

THE  
BURNTWOOD  
LECTURE  
2019



# Responding to environmental challenges

Professor Sir Ian Boyd

19<sup>th</sup> November 2019 | 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**



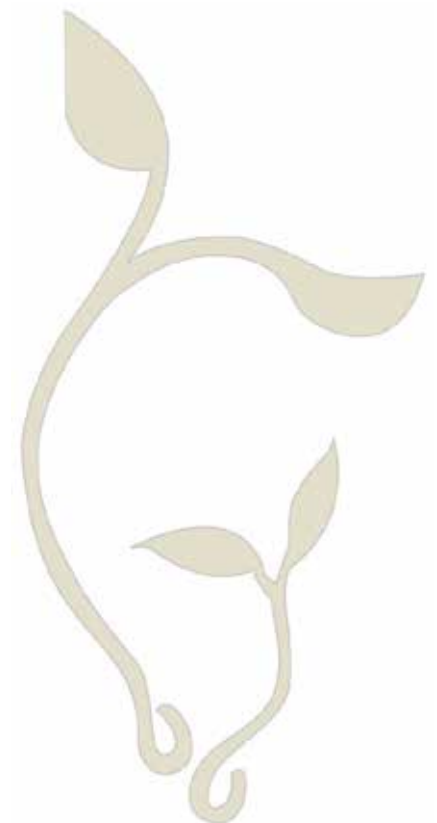
**Integrity**

# Schedule



*Prof. Dieter Helm & Prof. Kathy Willis, Burntwood 2018*

- 18:15** Registration and drinks reception
- 19:00** Welcome from the IES Chair  
Gary Kass
- 19:05** Welcome from the evening's Chair  
Jill Rutter
- 19:10** Burntwood Lecture: Responding to environmental governance  
Professor Sir Ian Boyd
- 19:50** Q&A session
- 20:20** Drinks and canapés reception
- 21:30** Event close



# The Burntwood Lecture 2019

## Responding to environmental challenges

Tuesday 19<sup>th</sup> November

### Professor Sir Ian Boyd

Professor Sir Ian Boyd is a biologist based at the University of St Andrews who has spent much of his career researching marine and polar science. He described the functional relationship between the rate of marine resource consumption and the impact on ecosystems. His research also extended to the effects of specific human activities like oil and gas development and anti-submarine warfare on the marine environment.



Sir Ian spent seven years as the Chief Scientific Adviser on food and environment in the UK, based in Defra. In this role, he produced a number of influential reports on waste and resources and the future of the seas. He was also responsible for leading the re-design of the science advice process within Defra and played a pivotal role in the response to the nerve agent attack in Salisbury in 2018.

He has been highly recognised for his achievements throughout his career and awarded the Bruce Medal for polar science in 1995, the Scientific Medal of the Zoological Society of London in 1998, the Polar Medal by the Queen in 2017 and most recently received a Knighthood as part of the Queen's Birthday Honours in June 2019. His current interests lie in developing models of sustainability to support new policies.

# History of the Burntwood Lecture



*Prof. Kathy Willis, Burntwood 2018*

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.

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## Recent speakers

**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

**2010** - The Growth Fetish & the Death of Environmentalism

Jonathon Porritt, Founder, Director and Trustee, Forum for the Future

**2009** - Using Environmental Sciences for a Sustainable Future

Prof. Bob Watson, Chief Scientific Advisor, Defra

**2008** - Prospects for a Sustainable Society: What is the correct role for science?

Tony Juniper, Former Executive Director, Friends of the Earth

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

# Exhibitors



The Science Council is a membership organisation for professional bodies and learned societies across the disciplines of science; setting the standards for practising scientists and science technicians through professional registration.

At the core of The Science Council's ethos is the belief that every scientist has a responsibility to society, and themselves, to work with integrity, keep their skills and knowledge up to date, and consider how their efforts affect the world around them.

The Science Council works with organisations who commit to promoting and embedding professional standards among their staff, providing an environment in which registrants can meet this responsibility. The IES works with The Science Council to award Chartered Scientist (CSci) to suitably qualified environmental scientists.



The Society for the Environment was granted a Royal Charter in 2004 to licence the award of Chartered Environmentalist (CEnv). Since then, some 8000 individuals have successfully registered as CEnv, including SocEnv's President, Tony Juniper. In 2014, the Society renewed its commitment to environmental professionals by recognising the importance of technicians to the environment and the economy, launching the new designation Registered Environmental Technician (REnvTech).

Ask the IES for details of how to apply to become a Chartered Environmentalist or Registered Environmental Technician.

