



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:

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 two 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

Natural Environment Research Council

Philips

Tackling Air Pollution At School (TAPAS)

The Health Foundation

Transition

Wellhome

WM-Air

WM Net-Zero

Programme Overview

KEYNOTE PRESENTATIONS

All Keynote Presentations will take place in the Fry Suite.

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: Kieran Laxen</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>

KEYNOTE SPEECHES/LECTURES

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

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 DBE</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: Adam Donnan</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

Wednesday 2 nd October 1.50 – 12.20	Tackling Health Inequalities Through Actions to Improved Air Quality <i>Chair: Dr Suzanne Bartington</i> <i>Panellists: Dr Agnes Agyepong, Dr Abigail Whitehouse, Prof Sir Michael Marmot, Prof Dame Judith Petts</i>	Fry Suite
Wednesday 2 nd October 15.45 – 17.15	Clean Air: The Need for Multi-Sector Actions <i>Chair: Chris Taylor</i> <i>Co-Chair: Dr Naomi Bennett-Steele</i> <i>Panellists: Kevin O'Malley, Dr Malcolm White, Dr Amber Yeoman, James Hall</i>	Elgar
Thursday 3 rd October 10.30 – 11.10	Empowering Regions: The Impact and Evolution of Devolved Administrations <i>Chair: Dr Heather Price</i> <i>Co-Chair: Professor Paul Lewis</i> <i>Panellists: Roger Herbert, Neil Rowland, Andrew Taylor</i>	Fry Suite
Thursday 3 rd October 15.15 – 16.15	Improving Air Quality: Next Steps <i>Chair: Dr Sarah Moller</i> <i>Co-Chair: Dr Claire Holman</i> <i>Panellists: John Newington, Prof Alastair Lewis, Lara Edwards, Dr Nat Easton</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 Air Pollution <i>Chair: Dr Henry Burridge</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 Das</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

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

<i>Chair: Professor Sir Stephen Holgate</i>		Fry Suite
10.30 - 10.40	Welcome	Conference Opening: 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	Plenary Address from NERC [On-line]	Address by NERC Executive Chair: Professor Louise Heathwaite CBE, Executive Chair, Natural Environment Research Council (NERC) and Distinguished Professor, Lancaster Environment Centre, Lancaster University

<i>Chair: Noel Nelson</i>		Fry Suite
11.15 – 11.35	Keynote 2	Challenges and Opportunities for Science to Influence Policy: Professor Dame Judith Petts DBE, Emeritus Professor, University of Plymouth

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 Panel Participants: Dr Agnes Agyepong, Dr Abigail Whitehouse, Professor Sir Michael Marmot, Professor Dame Judith Petts

<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 sessions for today and provide instructions for attendance at these sessions.

13.00 – 14.00	Lunch, Poster Presentations and Exhibits	Restaurant/ Fry Lounge
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14.00 - 15.15

Parallel Sessions			
1.1	<i>Chair: Matt Loxham</i> <i>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: 4 - 7
	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	
1.2	<i>Chair: Catherine Noakes</i> <i>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: 8 - 11
	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	
1.3	<i>Chair: William Bloss</i> <i>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: 12 - 15
	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.	
1.4	<i>Chair: Anil Namdeo</i> <i>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: 16 - 19
	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	

15.45 – 17.15
Parallel Sessions

1.5	<i>Chair: Larissa Lockwood</i> <i>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: 21 - 25
	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	

1.6	<i>Chair: Henry Burridge</i> <i>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: 26 - 29
	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	

1.7	<i>Chair: Heather Price</i> <i>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: 30 - 34
	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 – Clean Air Gas Engine	

1.8 Panel	<i>Chair: Chris Taylor</i> <i>Co-Chair: Naomi Bennett-Steele</i>	Clean Air: The Need for Multi-Sector Actions	Elgar
	Kevin O'Malley	Realising the potential of the UK's clean air tech sector	Abstracts Page: 35 - 39
	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	
	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	
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<i>Chair: Adam Donnan</i>		Fry Suite
17.15 – 17.45	Keynote 3	Fighting for Clean Air: Sarah Sleet, CEO Asthma + Lung UK

17.45 – 19.30
Free Time

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

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

<i>Chair: Kieran Laxen</i>		Fry Suite
09.30 – 10.00	Keynote 4	Air Quality and Mental Health – Evidence, Challenges and Future Directions: Professor Kamaldeep Bhui, Professor of Psychiatry, Senior Research Fellow, Wadham College, University of Oxford

<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

<i>Chair: Heather Price</i> <i>Co-Chair: Paul Lewis</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
11.10 – 11.15	Introduction to the Parallel Sessions	Dr Gary Fuller will introduce the Parallel sessions for today and provide instructions for attendance at these sessions.

11.15 – 11.30	Coffee/ Tea Break	Fry Lounge
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**11.30 – 13.00
Parallel Sessions**

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: 41 - 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	

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: 47 - 50
	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?	

