rd of October 2024. This interdisciplinary event will bring together researchers, policymakers, industry professionals and representatives from non-profit organisations to create a platform for sharing insights and building relationships within the clean air community.

The conference will focus on 13 themes, as listed:

1. Air Pollution – Diverse Exposure Effects
2. Characterising Indoor Air Quality
3. The Changing Face of Ambient Air Quality
4. Air Quality and Net-Zero
5. Vulnerabilities and Inequalities in the Indoor Environment
6. Variations in Exposure to Indoor Pollution
7. Cross-disciplinary research towards solutions
8. Clean Air – The Need for Multi-sector Actions
9. New Tools for Air Quality Analysis
10. Emissions and Sources of Modern Air Pollution
11. Policy Application and Communication
12. Transport and Air Quality: Methods and Solutions
13. The Application of Air Quality Sensors

The event will feature talks and panel discussions from leaders in the field to help set the scene in topics such as the role of air pollution in the social determinants of health, inequalities, and the more recently recognised links to mental health. The conference will be exploring patients and the wider public's needs as well as the use of data science in connecting atmospheric and health data. We will be including special sessions for early career researchers (including chairing of sessions) and will be discussing the future of how we can continue to improve the air we all depend upon for life by building a Clean Air Research Community. The centrepiece of this will be our annual Martin Williams Lecture given this year by Prof Ally Lewis.

The substance of the 2 days will feature presentations and demonstrations of the research undertaken during the UKRI Clean Air SPF. We hope to use the various presentations to highlight the importance of community engagement, share valuable insights, and address the impacts of air pollution through effective policy measures. There will be an emphasis on community engagement in understanding and tackling air pollution issues, as well as providing actionable recommendations for policymakers to mitigate the harmful effects of air pollution on public health and the environment. By focusing on these aspects in the submitted abstracts, we can effectively communicate the significance of the work in air quality and its potential contributions to health and wellbeing in society and vulnerable groups as well as harnessing innovation.

Sessions and discussions will be geared towards exploring innovative strategies, sharing success stories, and fostering collaborations to drive meaningful impact. We hope the conference will inspire participants to take actions that will contribute to long-term positive change, so that our collective efforts lead to lasting and transformative outcomes.

We are thankful to the following organisations for their support:

Asthma And Lung UK

BioAirNet

Breathing City – Future Urban Ventilation Network (FUVN)

Cambustion

Dyson

Global Action Plan

Greater London Authority

HEICCAM

HIPTox

Institution of Environmental Sciences (IES)

Met Office

National Physical Laboratory

Philips

The Health Foundation

WM-Air

WM Net-Zero

Tackling Air Pollution At School (TAPAS)

Transition

Natural Environment Research Council

Wellhome

Programme Overview

KEYNOTE PRESENTATIONS

All Keynote Presentations will take place in the Fry Suite.

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| Wednesday 2 nd October 10.40 – 11.00 | Social Justice and Health <i>Speaker: Professor Sir Michael Marmot</i> <i>Chair: Professor Sir Stephen Holgate</i> |
| Thursday 3 rd October 09.30 – 10.00 | Air Quality and Mental Health – Evidence, Challenges and Future Directions <i>Speaker: Professor Kamaldeep Bhui</i> <i>Chair: tbc</i> |
| Thursday 3 rd October 14.00 – 14.30 | AI, Air Quality and Health – A Breath of Fresh Air <i>Speaker: Professor Dave Topping</i> <i>Chair: Lara Edwards</i> |
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LECTURES/ TALKS

All Lectures/ talks will take place in the Fry Suite.