# Delegate List



## A

Lisa	Abbott	Institution of Environmental Sciences
Eleni	Antoniades	EA Environmental
Rachel	Archer	ASN
Neil	Archer	ASN
Robert	Ashcroft	Defra
Caitlin	Astbury	MS Society
Jonathan	Atkinson	Environment Agency
Nicola	Avery	University of Surrey

## B

Kerrie	Baggs	SouthDowns
Olivia	Bailey	Student
Madhav	Bakshi	BEIS
Darren	Banks	Redrow Homes
Heather	Barrett-Mold	
Stephen	Bates	Bathams
Andrew	Bates	
Darcy	Beardmore-Crowther	EPS Ltd
Caroline	Beattie	Caroline Beattie Editorial
Helena	Bennett	Student
Clive	Bentley	Sharps Redmore Partnership
Pam	Berry	University of Oxford
Megan	Bickle	University of Leeds
Robert	Blakemore	Home Office
Demelza	Blick	
Khadija	Boussen	University of Sussex
Ruth	Bowyer	King's College London
Alison	Boyd	UK Environmental Law Association
Victoria	Boyes	Defra
Sebastian	Braeuer	Octopus Energy
Marianne	Brett	CET Infrastructure
Lorna	Brooks	Southern Water
Ben	Burfoot	Reading Borough council
Neil	Burke	CGN
Nigel	Burton	Temple Group
Ian	Byrne	IBECCS Ltd

## C

Chenlin	Cai	Imperial College London
Jim	Camp	House of Commons
Charlie	Cantwell	Science Council

Andrew	Carr	Defra
Angie	Chan	Arup
Megan	Chaplin	EDF Energy
Huanjie	Chen	Imperial College London
Colin	Church	IOM3
Chris	Cockburn	Hounslow Borough Council
Calum	Cockerill	Quod
Kevin	Collins	Open University
Nicholas	Corbett	Imperial College London
Brendan	Costelloe	British Ecological Society
Georgia	Couch	Selfridges
Ben	Crane	Student
Imogen	Cripps	Green Alliance
Leanne	Cronin	Student
Michael	Cuff	Tesco

## D

Lance	Dawkins	JBA Consulting
Nathan	Dellow	IDOM
Adam	Donnan	Institution of Environmental Sciences
Jane	Dowsett	SAMI
Rachel	Drayson	Students Organising for Sustainability UK
Zoe	Drummond	University of Sussex
Leila	du Toit	Canary Wharf Contractors

## E

Olayinka	Ekundayo	London Borough of Brent
Rachel	Ellis	Minerva Analytics
Aamirah	Essof	WSP
Mark	Everard	University of the West of England

## F

Edoardo	Federici	Institution of Environmental Sciences
Emma	Fell	Govnet
Bernard	Fisher	Surrey CC
Phyllis	Fisher	University of Hertfordshire
Chloe	Fletcher	BBC
Dean	Foden	Cefas
Csaba	Foldesi	Vanilla Black
Theodora	Forbes	Foresight Group
Callum	Foster	BuroHappold Engineering
Natalie	Foster	Open University
Paddy	Fowler	Institution of Environmental Sciences
Fiona	Fox	Science Media Centre



Billy Fuller Open University

G

Ruth	Galligan	Government
Andrew	Galligan	TfL
Samir	Gandhi	Defra
Slavina	Georgieva	Defra
Ashley	Gillan	WSP
Dino	Giordanelli	Mott MacDonald
Claire	Giribaldi	ERM
Monica	Gomez	Delta Simons

H

Andrew	Haigh	Canary Wharf Group
Kristina	Halls	Diss Publishing
Richard	Hardeman	Black & Veatch
Minna	Hartikainen	Royal Society of Biology
Paul	Hatchwell	Freelance Consultant
Jeremy	Head	Land, Water and Waste Consultant
Elizabeth	Heath	Environmental Communications
Julie	Hill	Institution of Environmental Sciences
Tim	Hill	Natural England
George	Hodson	Open University
John	Holman	
Thomas	Howell	RemedX Ltd (RSK Group)
Jennifer	Howell	The Ardonagh Group
Rhiannon	Humphreys	Institution of Environmental Sciences
Robert	Huppertz	ICL
Nina	Hurhangee	Nova-Ambiente

I

Stephen	Inch	Greater London Authority
Christine	Irvine	South West College

J

Kate	Jakab-Csizmadia	Offshore Design Engineering
Rhianna	Jarvis	Institution of Environmental Sciences
Paul	Johnson	PJEC Ltd
Hugh	Jones	The Carbon Trust
David	Josling	Delta Simons

K

Gary	Kass	Defra
Nikolaos	Kastelis	Jacobs
Alp	Katalan	The Carbon Trust
Christos	Katsaros	Genesis Oil & Gas Consultants

Thomas	Kavanagh	Food Standards Agency
Fiona	Keates	RSK Limited
David	Keeble	KBR
Andrew	Kekwick	
Thomas	King	Press Association
Sylvia	Klimaki	Journalist
Anita	Kostereva	Open University

