

William Menelaus Memorial Lecturers

1927	Sir William H Bragg KBE FRS DSc	1981	Sir Joseph Pope DSc (Hon) LLtd FBIM CEng FIMechE
1928	H.C.H. Carpenter FRS MA PhD Hon DSc(Wales)	1983	Sir Peter Gadsden CBE MA DSc FEng
1929	W.H. Hatfield DSc FRS	1985	Lord Caldecott
1930	H.G.A. Hickling DSc FRS	1987	Prof. J. Notting
1931	F.S. Sinnatt CB DSc	1989	Colin Kirkland
1932	J.W. Cobb CBE BSc FIC	1991	G. Adler OBE
1933	C.A. Edwards DSc FRS	1993	Dr. Hugh Scott-Russell CEng FSAIMM
1934	C.H. Desch DSc FRS	1995	Sir Keith Stuart MA FRSA CBIM FCIT
1935	W.T. David MA ScD DSc MInstCE	1997	Sir Robert May FRS
1936	B.P. Haigh MBE DSc MInstCE	1999	Dr. Elizabeth Haywood CIMgt FRSA
1937	C.H. Lander CBE DSc MInstCE	2001	Dr. David Grant CBE FEng
1938	W.M. Thornton OBE DSc DEng	2003	Sir Peter Williams CBE FEng FRS
1940	Sir Arthur P.M. Bleiming CBE DEng MSc(Tech) MIMechE MIEE	2004	Sir Alec (now Lord) Broers FEng FRS
1945	Sir Lewis L. Fermor OBE DSc FRS	2005	Sir David Davies FEng FRS
1946	C.G. Morley MIEE	2006	Sir Gareth Roberts FEng FRS
1947	Douglas Hay MC BSc MInstCE	2007	Sir John Chisholm FEng FRS
1948	P.B. Moon MA PhD FRS	2008	Sir Richard Friend FEng FRS
1949	W F Cartwright DL MIMinE	2009	Lord Browne of Madingley FEng FRS
1952	W. Idris Jones CBE BSc PhD MIMinE MChemE FRIC	2010	Prof Dame Ann Dowling FEng FRS
1954	Sir William Halcrow MInstCE	2011	Prof. Dame Julia Higgins DBE FRS FEng
1957	Sir Charles F. Goodeve OBE DSc FRS	2012	Prof. The Lord Rees of Ludlow OM FRS FEng
1960	T.E. Allibone PhD DSc FRS MIEE	2013	Sir John Cadogan CBE DSc FRSE FRSC PLSW FRS
1963	Sir Willis Jackson DSc MIEE FRS	2014	Sir John Armitt CBE FEng FICE
1965	Sir Humphrey Browne CBE MA MIMinE	2015	Prof Hywel Thomas FEng MAE FLSW FRS
1967	Sir William Penney KBE FRS MA PhD DSc	2016	Sir Emyr Jones Parry GCMG FInstP PLSW
1970	Sir Paul Chambers KBE DB CIE	2017	Prof Dame Jocelyn Bell Burnell CBE FRS FRAS PRSE PPIoP PPRAS
1971	Lord Pilkington	2018	Sir John O'Reilly DSc FEng FLSW FIET
1973	Dr. K. Mallanby CBE DSc FIBiol	2019	Lord Robert Mair
1976	Sir Kingsley Dunham FRS	2020	Baroness Julia King DBE FEng FRS
1977	Sir Derek Ezra		
1979	Dr. Walter Marshall CBE FRS		

The South Wales Institute of Engineers Educational Trust

Chairman:
Mr Philip E. Hourahine



**The 60th William Menelaus
Memorial Lecture**
In Association with
**The Learned Society for Wales and
supported by Cardiff University**

Delivering Net Zero
Presented by:
The Baroness Brown of Cambridge
DBE FEng FRS
Julia King

6.00pm, Monday 16th March 2020
In the Wallace Lecture Theatre,
Main Building, Cathays Park, Cardiff

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SOUTH WALES INSTITUTE
OF ENGINEERS
EDUCATIONAL TRUST

The 60th William Menelaus Memorial Lecture



The Baroness Brown of Cambridge
DBE FEng FRS Julia King

Baroness Brown is an engineer, with a career spanning senior engineering and leadership roles in industry and academia. Her interests include climate change adaptation and mitigation and the low carbon economy.

In this area she currently serves as: Vice Chair of the Committee on Climate Change and Chair of the Adaptation Committee; non-executive director of the Offshore Renewable Energy Catapult; Chair of the Carbon Trust. She was non-executive director of the Green Investment Bank, she led the King Review on decarbonising transport (2008).

She is currently supporting the UK offshore wind sector as Sector Champion for the development of the Sector Deal as part of the Government's Industrial Strategy. She is a Fellow of the Royal Academy of Engineering, the Royal Society, and was awarded DBE for services to higher education and technology. She is a crossbench Peer and a member of the House of Lords European Union Select Committee

The South Wales Institute of Engineers Educational Trust (SWIEET2007)

The Institute was founded in 1857 and granted a Royal Charter of Incorporation in 1881. It devotes itself **'to the encouragement and advancement of Engineering Science and Practice' and was 'established to facilitate the exchange of information and ideas amongst its members, and to place on record the results of experience'**. In carrying out these functions, the Institute played its part in advancing technical knowledge and, through its individual members, has made important research contributions in many fields, through to 2007.



In 2007, the Institute agreed to wind up its Learned Society functions, and to transfer all its funds into an Educational Trust, devoted to the promotion of engineering with young people.

The Institute now makes Bursary, merit and other awards, to both individual engineering students and educational establishments, supports activities which encourage and develop young engineers, and focuses upon 'youth into engineering', in schools, colleges and other establishments, at profession "entry" levels.

The Learned Society of Wales (LSW)

The Learned Society of Wales is Wales's first national scholarly academy. It was established and launched in May 2010. It now has more than three and fifty Fellows, who are prominent figures within their respective academic disciplines. The Society's guiding ethos is *Celebrating Scholarship and Serving the Nation*: as well as to celebrate, recognise, safeguard and encourage excellence in every one of the scholarly disciplines, its purpose is also:

- to promote the advancement of learning and scholarship and the dissemination and application of the results of academic enquiry and research; and
- to act as a source of independent and expert scholarly advice and comment on matters affecting the wellbeing of Wales and its people and to advance public discussion and interaction on matters of national and international importance.

The Society's *Strategic Aim* is to be a sustainable organisation that is fit for purpose and that is acknowledged both as the recognised representative of the world of Welsh learning internationally and as a source of authoritative, scholarly and critical comment and advice to the National Assembly and other bodies on policy issues affecting Wales.

The Learned Society of Wales is keen to develop established links with organisations like SWIEET2007 that have complementary aims and is particularly pleased to be associated with this evening's Menelaus Lecture by its current President.