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| Wednesday 2 nd October 11.00 – 11.15 | Welcome from NERC/ UKRI <i>Speaker: Professor Louise Heathwaite</i> <i>Chair: Professor Sir Stephen Holgate</i> |
| Wednesday 2 nd October 11.15 – 11.35 | Challenges and Opportunities for Science to Influence Policy <i>Speaker: Professor Dame Judith Petts</i> <i>Chair: Noel Nelson</i> |
| Wednesday 2 nd October 17.15 – 17.45 | Fighting for Clean Air <i>Speaker: Sarah Sleet</i> <i>Chair: tbc</i> |
| Thursday 3 rd October 14.30 – 15.00 | Martin Williams Lecture - The Future of Air Quality: Opportunities and Challenges <i>Speaker: Professor Alastair Lewis</i> <i>Chair: Dr Gary Fuller</i> |

PANEL SESSIONS

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|---|--|-----------|
| Wednesday 2 nd October 1.50 – 12.20 | Tackling Health Inequalities Through Actions to Improved Quality <i>Lead: Agnes Agyepong</i> <i>Chair: Dr Suzanne Bartington</i> | Fry Suite |
| Wednesday 2 nd October 15.45 – 17.15 | Clean Air – The Need for Multi-Sector Actions <i>Lead: Chris Taylor</i> <i>Co-Chair: Dr Naomi Bennett-Steele</i> | Elgar |
| Thursday 3 rd October 10.30 – 11.10 | Empowering Regions: The Impact of Evolution on Devolved Administrations <i>Lead: Dr Heather Price</i> <i>Co-Chair: Professor Paul Lewis</i> | Fry Suite |
| Thursday 3 rd October 15.15 – 16.15 | Panel 5: Improving Air Quality – Next Steps <i>Lead: Dr Sarah Moller</i> <i>Co-Chair: Dr Clair Holman</i> | Fry Suite |

PARALLEL SESSIONS

| Wednesday 2 nd October: 14.00 – 15.15 | | | | Wednesday 2 nd October: 15.45 – 17.15 | | | |
|--|--|-----|--|--|--|-----|---|
| 1.1 | Air Pollution – Diverse Exposure Effects <i>Chair: Prof Matt Loxham</i> <i>Co-Chair: Dr Kirsty Meldrum</i> Room: Bantock | 1.2 | Characterising Indoor Air quality <i>Chair: Prof Catherine Noakes</i> <i>Co-Chair: Dr Alejandro Moreno-Rangel</i> Room: Corelli | 1.5 | Vulnerabilities and Inequalities in the Indoor Environment <i>Chair: Larissa Lockwood</i> <i>Co-Chair: Dr Douglas Booker</i> Room: Bantock | 1.6 | Variations in Exposure to Indoor Pollution <i>Chair: Dr Henry Burrige</i> <i>Co-Chair: Marta O'Brien</i> Room: Corelli |
| 1.3 | The Changing Face of Ambient Air Quality <i>Chair: Prof William Bloss</i> <i>Co-Chair: Lilli Helps</i> Room: Lodge | 1.4 | Air Quality and Net-Zero <i>Chair: Prof Anil Namdeo</i> <i>Co-Chair: Emma Gibbons</i> Room: Elgar | 1.7 | Cross – Disciplinary Research Towards Solutions <i>Chair: Dr Heather Price</i> <i>Co-Chair: Dr Darpan Pas</i> Room: Lodge | 1.8 | Panel 2: Clean Air – The Need for Multi-Sector Actions <i>Lead: Chris Taylor</i> <i>Co-Chair: Dr Naomi Bennett-Steele</i> Room: Elgar |
| Thursday 3 rd October: 11.30 – 13.00 | | | | | | | |
| 2.1 | New Tools for Air Quality Analysis <i>Chair: Tom Gardiner</i> <i>Co-Chair: Alice Handy</i> Room: Corelli | 2.2 | Emissions and Sources of Modern Air Pollution <i>Chair: Dr Gary Fuller</i> <i>Co-Chair: Dr Nat Easton</i> Room: Lodge | | | | |
| 2.3 | Policy Application and Communication <i>Chair: Noel Nelson</i> <i>Co-Chair: Dr Joe Acton</i> Room: Bantock | 2.4 | Transport and Air Quality: Methods and Solutions <i>Chair: Dr Suzanne Bartington</i> <i>Co-Chair: Prof Ruth Doherty</i> Room: MacNeice | | | | |
| 2.5 | The Application of Air Quality Sensors <i>Chair: Prof Paul Lewis</i> <i>Co-Chair: Dr Kayla Schulte</i> Room: Elgar | | | | | | |

Programme Day 1
Wednesday 2nd October

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| 09.00 – 10.20 | Early Career Researcher (ECR) Breakfast | Composer Suite |
| 09.30 – 10.30 | Registration, Refreshments and Exhibits | Fry Lounge |