L

Pippa	Langford	Natural England
Mo	Langmuir	Green House
Skye	Langmuir	University of Edinburgh
Andrea	Lee	ClientEarth
Alaric	Lester	Krastis
Roisin	Lindsay	WSP

M

Nick	MacInnes	Defra
Laura	Marshall	Royal Society of Biology
Stephen	Martin	University of the West of England
Anna-Marie	Maskova	Pembroke House
Chad	McDowell	TRC Solutions
Josh	McLaren	Atkins
Lee	Metters	Domino Printing Sciences
Ekaterine	Mikadze	Imperial College London
Cheryl	Miles	Exemplas
Matthew	Mitchell	REC
Nandi	Mkhize	ClientEarth
John	Moore	South West College
Emma	Mounsey	Avison Young
Samantha	Muir	AA Environmental Ltd
Elizabeth	Mullings-Smith	Maya Blue Ltd
Patricia	Mwaniki	WSP

N

Noel	Nelson	Met Office
Mark	Nichols	Phlorum
Katie	Nield	ClientEarth
Lea	Nightingale	JBA Consulting
Richard	Noble	Aspers Group

O

Julia	Oggioni	Sweco
Matt	Osund-Ireland	Wood
Alice	Oven	Taylor & Francis Publishing

Hatti	Owens	ClientEarth
<b>P</b>		
Oliver	Page	BEIS
Harry	Parker	Quod
Beth	Parker	SouthDowns
Sara	Parkin	The Sustainability Literacy Project
Harshvaden	Patel	Bracknell Forest Council
Mia	Patel	Student
Kate	Paxton	Hodkinson Consultancy
Derek	Pedley	Pedley Consultants
Luba	Penman	Penman Dest
Susana	Pereira	Delta Simons
Philippe	Pernstich	The Carbon Trust
Niall	Pettitt	Environment Agency
Nicolas	Pickard-Garcia	Imperial College London
Maria	Pooley	Mott MacDonald
William	Powell	Santander
Ellen	Purdue	APEM
Kanan	Purkayastha	Greenwich, Lewes and Eastbourne Council
<b>Q</b>		
Yuqi	Qiu	Imperial College London
<b>R</b>		
Muhammad	Rafi	Aw architecture
Sarah	Ridgeon	Society for the Environment
James	Robb	WSP
Becky	Robertson	University of Leeds
Victoria	Robinson	Defra
Jackie	Rogers	UWE, Bristol
Jennifer	Rose	Defra
<b>S</b>		
Anna	Saich	Wardell Armstrong
Kirsty	Schneeberger	UK Environmental Law Association
Amarachi	Seery	Janus Henderson
Keeley	Seymour	WSP
Charles	Sheldon	Foresight Group
Dominic	Sheldon	Ricardo Energy & Environment
Thomas	Sheppard	Sanofi
Ita	Sherlock	Simply Business Ltd
David	Smith	Campbell Reith Hill LLP
Frances	Smith	Frankly Green
Laurence	Smith	RemedX Ltd (RSK Group)

Adam	Sokolowski	TRC Solutions
Catherine	Souch	RGS-IBG
Jenny	Stafford	Temple Group
Melanie	Stephen	Imperial College London
Fred	Steward	University of Westminster
Dave	Stone	Natural England
Michael	Sulu	UCL
<b>T</b>		
Ian	Todd	
Delyth	Toghill	WSP
Francesca	Topp	Student
Andrew	Tranter	RSK Limited
Nicholas	Tymko	Honeywell International Inc
<b>U</b>		
Sydney	Ugochukwu	Imperial College London
<b>V</b>		
Jacqueline	Vale	Environment Agency
Anne	Velenturf	University of Leeds
<b>W</b>		
Joan	Walley	Fellow of the IES
Nick	Walton	University of Portsmouth
Christopher	Wardle	Foresight Group
Sarah	Waterhouse	ERM
William	Watts	Consultant
Stuart	Whatley	Delta Simons
Philip	Wheeler	Open University
Jim	Whelan	Prime Example Consulting
Daniel	Wicker	SouthDowns Environmental Consultants
Naomi	Wise	Winchester city council
Tak	Wong	Arup
Roland	Woodbridge	Atkins
Jacqueline	Wright	The Carbon Trust
Xinyue	Wu	Imperial College London
<b>Y</b>		
Yaqi	Yang	Imperial College London
Baroness Barbara	Young	The Baroness Young of Old Scone

# 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.

[the-ies.org/meeting-rooms](http://the-ies.org/meeting-rooms)

### Extras

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- Elevator in building - included
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- Kitchen - included
- Printing - included
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- Tea/coffee - included
- Whiteboards - included
- Wireless Internet Access - included

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