



The Royal Academy
of Engineering

The heat beneath your feet: geothermal energy in the UK

1.30pm, Wednesday 8 April 2009

The Royal Academy of Engineering
3 Carlton House Terrace,
London
SW1Y 5DG



The heat beneath your feet: geothermal energy in the UK

Many countries around the world now generate geothermal power. In the UK, there is one operating geothermal power plant yet it is estimated that there are 1,550 large industrial sites in the UK where heat-pump systems could be installed, producing an average of 800 KW of thermal power each. Geothermal energy produces very low carbon emissions and can provide a consistently high supply of heat and electricity.

Geothermal heat mining technologies were initially developed in the 1970s. As the need for cleaner heat and energy sources becomes more urgent, the viability of geothermal power is being re-examined. This seminar will encourage debate and a re-assessment of the viability of geothermal power in the UK. Speakers will provide perspectives on a range of geothermal methods, including international case studies, within the current energy policy context.

Programme

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| 1.30pm Registration and refreshments | 3.25pm Break and refreshments |
| 2.00pm Introduction
Professor Nick Jenkins FREng,
The Royal Academy of
Engineering | 3.50pm Thermogeological
Accumulator: Ground Source
Heating and Cooling in the UK
David Banks, Holymoore
Consultancy Ltd |
| 2.10pm Government policy on
renewable heat
Dr Michael Feliks, Department of
Energy and Climate Change | 4.15pm Deep geothermal in the UK
Professor David Manning,
University of Newcastle |
| 2.35pm The development of HDR/EGS
research in Europe
Dr John Garnish, Former
Programme Manager,
EU Geothermal Research | 4.40pm Discussion |
| 3.00pm Geothermal deployment
in Europe
Dr Ernst Huenges (GFZ German
Research Centre for Geosciences,
Potsdam) | 5.30pm Drinks reception |

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Wednesday 8 April 2009

Registration Form

I wish to reserve place(s) for the meeting on Wednesday 8 April 2009

Title	First name
Surname	Honours
Position	
Organisation	
Address	
	Postcode
Telephone	Email

Guest 1

Title	First name
Surname	Honours
Position	
Organisation	Email

Guest 2

Title	First name
Surname	Honours
Position	
Organisation	Email

Please return to: Alice Curnow

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VAT Registration Number: 503 4089 74 Registered Charity Number: 293074

Please detach and return booking form only

The Royal Academy of Engineering

As Britain's national academy for engineering, we bring together the country's most eminent engineers from all disciplines to promote excellence in the science, art and practice of engineering. Our strategic priorities are to enhance the UK's engineering capabilities, to celebrate excellence and inspire the next generation, and to lead debate by guiding informed thinking and influencing public policy.

The Academy's work programmes are driven by three strategic priorities, each of which provides a key contribution to a strong and vibrant engineering sector and to the health and wealth of society.

Enhancing national capabilities

As a priority, we encourage, support and facilitate links between academia and industry. Through targeted national and international programmes, we enhance – and reflect abroad – the UK's performance in the application of science, technology transfer, and the promotion and exploitation of innovation. We support high quality engineering research, encourage an interdisciplinary ethos, facilitate international exchange and provide a means of determining and disseminating best practice. In particular, our activities focus on complex and multidisciplinary areas of rapid development.

Recognising excellence and inspiring the next generation

Excellence breeds excellence. We celebrate engineering excellence and use it to inspire, support and challenge tomorrow's engineering leaders. We focus our initiatives to develop excellence and, through creative and collaborative activity, we demonstrate to the young, and those who influence them, the relevance of engineering to society.

Leading debate

Using the leadership and expertise of our Fellowship, we guide informed thinking, influence public policy making, provide a forum for the mutual exchange of ideas, and pursue effective engagement with society on matters within our competence. The Academy advocates progressive, forward-looking solutions based on impartial advice and quality foundations, and works to enhance appreciation of the positive role of engineering and its contribution to the economic strength of the nation.



The Royal Academy of Engineering promotes excellence in the science, art and practice of engineering.

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