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| <i>Chair: Professor Sir Stephen Holgate</i> | | Fry Suite |
| 10.30 - 10.40 | Welcome | Opening speech: Professor Sir Stephen Holgate, MRC Clinical Professor of Immunopharmacology and UKRI Clean Air Champion, University of Southampton |
| 10.40 – 11.00 | Keynote 1 | Social Justice and Health: Professor Sir Michael Marmot CH, UCL Institute of Health Equity, UCL Dept of Epidemiology and Public Health |
| 11.00 – 11.15 | Address from NERC [On-line] | An Address by NERC Executive Chair: Professor Louise Heathwaite CBE, Executive Chair, Natural Environment Research Council (NERC) and Distinguished Professor, Lancaster Environment Centre, Lancaster University |

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| <i>Chair: Noel Nelson</i> | | Fry Suite |
| 11.15 – 11.35 | Judith Petts talk | Challenges and Opportunities for Science to Influence Policy: Professor Dame Judith Petts DBE, Vice Chancellor and Chief Executive, University of Plymouth |

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| 11.35 – 11.50 | Coffee/Tea Break | Fry Lounge |
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| <i>Chair: Dr Suzanne Bartington</i> | | Fry Suite |
| 11.50 – 12.20 | Panel | Tackling Health Inequalities Through Actions to Improve Air Quality: Agnes Agyepong, founder and CEO of Global Black Maternal Health Institute Panel Participants: Dr Abigail Whitehouse, Professor Sir Michael Marmot, Professor Dame Judith Petts |

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| <i>Chair: Dr Gary Fuller</i> | | Fry Suite |
| 12.20 – 12.50 | Sponsors | In this session, sponsors of this event will provide a brief introduction to their organisations and their work in Clean Air. |
| 12.50 – 13.00 | Introduction to Parallel Sessions | Dr Gary Fuller will introduce the Parallel session for today and provide instructions for attendance at these sessions. |

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| 13.00 – 14.00 | Lunch, Poster Presentations and Exhibits | Fry Lounge /Restaurant |
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**14.00 - 15.15
Parallel Sessions**

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|------------|--|---|------------------------|
| 1.1 | <i>Chair: Matt Loxham Co-Chair: Kirsty Meldrum</i> | Air Pollution – Diverse Exposure and Effects | Bantock |
| | Dawei Hu | Integrated particle generation protocol for in vivo/vitro studies: emissions from diesel engine, wood combustion, cooking, and cleaning products. | Abstracts Page: 3-6 |
| | Norrice Liu | Translocation of inhaled particulate matter to red blood cells after real-life ambient exposure during commute. | |
| | Thomas Faherty | Acute particulate matter exposure diminishes executive cognitive functioning after 4 hours, regardless of inhalation pathway. | |
| | Danny Kane | Nooku: the evolving AQ landscape | |

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| 1.2 | <i>Chair: Catherine Noakes Co-Chair: Alejandro Moreno-Rangel</i> | Characterising Indoor Air quality | Corelli |
| | Sari Budisulistiorini | A Novel Mobile Air Quality Measurement for Emerging Indoor Emission Sources | Abstracts Page: 7-10 |
| | Giorgos Petrou | Does the location of sensors matter when monitoring indoor air pollutant exposure in UK homes? | |
| | Alice Handy | Investigating how ventilation alters particulate matter concentrations in classrooms | |
| | Mike Hedges | Aerosol size distribution, PM chemical composition and gaseous measurements in homes | |

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| 1.3 | <i>Chair: William Bloss Co-Chair: Lilli Helps</i> | The Changing Face of Ambient Air Quality | Lodge |
| | James Brean | Will declining condensation sinks lead to enhanced New Particle Formation? | Abstracts Page: 11 - 14 |
| | Carys Williams | Calculation of NOx/CO2 emission ratios from high resolution roadside data | |
| | Sami Ullah | Good for soil, grim for the air: ammonia emissions from nitrogen fertilised soils and their controlling factors | |
| | Junjun Xiang | Telematics data to estimate the impacts of calendar and meteorological events on transport emissions at high spatio-temporal resolutions. | |

