

Low Carbon Cymru

6 February 2018 | Principality Stadium, Cardiff

SPEAKERS

Professor Phil Jones

Chair of Architectural Science, Welsh School of Architecture, Cardiff University



Phil Jones is Professor of Architectural Science at the Welsh School of Architecture, Cardiff University and co-directs the Energy Systems University Research Institute (URI). His research area is in low energy, low carbon, and sustainable design in the built environment. He is currently leading the WEFO funded Low Carbon Built Environment Project, which includes energy positive buildings and low carbon retrofits. He chairs the Welsh Building Regulation Advisory Committee and is Chairman of the Board of Directors of Warm Wales, a community interest company formed to install energy efficiency measures to existing fuel poor housing in Wales.

Professor Philip J Bowen

Professor of the School of Engineering, Cardiff University



Philip Bowen graduated in Pure and Applied Mathematics from the University of Wales in 1986, receiving his PhD degree in modelling complex fluids in 1990. He worked for 5 years at Shell's Thornton Research Centre, analysing multi-phase effects in large-scale explosions, before joining Cardiff University's School of Engineering in 1994. He was appointed Professor of Energy Systems at Cardiff in 2004, and founded Cardiff University's offsite Gas Turbine Research Centre in collaboration with QinetiQ in 2007, which continues to undertake high-pressure/temperature combustion and fuels related research. He was Cardiff School of Engineering's first Director of Innovation and Engagement (2008-12) and Director of School (2012-15). He founded and co-Directs Cardiff's Energy Systems University Research Institute (ESURI) (2015) involving academic research from 10 Schools across all 3 academic colleges. He has attracted (as PI/CI) over £30M research income from over 100 projects during his career, graduated 30 PhD students and published over 200 research papers. He sits on various national and international strategic advisory committees (such as RCUK and IEA), has provided advice to various multinationals and governments, and is a Fellow of the IMechE, Institute of Physics – former chair of 'Combustion Physics' group - and Learned Society of Wales (FLSW).

Professor Jim Watson

Director of the UK Energy Research Centre and Professor of Energy Policy, University of Sussex



Jim Watson is Director of the UK Energy Research Centre and a Professor of Energy Policy at the University of Sussex. He has 20 years' research experience on climate change, energy and innovation policy. He frequently advises UK government departments and other organisations and was an advisor to the Government Office for Science for a Foresight project on energy (2007-08). He is a judge for the Queens Awards, a member of the Global Challenges Research Fund strategic advisory group and a member of the government's fossil fuel price projections panel. He has also been a Specialist Adviser with three Parliamentary committees. He has extensive international experience, including over ten years working on energy scenarios and energy innovation policies in China and India. In 2008, he was a Visiting Scholar at the Kennedy School of Government, Harvard University.

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Professor Geoffrey Hammond

Professor of Mechanical Engineering, Department of Mechanical Engineering, University of Bath



Geoffrey Hammond is Professor of Mechanical Engineering and was Founder Director of the Institute for Sustainable Energy & the Environment (I•SEE) at the University of Bath. He also held an Honorary Professorship in Sustainable Bioenergy at the University of Nottingham in 2010-2016. He is a mechanical engineer with a multidisciplinary background, including environmental engineering and management. His research interests are mainly concerned with the technology assessment of energy (including bioenergy and biofuel) systems and transition pathways to a low carbon future, using a toolkit of methods derived from the engineering and environmental sciences. He was co-originator of the 'Inventory of Carbon and Energy' [or database of embodied energy and 'greenhouse gas' (GHG)], now widely used by practitioners for the calculation of 'carbon footprints' for products and in construction. He is a Co-Director of the four-university EPSRC-funded, interdisciplinary Centre for Industrial Energy, Materials and Products (CIE-MAP). He is the joint recipient of the Dufton Silver Medal (CIBSE), the George Stephenson Prize (IMechE), and the James Watt Medal (ICE) for publications in his specialist field. He was appointed an Output Assessor on 'Energy and Sustainability' for the last UK Research Excellence Framework (REF 2014). He has advised a number of UK Government departments and agencies on issues concerned with energy and the environment and is presently Co-Chair of the British Standards Institution (BSi) GHG Management Group.

Prys Davies

Deputy Director for Energy, Water and Flood, Welsh Government



Prys Davies has been Deputy Director for Energy, Water and Flood in the Welsh Government since May 2012. He has lead responsibility for Energy policy, Water policy and Flood and Coastal Erosion Risk Management and forms part of the senior management team for the Department for Environment. Between 2007 and 2012, he held a variety of posts within the Welsh Government's Department for the Environment and Sustainable Development. These posts included work on climate change policy; managing the delivery of various pieces of legislation, including the Waste (Wales) Measure; developing the business case for establishing a Natural Resources Body for Wales; and leading the policy development for the forthcoming Sustainable Development Bill. He joined the Civil Service in 1998 on the graduate fast stream and between 1998-2007, undertook a variety of posts within the Welsh Government including periods in the Finance Department, working as Private Secretary to the First Minister, and leading on Welsh Language and Broadcasting policy.

Shea Buckland-Jones

Re-Energising Wales Project Coordinator, Institute of Welsh Affairs



Shea Buckland-Jones coordinates the Re-energising Wales project at the Institute of Welsh Affairs. Re-energising Wales is a 3 year project that will outline a plan to seek to enable Wales to meet its projected energy demands entirely from renewable sources by 2035 and beyond. Shea has had a number of previous roles, including a policy role at Community Housing Cymru at which she worked closely with the housing association sector in supporting the sector to deliver energy projects.

