

# The meaning of net zero

Professor Joanna D. Haigh 25<sup>th</sup> November 2021 | London



### **About the IES**





We are the Institution of Environmental Sciences, a membership organisation representing environmental professionals from across the broad spectrum of environmental disciplines.

The IES is a membership organisation representing and supporting professionals from fields as diverse as air quality, land condition and education, wherever you find environmental work underpinned by science.

We lead the debate, dissemination and promotion of environmental science and sustainability, and champion an evidence-based approach to decision and policy making to stand up for science, scientists and the natural world.

We believe the application of scientific principles deepens our understanding of the natural environment and sustainable development. Committed to excellence, we exist to serve our members and the public, constantly seeking innovation and distinction in the services we provide.

In upholding the standards and importance of the profession, we maintain a position not only to advocate for environmental science but to act as a catalyst for improvement. We seek to identify an inspirational vision for the profession as a whole and the strategic direction to implement this.



**Professionalism** 



**Sound Science** 



Quality assurance Responsibility



**Equality Equity** 



Integrity

## **Schedule**





Burntwood 2019

- 18:00 Registration and drinks reception
- **18:30** Welcome from the IES Chair Julie Hill
- 18:45 Burntwood Lecture: The meaning of net zero Joanna D. Haigh
- 19:15 Respondents to the lecture
- **19:30** Q&A session
- 20:00 Drinks and canapés reception
- 21:30 Event close



# **The Burntwood Lecture 2021**



### The meaning of net zero

Thursday 25<sup>th</sup> November

#### Professor Joanna D. Haigh

Joanna was Co-Director of the Grantham Institute at Imperial College from 2014 until her retirement in 2019. Prior to this, she was Head of the Department of Physics. Jo's scientific interests include radiative transfer in the atmosphere, climate modelling, radiative forcing of climate change and the influence of solar irradiance variability on climate.

She has published widely on these topics in the scientific literature and also contributed

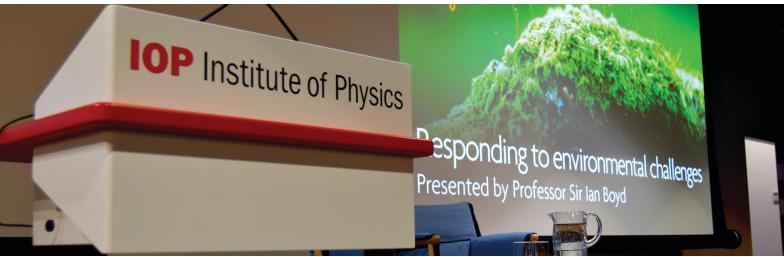


numerous items to the written and broadcast popular media. She has been President of the Royal Meteorological Society, Editor of the Quarterly Journal of the Royal Meteorological Society and of the Journal of Atmospheric Sciences, a Lead Author on the Intergovernmental Panel on Climate Change and acted on many UK and international panels.

She is a Fellow of the Royal Society, the Institute of Physics, the City & Guilds and the Royal Meteorological Society, and an Honorary Fellow of Somerville College Oxford. She was awarded the Institute of Physics' Charles Chree Medal and Prize 2004, the Royal Meteorological Society's Adrian Gill Prize 2010 and appointed CBE in the 2013 New Year Honours.

### **History of the Burntwood Lecture**





Burntwood 2019

The Burntwood Lecture is the IES' flagship event. The event honours Lord Burntwood who was the IES' first Chair and served in the Labour Government of 1964-70.

The evening provides an opportunity for eminent speakers to talk on a current, critical and often controversial environmental theme. The invited audience are persons of true significance in the environmental field from the professions, universities and government.

