

William Menelaus Memorial Lecturers

1927	Sir William H Bragg KBE FRS DSc	1995	Sir Keith Stuart MA FRSA CBIM FCIT
1928	H.C.H. Carpenter FRS MA PhD Hon DSc(Wales)	1997	Sir Robert May FRS
1929	W.H. Hatfield DSc FRS	1999	Dr. Elizabeth Haywood CIMgt FRSA
1930	H.G.A. Hickling DSc FRS	2001	Dr. David Grant CBE FREng
1931	F.S. Sinnatt CB DSc	2003	Sir Peter Williams CBE FREng FRS
1932	J.W. Cobb CBE BSc FIC	2004	Sir Alec (now Lord) Broers FREng FRS
1933	C.A. Edwards DSc FRS	2005	Sir David Davies FREng FRS
1934	C.H. Desch DSc FRS	2006	Sir Gareth Roberts FREng FRS
1935	W.T. David MA ScD DSc MInstCE	2007	Sir John Chisholm FREng FRS
1936	B.P. Haigh MBE DSc MInstCE	2008	Sir Richard Friend FREng FRS
1937	C.H. Lander CBE DSc MInstCE	2009	Lord Browne of Madingley FREng FRS
1938	W.M. Thornton OBE DSc DEng	2010	Prof Dame Ann Dowling FREng FRS
1940	Sir Arthur P.M. Bleming CBE DEng MSc(Tech) MIMechE MIEE	2011	Prof. Dame Julia Higgins DBE FRS FREng
1945	Sir Lewis L. Fermor OBE DSc FRS	2012	Prof. The Lord Rees of Ludlow OM FRS FREng
1946	C.G. Morley MIEE	2013	Sir John Cadogan CBE DSc FRSE FRSC PLSW FRS
1947	Douglas Hay MC BSc MInstCE	2014	Sir John Armitt CBE FREng FICE
1948	P.B. Moon MA PhD FRS	2015	Prof Hywel Thomas FREng MAE FLSW FRS
1949	W.F. Cartwright DL MIMechE		
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		

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The South Wales Institute of Engineers Educational Trust

Chairman:

Mr P. E. Hourahine



The 55th William Menelaus Memorial Lecture

In Association with

The Learned Society of Wales

Energy and the Ground: Some Geoenvironmental Considerations

Presented by:

Professor Hywel Thomas
FREng MAE FLSW FRS

Professor of Civil Engineering, Director of the Geoenvironmental
Research Centre (GRC) and UNESCO Professor in the
Development of a Sustainable Geoenvironment, Cardiff University

6.00pm, Monday 9th March 2015

Birt Acres Lecture Theatre, Bute Building,
Cathays Park, Cardiff

Supported by Cardiff University

The 55th William Menelaus Memorial Lecture



Professor Thomas is a Professor of Civil Engineering, the Director of the Geoenvironmental Research Centre (GRC) and a UNESCO Professor in the Development of a Sustainable Geoenvironment at Cardiff University. His research interests cover a wide range of geoenvironmental issues, from coupled multiphysics /geochemistry flow problems in soils and rocks, through to sustainability issues in general.

A major focus of his work is the geological disposal of high level nuclear waste. Current interests include the geoenergy field, with major projects on ground source heat, underground coal gasification, exploitation of unconventional gas and carbon sequestration in coal seams.

During the course of his academic career, he has produced more than 400 technical papers and reports and has lectured extensively both at home and abroad.

He currently works extensively with the UN agencies, UNIDO, UNESCO and the IAEA. His academic achievements have been recognised by election as a Fellow of the Royal Society (FRS), a Fellow of the Royal Academy of Engineering (FREng), a Member of Academia Europaea, the Academy of Europe (MAE) and a Fellow of the Learned Society of Wales (FLSW).

The South Wales Institute of Engineers Educational Trust (SWIET2007)

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. The Trust has agreed to continue with the Menelaus Lecture and Dinner as part of its activities.

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

The Society is Wales’s first national scholarly academy, established and launched in May 2010 on the initiative on the part of a group of independent scholars who are based in or connected with Wales, and who represent the major academic disciplines. Until then, Wales lacked its own national academy of learning. This not only meant that the country’s intellectual capability was not properly represented or promoted on the international stage; it was also the case that its people, politicians and policy-makers, and businesses did not have access to well-researched, scholarly and objective advice on issues of key importance in the way that those in other countries have had. Wales now has a learned society that, over time, can take its place among the great academies of London and Edinburgh, as well as those that flourish across Europe, in North America and beyond.

The Society’s purpose is:

- to celebrate, recognise, preserve, protect and encourage excellence in all of the scholarly disciplines, and in the professions, industry and commerce, the arts and public service;
- 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 Learned Society of Wales is keen to develop established links with organisations like SWIET2007 that have complementary aims and is particularly pleased to be associated with this evening’s Menelaus Lecture by Professor Hywel Thomas.