



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

# The heat beneath your feet: geothermal energy in the UK

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.

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

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