#### Recent speakers

**2020** - Is there coherent scientific advice in support of environmental action?

Professor Jim Skea, Imperial College, Past Chair of the IPCC Working Group III

**2019** - Responding to environmental challenges Professor Sir Ian Boyd, University of St Andrews, Past Chief Scientific Adviser, Defra

**2018** - Can we put a price on biodiversity? Prof. Kathy Willis, CBE, Principal of St Edmund Hall, University of Oxford

**2017** - The Magic Money Tree: How our financial systems could support, not undermine, a sustainable future

Dr Bevis Watts, Managing Director, Triodos Bank

**2016** - Separation Anxiety: The challenges for the environment from Brexit

Baroness Parminter, Liberal Democrat Deputy Leader in the House of Lords & Spokesperson for the Environment

**2015** - Badgers bees & biodiversity - Can we really have evidence-based environmental policy?

Prof. Charles Godfray, Hope Professor Zoology, University of Oxford

**2014** - Environmental problems Prof. Steve Rayner, James Martin Professor of Science and Civilisation, University of Oxford

**2013** - Climate Models: The greatest feat of modern science Prof. Julia Slingo OBE, Chief Scientist, Met Office

**2012** - Revisiting Rachel: The legacy of silent spring fifty years on Prof. Paul Ekins, Professor of Energy and Environment, UCL Energy Institute & Dr Michael Depledge, Expert Advisor, WHO

**Earlier speakers**: Jonathon Porritt, Tony Juniper, Prof. Bob WatsonProf. Martin Williams, Sir Colin Spedding CBE, John Gummer MP (Lord Deben), Sara Parkin OBE, Sir Crispin Tickell, Lord Crickhowell, Professor David Bellamy

# **Delegate List**

A		
Lisa	Abbott	Institution of Environmental Sciences
Eleni	Antoniades Snell	Eleni Antoniades Environmental Ltd
Neil	Archer	ASN
Rachel	Archer	Alcatel Submarine Networks (ASN)
В		
Jehan	Baban	The Iraqi Environment and Health Society-UK
Jack	Bailey	University of Leeds
James	Barwick	Wyke Farms Ltd
Caroline	Beattie	Caroline Beattie Editorial
Wayne	Bint	Optimum Power Services LTD
Marcela	Bongiorno	ARUP
Ruth	Bowyer	King's College London
Marianne	Brett	CGL
Lorna	Brooks	Southern Water
Samantha	Broughton	CampbellReith
Gwen	Buck	Green Alliance
Lefranc	Busane	Twangiza Mining, DRC
С		
Leticia	Campello	RWDI
Huanjie	Chen	London Borough of Hounslow Council
Ethny	Childs	Institution of Environmental Sciences
Gareth	Chugg	Hydrock
Sarah	Clinton	Mercia Power Response Ltd
D		
Sarah	Davies	AECOM
Maer	Davis	Arcus
Adam	Donnan	Institution of Environmental Sciences
Е		
Mike	Ellis	Advisian
Jeanne	Everett	Tetiaroa Society - Blue Climate Initiative
F		
Emilia	Fahy	Arup
Emma	Fell	GovNet
Bernard	Fisher	Institute for Air Quality Management
Phyllis	Fisher	Woodlands School
Jessica	Flack	None - graduate from University of Reading
Chloe	Fletcher	BBC
Jonathan	Foot	AHDB
G		
Ashley	Gillan	Palladium
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BURNTWOOD LECTURE

2021



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Benedetta Gocciadoro The Open University

James Gooding Geo-Environmental Services Limited

Liz Gray Atkins

Emma Guénand Nottingham Trent University

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Hasitha Herath Ted Jacob Engineering Group

Julie Hill Institution of Environmental Sciences

Selina Hodgson University of Hull

Paul Howlett Strabag

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Michal Indrak The Open University

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Williams Joshua Glasgow Caledonian University

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Katherine Karr Institution of Environmental Sciences

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Joseph Lewis Institution of Environmental Sciences