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| 1.4 | <i>Chair: Anil Namdeo Co-Chair: Emma Gibbons</i> | Air Quality and Net-Zero | Elgar |
| | James Hodgson | Improving air quality and environmental health inequalities in a metropolitan area of the United Kingdom | Abstracts Page: 15-18 |
| | Douglas Booker | Towards a just transition: Delivering healthy net zero homes | |
| | Jian Zhong | Modelling the impacts of net zero policies on air quality and health equity in the West Midlands, UK. | |
| | Naomi Bennett-Steele | ANTICIPATE: Adopting a whole systems approach to net zero: a participatory systems mapping case study | |

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| 15.15 – 15.45 | Coffee/Tea Break | Fry Lounge |
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**15.45 – 17.15
Parallel Sessions**

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| 1.5 | <i>Chair: Larissa Lockwood Co-Chair: Douglas Booker</i> | Vulnerabilities and Inequalities in the Indoor Environment | Bantock |
| | Evangelia Chatzidiakou | Thermal comfort, air change rates and levels of particulate matter in 300 homes in Bradford: preliminary results of the INGENIOUS project | Abstracts Page: 20 - 24 |
| | Zaheer Nasar | Transforming the real-time detection and characterisation of bioaerosols | |
| | Sophie Reed | RESPIRE: Unraveling Maternal Vulnerabilities to Indoor Air Pollution | |
| | Alice Turner | A Mixed Methods Study to Determine the Sources and Impact of Indoor Air Pollution in Patients with Chronic Respiratory Disease. | |
| | Ben Barrett | Challenges associated with personalising air pollution exposure models – Experience gained from the APEX study | |

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| 1.6 | <i>Chair: Henry Burridge Co-Chair: Marta O'Brien</i> | Variations in Exposure to Indoor Air Pollution | Corelli |
| | Diana Varaden | WellHome: A Community-Based Study for Investigating Indoor Air Pollution in an Urban Community in London | Abstracts Page: 25 - 28 |
| | David Shaw: | The impact of air change rates on the indoor air chemistry of homes in Bradford: a modelling study within the INGENIOUS project | |
| | Yunqi Shao: | Exploring the Chemical Characteristics of Particulate Matter in Real Household Environments in Bradford, UK | |
| | Roberto Sommariva: | A study of cooking and cleaning activities with the MBM-Flex indoor air quality mode | |

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| 1.7 | <i>Chair: Heather Price Co-Chair: Darpan Das</i> | Cross-Disciplinary Research Towards Solutions | Lodge |
| | Emma Marczylo | Facilitated workshops to promote global collaboration for improved exposure and health impact assessment of bioaerosols | Abstracts Page: 29 - 33 |
| | Lucy Neal | Met Office Air Quality Data Portal | |
| | Kayla Schulte | Breathe London: Evaluating behavioral and civic outcomes associated with co-designed air pollution data visualisations and messaging. | |
| | Nat Easton | Lessons Learnt on Establishing Communities and Engaging Participants in Air Quality Studies | |
| | Paul Andrews | CAGE | |

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| 1.8 Panel | <i>Chair: Chris Taylor Co-Chair: Naomi Bennett-Steele</i> | Clean Air: The Need for Multi-Sector Actions | Elgar |
| | Norrice Liu | Air pollution and children's respiratory health: What we know and what we need to know. | Abstracts Page: 34 - 38 |
| | Kevin O'Malley | Realising the Potential of the UK's Clean Air Tech Sector | |
| | Malcom White | Educating Health Professionals on Clean Air - Reflections and Evidence from 5+ pilot projects. Considering Next Steps in this Campaign | |
| | Amber Yeoman | Ten questions concerning the future of residential indoor air quality and its environmental justice implications - HEICCAM Early Career Researchers collaboration | |

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| <i>Chair: tbc</i> | | Fry Suite |
| 17.15 – 17.45 | Sarah Sleet talk | Fighting for Clean Air: Sarah Sleet, CEO Asthma + Lung UK |

17.45 – 19.30
Free Time

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| 19.30 – 21.30 | Conference Dinner <i>Informal Dress</i> | Fry Suite |
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Programme Day 2
Thursday 3rd October