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Rita Singh

Director of Size of Wales



Rita Singh is Director of Size of Wales, a national climate change charity operating in Wales and internationally. Prior to this, she was involved in shaping and helping with implementation of Wales' Well-being of Future Generations Act, as Director of Policy at Cynnal Cymru and then at the Future Generations Commissioner's office.

An engineer by qualification, she brings nearly twenty years of experience working in public, private and third sectors on issues where sustainable development has been a key driver. She also sits on several boards in trustee roles including Fair Trade Wales, Wales Millennium Centre and a Common Cause Foundation.

Professor Stuart Irvine

Director of the Centre for Solar Energy Research (CSER), College of Engineering, Swansea University



Stuart Irvine is Director of the Centre for Solar Energy Research (CSER) in the College of Engineering, Swansea University and is based in the OptIC Technology Centre in St Asaph, North Wales; along with the CSER team. He is one of the pioneers for deposition of II-VI compound semiconductors by Metal-organic Chemical Vapour Deposition (MOCVD) for application to thin film solar cells and advanced thin film materials for the opto-electronics industry. This research has led to the publication of over 200 journal and conference publications and 10 patents. He received his B.Sc degree in Physics from Loughborough University, Ph.D in Physical Metallurgy and Science of Materials, and D.Sc in Physics, both from the University of Birmingham. He is director of the SPARC II WEFO project that brings together research in solar PV technology across Welsh university research teams. He is chair of the Institute of Materials Minerals and Mining (IOM3) Energy Materials Group (EMG) that has a broad view over the application of materials in energy generation and the challenges faced with both renewable energy generation and large power generation.

Professor Ian Masters

Professor in Mechanical Engineering, Department of Mechanical Engineering, Swansea University



Ian Masters is Professor in Mechanical Engineering at Swansea University. He founded the Marine Energy Research Group in 2001 and is author of many academic papers and patents. His research areas include: Tidal current turbines, tidal range technology, wave energy and multiple use of space. In particular, he specialises in the development of computational models to improve the performance of tidal turbines. He also has an interest in the link between design and cost of energy in order to develop cost effective ocean energy devices.

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Steven Edwards

Director of Regulation and Commercial, Wales and West Utilities



Steven Edwards is Director of Regulation and Commercial. He joined the gas industry in 1992 as a Finance Graduate and now has 23 years' experience in the sector. He has been closely involved in the Ofgem review of the RPI-X, resulting in the "RIIO" form of regulation and led the first "RIIO" business plan submission for Wales & West Utilities resulting in an agreed settlement with Ofgem for the next 8 years. As a member of the ENA Gas Futures Group, he has helped shape a number of contributions as the group continues to make future energy policy. He is also a Board Member of Energy Networks Association and in 2011 gave evidence on behalf of Energy Networks Association to the Energy Select Committee on the future role for gas in the UK. Energy is also a key issue for the devolved nations and he is a member of the Welsh Government Energy and Advisory Panel.

Professor Iain Donnison

Professor in Plant Science, Institute of Biological Environmental and Rural Sciences, IBERS, Aberystwyth University



Iain Donnison is a Professor in Plant Science at Aberystwyth University's Institute of Biological Environmental and Rural Sciences, IBERS. He leads the Agriculture & Environment Theme in IBERS, and the pan wales BEACON Biorefining project. Most recently he became the biomass resources lead in the new Supergen Bioenergy Hub application to EPSRC and BBSRC. His research and innovation interests include energy crop biology and breeding, the matching of feedstocks to different end uses, the environmental impacts of land use change, and development of the bioeconomy.

Professor Alan Guwy

Director of the Energy and Environment Research Institute (EERI), University of South Wales and Head of the Sustainable Environment Research Centre (SERC)



Alan Guwy is the Director of the Energy and Environment Research Institute (EERI) at the University of South Wales and the Head of the Sustainable Environment Research Centre (SERC). He has carried out research in the areas of sustainable energy and environment science and engineering for more than 25 years. He is the Operating Agent for the International Energy Agency's Biohydrogen Task 34. He is currently a Scientific Advisor for the H2FCSUPERGEN Hub and a board member of the International Water Association's specialist Anaerobic Digestion group. He has received funding either as principal investigator (PI) or co-investigator (Co-I) from the EPSRC BBSRC, NERC and a variety of EU programmes. These include funding from 5 EPSRC SUPERGEN projects, EU framework projects FP 5, 6, 7 and current H2020 and a number of large ERDF projects including H2Wales, LCRI and FLEXIS. He has published over 100 papers, with 6474 citations and an h-index of 37. His publications include some of the highest cited papers in the field of water science (3rd & 6th highest cited papers in the journal of Water Research and the highest cited paper in the journal of Water Science and Technology in last 20 years).

Professor Peter Pearson

Emeritus Professor, Cardiff University & Hon. Professor of Sustainable Innovation & Energy, Imperial College London



Peter Pearson is Emeritus Professor, Cardiff University and Hon. Professor of Sustainable Innovation & Energy, Imperial College London. He was previously Director of the Low Carbon Research Institute of Wales; before that he directed the Imperial College Centre for Energy Policy & Technology. His research focuses on past and prospective long run energy and infrastructure transitions and their energy and environmental policy implications.