Philip Lewis LMB Geosolutions Ltd

Roisin Lindsay WSP

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Emma Marsland Arup

Isabelle Martin Institution of Environmental Sciences

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John Patrick McQuillan Royal Anthropological Institute of Great Britain

and Ireland

Catherine McQuillan RSK

Sepeedeh Mehregan Institution of Environmental Sciences

Cheryl Miles Exemplas Ltd
Aine Monaghan PM Group

Karla Mortensen Bournemouth university

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Edward	Nancarrow	LV
Giovanni	Nanni	Seed Environmental
Noel	Nelson	Met Office
Matthew	Newbould	University of East Anglia
Brenton	Nichol	Arup
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Aine	O Shea	CDM Smith
John	O'Connor	Ryan Hanley Consultants
Evans	Onyedikachi Nwachukwu	University Of Derby
Hamza	Oueslati	RWDI
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Philippe	Pernstich	Carbon Trust
Sam	Pollard	Jacobs
Maria	Pooley	Mott MacDonald
Liz	Price	Manchester Metropolitan University
Fiona	Prismall	RPS Consulting Services Limited
Jon	Pullen	Consultant
Kanan	Purkayasths	Local Government Organisation
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Caroline	Railston-Brown	Great Western Hospitals NHS Foundation Trust
Robyn	Rand	WSP
Evangeline	Rowe	Bournemouth University
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Waseem	Shahid	BACS Consortium
Ashish	Sharma	Global Centre of Clean Air Research (GCARE) The
		University of Surrey
Xiangyu	Sheng	Temple
lta	Sherlock	Open University
Frances	Smith	Frankly Green
Olajumoke	Sobayo	University of Derby
Alexandra	Spence	Bureau Veritas
Dave	Stone	Natural England
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Russell	Thomas	WSP
Zhe	Tian	Atkins
David	Tompkins	Aqua Enviro / SUEZ Smart & Environmental Solutions (UK)
W		
Nick	Walton	CPRE
Dan	Ward	Born Free Foundation
	******	DOM FICE FOUNDATION

African Union Commission

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Stuart	Whatley	TRC

Chak Sum Jason Wong Ricardo Energy & Environment

Roland Woodbridge Retired

Tom Woolley Rachel Bevan Architects

David Wright Jacobs

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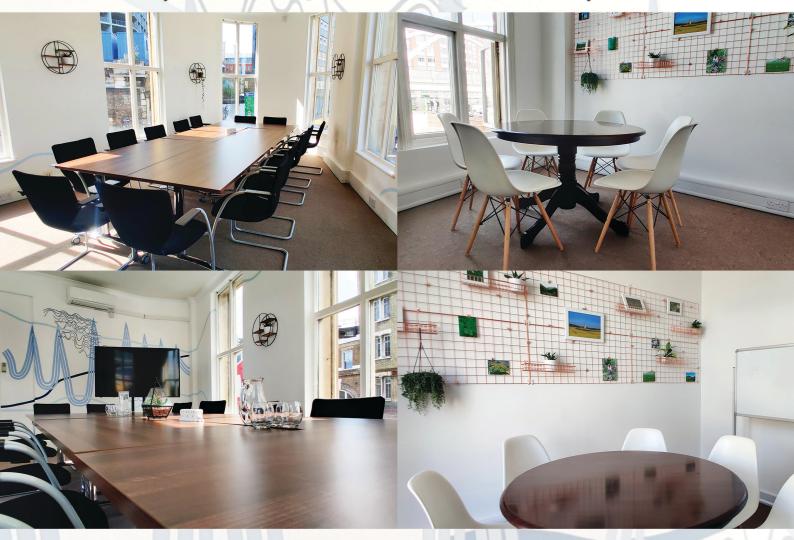
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Fjord

# Fjell



# Affordable London meeting rooms

Looking for somewhere to host your central London meetings?

The IES has two meeting rooms, the Fjord and the Fjell available for hourly or daily hire.

Significant discounts for IES Members, Charities and Institutions.

The Fjord can host up to 16 people in boardroom style or up to 30 in reception style.

The Fjell can host 6 people in boardroom style.

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