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: 51 - 52
	Yuqing Dai	AQPET — An R package for air quality policy evaluation	
	Michael Hollaway	A UK Emissions Modelling System (UK – EMS)	
	Bill Parish	Air Quality Information System Review (AQIS)	

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: 53 - 54
	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	

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: 55- 60
	Rajat 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	
	Pete Edwards	Assessing and enabling the use of low-cost air pollution sensors in UK urban environments – The QUANT study	

13.00 - 14.00	Lunch, Poster Presentations and Exhibits	Restaurant/ Fry Lounge
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<i>Chair: Lara Edwards</i>		Fry Suite
14.00 – 14.30	Keynote 5	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

<i>Chair: Gary Fuller</i>	Fry Suite
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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: Claire 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 and Poster prize presentations	Professor Sir Stephen Holgate	Fry Suite
16.30		Conference closes	

Hosts and Speakers (List)

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. Donnan, Adam	Institute of Environmental Sciences	Day 1 (17.15 – 17.45)
19. 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)
20. Edwards, Lara	Health Data Research UK (HDRUK)	Day 2 (14.00 – 14.30) (15.15 – 16.15)
21. Faherty, Dr Thomas	University of Birmingham.	Day 1 (14.00 -15.15)
22. 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)
23. Gardiner, Tom	National Physical Laboratory (NPL)	Day 2 (11.30 – 13.00)

24. Gibbons, Emma	University College London.	Day 1 (14.00 -15.15)
25. Gupta, Professor Rajat	Oxford Brookes University	Day 2 (11.30 – 13.00)
26. Handy, Dr Alice	Imperial College, London	Day 1 (14.00 -15.15) Day 2 (11.30 – 13.00)
27. Hall, Dr James	University of Birmingham.	Day 2 (11.30 – 13.00)
28. Heathwaite, Professor Louise	NERC, Lancaster University	Day 1 (11.00 – 11.15)
29. Hedges, Mike	Imperial College, London	Day 1 (14.00 -15.15)
30. Helps, Lilli	University of Leicester.	Day 1 (14.00 -15.15) Day 2 (11.30 – 13.00)
31. Herbert, Roger	Welsh Government	Day 2 (10.30 – 11.00)
32. Hodgson, Dr James	University of Birmingham	Day 1 (14.00 -15.15) Day 2 (16.15 – 16.30)
33. Holgate, Professor Sir Stephen	University of Southampton	Day 1 (10.30 – 10.40)
34. Holman, Dr Claire	Institute of Air Quality Management (IAQM), Air Pollution Services	Day 2 (15.15 – 16.15)
35. Holloway, Michael	Centre of Ecology and Hydrology (CEH)	Day 2 (11.30 – 13.00)
36. Hu, Dawei	University of Manchester	Day 1 (14.00 – 15.15)
37. Kane, Danny	Nooku, Air Quality Monitoring Solutions	Day 1 (14.00 -15.15)
38. Laxen, Kieran	Institute of Air Quality Management (IAQM), Air Pollution Services	Day 2 (09.30 – 10.00)
39. Lam, Dr Charlie	University of Plymouth	Day 2 (11.30 – 13.00)
40. Lewis, Professor Paul	Swansea University, UKRI Regional Champion for Wales	Day 2 (10.30 – 11.00) (11.30 – 13.00)
41. Lewis, Professor Alastair	University of York, Air Quality Expert Group (AQEG)	Day 2 (14.30 – 15.00) Day 2 (15.15 – 16.15)
42. Lockwood, Larissa	Global Action Plan (GAP)	Day 1 (15.45 – 17.15) Day 2 (11.30 – 13.00)
43. Longden, Mark	RL Automotive	Day 2 (11.30 – 13.00)
44. Loxham, Professor Matt	University of Southampton	Day 1 (14.00 -15.15)
45. Liu, Norrice	Queen Mary University of London	Day 1 (14.00 -15.15) (15.45 – 17.15)
46. Marmot, Prof. Sir Michael	University College London	Day 1 (10.40 – 11.00) (11.50 -11.20)
47. Martin, Dr Pablo	UK Centre for Ecology and Hydrology	Day 2 (11.30 – 13.00)
48. Marczylo, Dr Emma	UK Health Security Agency/BioAirNet	Day 1 (15.45 – 17.15)

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

		(11.30 – 13.00)
78. Taylor, Andrew	Scottish Government	Day 2 (10.30 – 11.00)
79. Taylor, Chris	Phillips	Day 1 (15.45 – 17.15)
80. Thomas, Dr Matt	DIMEX	Day 2 (11.30 – 13.00)
81. Topping, Professor Dave	The University of Manchester	Day 2 (14.00 – 14.30)
82. Tong, Chengxu	University of Birmingham	Day 2 (11.30 – 13.00)
83. Ullah, Professor Sami	University of Birmingham	Day 1 (14.00 -15.15)
84. Varaden, Dr Diana	Imperial College London	Day 1 (15.45 – 17.15)
85. Williams, Carys	University of York	Day 1 (14.00 -15.15)
86. White, Dr Malcom	Global Action Plan	Day 1 (15.45 – 17.15) Day 2 (11.30 – 13.00)
87. Whitehouse Dr Abigail	Queen Mary University of London (QMUL)	Day 1 (11.50 – 11.20)
88. Xiang, Junjun	University of Birmingham	Day 1 (14.00 -15.15)
89. Yeoman, Dr Amber	University of York	Day 1 (15.45 – 17.15)
90. Young, Connor	University of Leicester	Day 2 (11.30 – 13.00)
91. Zhong, Dr Jian	University of Birmingham	Day 1 (14.00 -15.15)