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| 08.30 – 09.30 | Early Career Researcher (ECR) Event: Media Session | Composer Suite |
| 09.00 – 09.30 | Registration, Refreshments and Exhibits | Fry Lounge |

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| <i>Chair: tbc</i> | | Fry Suite |
| 09.30 – 10.00 | Keynote 2 | Air Quality and Mental Health – Evidence, Challenges and Future Directions: Professor Kamaldeep Bhui, Professor of Psychiatry, Nuffield, Senior Research Fellow, University of Oxford |

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| <i>Chair: Douglas Booker</i> <i>Co-Chair: Nat Easton</i> | | Fry Suite |
| 10.00 – 10.30 | ECR Feedback | ECR Visions for the Future of Clean Air |

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| <i>Chair: Heather Price</i> <i>Co-Chair: tbc</i> | | Fry Suite |
| 10.30 – 11.10 | Panel | Empowering Regions: The Impact and Evolution of Devolved Administration Panel Participants: Roger Herbert, Neil Rowland, Andrew Taylor |

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| 11.10 – 11.15 | Introduction to the Parallel Sessions | Dr Gary Fuller will introduce the Parallel session for today and provide instructions for attendance at these sessions. |
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| 11.15 – 11.30 | Coffee/ Tea Break | Fry Lounge |
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11.30 – 13.00
Parallel Sessions

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| 2.1 | <i>Chair: Tom Gardiner</i> <i>Co-Chair: Alice Handy</i> | New Tools for Air Quality Analysis | Corelli |
| | Eleanor Smith | A reanalysis of air quality in the UK | Abstracts Page: 40 - 45 |
| | Jenny Stocker | The Multi-model Air Quality System (MAQS): description and applications | |
| | Megan McGrory | Variability of anthropogenic emissions and exposure in London: model results | |
| | Chengxu Tong | Using Machine Learning and Causal inference to evaluate the effects of London Ultra Low Emission Zone. | |
| | Matt Thomas | A Data Integration Approach to Estimating Personal Exposures to Air Pollution | |

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| 2.2 | <i>Chair: Gary Fuller</i> <i>Co-Chair: Nat Easton</i> | Emissions and Sources of Modern Air Pollution | Lodge |
| | John Casey | PM2.5 from domestic wood & solid fuel burning - impact from lounge to London-wide | Abstracts Page: 46 - 49 |
| | Eiko Nemitz | Source analysis of organic compounds using flux measurements at the BT Tower, London | |
| | Srivastava Deepchandra | Sources of the fine particulate matter (PM2.5) in the West Midlands using multiple receptor modelling approaches | |
| | Pablo Martin | Urban NH3 in the UK: Are we measuring in the right places? | |

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| 2.3 | <i>Chair: Noel Nelson</i> <i>Co-Chair: Joe Acton</i> | Policy Application and Communication | Bantock |
| | Yasmine El-Gabry | Applying research to policy solutions for clean air (workshop/applied discussion) | Abstracts Page: 50 - 53 |
| | James Hall | Regional Health Impact related to Air Quality: The Air Quality Lifecourse Assessment Tool (AQ-LAT) for the West Midlands Combined Authority (WMCA) geography | |
| | Malcom White | Educating Health Professionals on Clean Air - Reflections and Evidence from 5+ pilot projects. Considering Next Steps in this Campaign | |
| | Yuqing Dai | AQPET — An R package for air quality policy evaluation | |
| | Bill Parish | AQIS | |

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| 2.4 | <i>Chair: Suzanne Bartington</i> <i>Co-Chair: Ruth Doherty</i> | Transport and Air Quality: Methods and Solutions | MacNeice |
| | Lilli Helps | Quantifying changes in air pollution concentrations caused by traffic interventions | Abstracts Page: 54 - 56 |
| | Mark Longden | AutoAlign: the lifetime impact of air pollution | |
| | Mark Peckham | Short-term public exposure to high levels of NO & NO2: some applications of millisecond analyzers | |

