## William Menelaus Memorial Lecturers

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|---|---|
| **1927** | **Sir William H Bragg KBE FRS DSc** |
| 1928 | H.C.H. Carpenter FRS MA PhD Hon DSc(Wales) |
| **1929** | **W.H. Hatfield DSc FRS** |
| 1930 | H.G.A. Hickling DSc FRS |
| **1931** | **F.S. Sinnatt CB DSc** |
| 1932 | J.W. Cobb CBE BSc FIC |
| **1933** | **C.A. Edwards DSc FRS** |
| 1934 | C.H. Desch DSc FRS |
| **1935** | **W.T. David MA ScD DSc MInstCE** |
| 1936 | B.P. Haigh MBE DSc MInstCE |
| **1937** | **C.H. Lander CBE DSc MInstCE** |
| 1938 | W.M. Thornton OBE DSc DEng |
| **1940** | **Sir Arthur P.M. Bleming CBE DEng MSc(Tech) MIMechE MIEE** |
| 1945 | Sir Lewis L. Fermor OBE DSc FRS |
| **1946** | **C.G. Morley MIEE** |
| 1947 | Douglas Hay MC BSc MInstCE |
| **1948** | **P.B. Moon MA PhD FRS** |
| 1949 | W F Cartwright DL MIMinE |
| **1952** | **W. Idris Jones CBE BSc PhD MIMinE MIChemE FRIC** |
| 1954 | Sir William Halcrow MInstCE |
| **1957** | **Sir Charles F. Goodeve OBE DSc FRS** |
| 1960 | T.E. Allibone PhD DSc FRS MIEE |
| **1963** | **Sir Willis Jackson DSc MIEE FRS** |
| 1965 | Sir Humphrey Browne CBE MA MIMinE |
| **1967** | **Sir William Penney KBE FRS MA PhD DSc** |
| 1970 | Sir Paul Chambers KBE DB CIE |
| **1971** | **Lord Pilkington** |
| 1973 | Dr. K. Mallanby CBE DSc FIBiol |
| **1976** | **Sir Kingsley Dunham FRS** |
| 1977 | Sir Derek Ezra |
| **1979** | **Dr. Walter Marshall CBE FRS** |
| 1981 | Sir Joseph Pope DSc (Hon) LLtd FBIM CEng FIMechE |
| **1983** | **Sir Peter Gadsden CBE MA DSc FEng** |
| 1985 | Lord Caldecott |
| **1987** | **Prof. J. Notting** |
| 1989 | Colin Kirkland |
| **1991** | **G. Adler OBE** |
| 1993 | Dr. Hugh Scott-Russell CEng FSAIMM |
| **1995** | **Sir Keith Stuart MA FRSA CBIM FCIT** |
| 1997 | Sir Robert May FRS |
| **1999** | **Dr. Elizabeth Haywood CIMgt FRSA** |
| 2001 | Dr. David Grant CBE FREng |
| **2003** | **Sir Peter Williams CBE FREng FRS** |
| 2004 | Sir Alec (now Lord) Broers FREng FRS |
| **2005** | **Sir David Davies FREng FRS** |
| 2006 | Sir Gareth Roberts FREng FRS |
| **2007** | **Sir John Chisholm FREng FRS** |
| 2008 | Sir Richard Friend FREng FRS |
| **2009** | **Lord Browne of Madingley FREng FRS** |
| 2010 | Prof Dame Ann Dowling FREng FRS |
| **2011** | **Prof. Dame Julia Higgins DBE FRS FREng** |
| 2012 | Prof. The Lord Rees of Ludlow OM FRS FREng |
| **2013** | **Sir John Cadogan CBE DSc FRSE FRSC PLSW FRS** |
| 2014 | Sir John Armitt CBE FREng FICE |
| **2015** | **Prof Hywel Thomas FREng MAE FLSW FRS** |
| 2016 | Sir Emyr Jones Parry GCMG FInstP PLSW |
| **2017** | **Professor Dame Jocelyn Bell Burnell CBE FRS FRAS PRSE PPIoP PPRAS** |
| 2018 | Sir John O'Reilly DSc FREng FLSW FIET |
| **2019** | **Lord Robert Mair** |
| 2020-2022 | Memorial Lecture postponed due to COVID19 |
| **2023** | **Baroness Brown of Cambridge DBE FREng FRS Julia Elizabeth King** |

# The South Wales Institute of Engineers Educational Trust

Chairman: **Mr Philip E. Hourahine**

Chief Executive**: Stephen K. Jones**

# 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 Elizabeth King**

6.00pm, Wednesday 15th March 2023

The Law Department Lecture Theatre, Law Building

Cardiff University, Park Place, Cardiff CF10 3AX

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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 Elizabeth 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 and 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.

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PEIRIANYDD YFORY
ENGINEER TOMORROW
SWIEET
2007

SWIE became the South Wales Institute of Engineers Educational Trust in 2007. It aims to encourage and advance engineering and technology through projects and programmes of individuals and organisations. It has been active in supporting projects that benefit young people, from primary school to university to encourage engineering careers and to develop and bring to life engineering history and heritage.
https://swieet2007.org/

### 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.