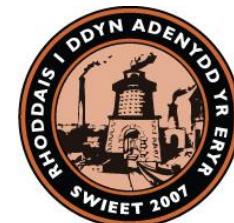


William Menelaus Memorial Lecturers

| | | | |
|------|--|------|---|
| 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 FREng |
| 1938 | W.M. Thornton OBE DSc DEng | 2003 | Sir Peter Williams CBE FREng FRS |
| 1940 | Sir Arthur P.M. Bleming CBE DEng MSc(Tech) MIMechE MIEE | 2004 | Sir Alec (now Lord) Broers FREng FRS |
| 1945 | Sir Lewis L. Fermor OBE DSc FRS | 2005 | Sir David Davies FREng FRS |
| 1946 | C.G. Morley MIEE | 2006 | Sir Gareth Roberts FREng FRS |
| 1947 | Douglas Hay MC BSc MInstCE | 2007 | Sir John Chisholm FREng FRS |
| 1948 | P.B. Moon MA PhD FRS | 2008 | Sir Richard Friend FREng FRS |
| 1949 | W F Cartwright DL MIMinE | 2009 | Lord Browne of Madingley FREng FRS |
| 1952 | W. Idris Jones CBE BSc PhD MIMinE MIChE FRIC | 2010 | Prof Dame Ann Dowling FREng FRS |
| 1954 | Sir William Halcrow MInstCE | 2011 | Prof. Dame Julia Higgins DBE FRS FREng |
| 1957 | Sir Charles F. Goodeve OBE DSc FRS | 2012 | Prof. The Lord Rees of Ludlow OM FRS FREng |
| 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 FREng FICE |
| 1965 | Sir Humphrey Browne CBE MA MIMinE | 2015 | Prof Hywel Thomas FREng MAE FLSW FRS |
| 1967 | Sir William Penney KBE FRS MA PhD DSc | 2016 | Sir Emry Jones Parry GCMG FInstP PLSW |
| 1970 | Sir Paul Chambers KBE DB CIE | 2017 | Prof Dame Jocelyn Bell Burnell CBE FRS FRAS PRSE PPlod PPRAS |
| 1971 | Lord Pilkington | 2018 | Sir John O'Reilly DSc FREng FLSW FIET |
| 1973 | Dr. K. Mallanby CBE DSc FIBiol | 2019 | Lord Robert Mair |
| 1976 | Sir Kingsley Dunham FRS | 2020 | Baroness Julia King DBE FREng 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 FREng 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 FREng 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.