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| 2.5 | <i>Chair: Paul Lewis</i> <i>Co-Chair: Kayla Schulte</i> | The Application of Air Quality Sensors | Elgar |
| | Charlie Lam | Air quality monitoring using sensor network and mobile transect at University Hospitals Plymouth' | Abstracts Page: 57 - 61 |
| | Rajit Gupta | Empirically measuring indoor air pollutants with low-cost and high-cost sensors in a low-carbon home retrofit | |
| | Ajit Singh | Evaluating the impact of School Street Interventions on air quality at Primary Schools in Oxfordshire | |
| | Connor Young | Land-use regression modelling of outdoor volatile organic compounds in Leicester, UK: improving spatial resolution of exposure assessment tools | |

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| 13.00 - 14.00 | Lunch, Poster Presentations and Exhibits | Fry Lounge/ Restaurant |
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| <i>Chair: Lara Edwards</i> | | Fry Suite |
| 14.00 – 14.30 | Keynote 3 | AI, Air Quality and Health – A Breath of Fresh Air: Professor Dave Topping, Professor of Digital Environment, Centre for Atmospheric Science, The University of Manchester |

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| <i>Chair: Gary Fuller</i> | | | Fry Suite |
| 14.30 – 15.00 | Martin Williams Lecture | The Future of Air Quality – Opportunities and Challenges: Professor Alastair Lewis, Professor of Atmospheric Chemistry, The National Centre for Atmospheric Science (NCAS), University of York, Chair of the Air Quality Group (AQEG) | |
| 15.00 – 15.15 | | Coffee/Tea Break | Fry Lounge |
| <i>Chair: Sarah Moller</i> <i>Co-Chair: Dr Clair Holman</i> | | | Fry Suite |
| 15.15 – 16.15 | Panel | Improving Air Quality – The Next Steps Panel Participants: John Newington, Alastair Lewis, Lara Edwards, Nat Easton | |
| 16.15 – 16.30 | Closing Statements | Professor Sir Stephen Holgate | Fry Suite |
| 16.30 | Conference closes | | |

Hosts and Speakers (List)

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| 1. Acton, Dr Joe | University of Birmingham | Day 2 (11.30 – 13.00) |
| 2. Agyepong, Dr Agnes | Global Black Maternal Health Institute | Day 1 (11.50-12.20) |
| 3. Andrews, Paul | CAGE Technologies Ltd and Oak Tec | Day 1 (15.45 – 17.15) |
| 4. Barrett, Prof Ben | Imperial College, London | Day 1 (15.45 – 17.15) |
| 5. Bartington, Dr Suzanne | University of Birmingham, UKRI Clean Air Champion | Day 1 (11.35 – 12.20) Day 2 (11.30 – 13.00) |
| 6. Bennett-Steele, Dr Naomi | Asthma UK and the British Lung Foundation, The Health Foundation | Day 1 (14.00 -15.15) (15.45 – 17.15) |
| 7. Bloss, Professor William | University of Birmingham | Day 1 (14.00 -15.15) |
| 8. Booker, Dr Douglas | NAQTS, Leeds University), UKRI Clean Air Regional Champion for NW and West Midlands | Day 1 (14.00 -15.15) (15.45 – 17.15) Day 2 (10.00 – 10.30) |
| 9. Brean, Dr James | University of Birmingham | Day 1 (14.00 -15.15) |
| 10. Burridge, Dr Henry | Imperial College, London. | Day 1 (15.45 – 17.15) |
| 11. Bhui, Professor Kamaldeep | University of Oxford | Day 2 (09.30 – 10.00) |
| 12. Budisulistiorini, Professor Sari | University of York. | Day 1 (14.00 -15.15) |
| 13. Casey, John | Imperial College London | Day 2 (11.30 – 13.00) |
| 14. Chatzidiakou, Dr Evangelia | University of Cambridge. | Day 1 (15.45 – 17.15) |
| 15. Dai, Dr Yuqing | University of Birmingham. | Day 2 (11.30 – 13.00) |
| 16. Das, Dr Darpan | University of York | Day 1 (15.45 – 17.15) |
| 17. Doherty, Professor Ruth | The University of Edinburgh, HEICCAM | Day 2 (11.30 – 13.00) |
| 18. Easton, Dr Nat | University of Southampton | Day 1 (15.45 – 17.15) Day 2 (10.00 – 10.30) (11.30 – 13.00) (15.15 – 16.15) |
| 19. Edwards, Lara | Health Data Research UK (HDRUK) | Day 2 (14.00 – 14.30) (15.15 – 16.15) |
| 20. Faherty, Dr Thomas | University of Birmingham. | Day 1 (14.00 -15.15) |
| 21. Fuller, Dr Gary | Imperial College, London, UKRI Clean Air Champion. | Day 1 (12.20 – 13.00) Day 2 (11.10 – 11.15) (11.30 – 13.00) (14.30 – 15.00) |
| 22. Gardiner, Tom | National Physical Laboratory (NPL) | Day 2 (11.30 – 13.00) |

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| 23. Gibbons, Emma | University College London. | Day 1 (14.00 -15.15) |
| 24. Gupta, Professor Rajat | Oxford Brookes University | Day 2 (11.30 – 13.00) |
| 25. Handy, Dr Alice | Imperial College, London | Day 1 (14.00 -15.15) Day 2 (11.30 – 13.00) |
| 26. Hall, Dr James | University of Birmingham. | Day 2 (11.30 – 13.00) |
| 27. Heathwaite, Professor Louise | NERC, Lancaster University | Day 1 (11.00 – 11.15) |
| 28. Hedges, Mike | Imperial College, London | Day 1 (14.00 -15.15) |
| 29. Helps, Lilli | University of Leicester. | Day 1 (14.00 -15.15) Day 2 (11.30 – 13.00) |
| 30. Herbert, Roger | Welsh Government. | Day 2 (10.30 – 11.00) |
| 31. Hodgson, Dr James | University of Birmingham. | Day 1 (14.00 -15.15) Day 2 (16.15 – 16.30) |
| 32. Holgate, Professor Sir Stephen | University of Southampton | Day 1 (10.30 – 10.40) |
| 33. Holman, Dr Claire | Air Pollution Services | Day 2 (15.15 – 16.15) |
| 34. Hu, Dawei | University of Manchester | Day 1 (14.00 – 15.15) |
| 35. Kane, Danny | Nooku, Air Quality Monitoring Solutions | Day 1 (14.00 -15.15) |
| 36. Lam, Dr Charlie | University of Plymouth | Day 2 (11.30 – 13.00) |
| 37. Lewis, Professor Paul | Swansea University, UKRI Regional Champion for Wales | Day 2 (10.30 – 11.00) (11.30 – 13.00) |
| 38. Lewis, Professor Alastair | University of York, Air Quality Expert Group (AQEG) | Day 2 (14.30 – 15.00) Day 2 (15.15 – 16.15) |
| 39. Lockwood, Larissa | Global Action Plan (GAP) | Day 1 (15.45 – 17.15) Day 2 (11.30 – 13.00) |
| 40. Longden, Mark | RL Automotive | Day 2 (11.30 – 13.00) |
| 41. Loxham, Professor Matt | University of Southampton | Day 1 (14.00 -15.15) |
| 42. Liu, Norrice | Queen Mary University of London | Day 1 (14.00 -15.15) (15.45 – 17.15) |
| 43. Marmot, Prof. Sir Michael | University College London | Day 1 (10.40 – 11.00) (11.50 -11.20) |
| 44. Martin, Dr Pablo | UK Centre for Ecology and Hydrology | Day 2 (11.30 – 13.00) |
| 45. Marczylo, Dr Emma | UK Health Security Agency/BioAirNet | Day 1 (15.45 – 17.15) |
| 46. McGrory, Dr Megan | University of Reading | Day 2 (11.30 – 13.00) |
| 47. Meldrum, Dr Kirsty | University of Swansea | Day 1 (14.00 -15.15) |

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| 48. Mereno Rangel, Dr Alejandro | University of Strathclyde | Day 1 (14.00 -15.15) |
| 49. Moller, Dr Sarah | National Centre for Atmospheric Science, University of York | Day 2 (15.15 – 16.15) |
| 50. Namdeo, Professor Anil | Northumbria University, UKRI Regional Clean Air Champion for NE and East Midlands | Day 1 (14.00 -15.15) |
| 51. Nasar, Dr Zaheer | Cranfield University | Day 1 (15.45 – 17.15) |
| 52. Neal, Lucy | Met Office | Day 1 (15.45 – 17.15) |
| 53. Nelson, Noel | Met Office, UKRI Co-Champion | Day 2 (11.30 – 13.00) |
| 54. Nemitz, Dr Eiko | UK Centre for Ecology and Hydrology | Day 2 (11.30 – 13.00) |
| 55. Newington, John | Department for Environment. Food and Rural Affairs (DEFRA). | Day 2 (15.15 – 16.15) |
| 56. Noakes, Professor Catherine | University of Leeds, Breathing City (FUVN) | Day 1 (14.00 -15.15) |
| 57. O'Brien, Marta | University of Reading | Day 1 (15.45 – 17.15) |
| 58. O'Malley, Kevin | Innovate UK | Day 1 (15.45 – 17.15) |
| 59. Parish, Dr Bill | Department for Environment. Food and Rural Affairs (DEFRA) | Day 2 (11.30 – 13.00) |
| 60. Peckham, Dr Mark | Cambustion Ltd | Day 2 (11.30 – 13.00) |
| 61. Petrou, Dr Giorgos | University College London | Day 1 (14.00 -15.15) |
| 62. Petts, Professor Dame Judith | University of Plymouth | Day 1 (11.15 – 11.35) (11.50 – 11.20) |
| 63. Price, Dr Heather | University of Stirling, UKRI Regional Clean Air Champion for Scotland. | Day 1 (15.45 – 17.15) Day 2 (10.30 – 11.00) |
| 64. Reed, Dr Sophie | University of Swansea | Day 1 (15.45 – 17.15) |
| 65. Rowland, Dr Neil | Queen's University, Belfast. | Day 2 (10.30 – 11.00) |
| 66. Schulte, Dr Kayla | Imperial College London | Day 1 (15.45 – 17.15) Day 2 (11.30 – 13.00) |
| 67. Shao, Dr Yunqi | University of Manchester | Day 1 (15.45 – 17.15) |
| 68. Shaw, Dr David | University of York | Day 1 (15.45 – 17.15) |
| 69. Singh, Dr Ajit | University of Birmingham | Day 2 (11.30 – 13.00) |
| 70. Sleet, Sarah | CEO Asthma + Lung UK | Day 1 (17.15 – 17.45) |
| 71. Smith, Dr Eleanor | Met Office | Day 2 (11.30 – 13.00) |
| 72. Sommariva, Dr Roberto | University of Birmingham | Day 1 (15.45 – 17.15) |
| 73. Srivastava, Dr Deepchandra | University of Birmingham | Day 2 (11.30 – 13.00) |
| 74. Stocker, Dr Jenny | CERC | Day 2 (11.30 – 13.00) |
| 75. Taylor, Andrew | Scottish Government | Day 2 (10.30 – 11.00) |

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| 76. Taylor, Chris | Philips | Day 1 (15.45 – 17.15) |
| 77. Thomas, Dr Matt | DIMEX | Day 2 (11.30 – 13.00) |
| 78. Topping, Professor Dave | The University of Manchester | Day 2 (14.00 – 14.30) |
| 79. Tong, Chengxu | University of Birmingham | Day 2 (11.30 – 13.00) |
| 80. Ullah, Professor Sami | University of Birmingham | Day 1 (14.00 -15.15) |
| 81. Varaden, Dr Diana | Imperial College London | Day 1 (15.45 – 17.15) |
| 82. Williams, Carys | University of York | Day 1 (14.00 -15.15) |
| 83. White, Dr Malcom | Global Action Plan | Day 1 (15.45 – 17.15) Day 2 (11.30 – 13.00) |
| 84. Whitehouse Dr Abigail | Queen Mary University of London (QMUL) | Day 1 (11.50 – 11.20) |
| 85. Xiang, Junjun | University of Birmingham | Day 1 (14.00 -15.15) |
| 86. Yeoman, Dr Amber | University of York | Day 1 (15.45 – 17.15) |
| 87. Young, Connor | University of Leicester | Day 2 (11.30 – 13.00) |
| 88. Zhong, Dr Jian | University of Birmingham | Day 1 (14.00 -15.15) |