

THE GROUND SOURCE HEAT PUMP ASSOCIATION

Geothermal Live! **Conference and Exhibition** Part of GeoDrilling 2008 **Wednesday 30th April – Thursday 1st May 2008**

at The East of England Showground, Peterborough

CONFERENCE AGENDA

DAY ONE – Wednesday 30th April 2008

- 09.15 – 09.25** **Official Welcome**
Keynote Presentation – speaker to be confirmed
- SESSION 1 THEME: ‘HOW GROUND SOURCE HEAT PUMPS FIT INTO THE GOVERNMENT’S PLAN’**
Chair: Karl Drage (Geothermal International Ltd), Chairman, Ground Source Heat Pump Association
- 09.25 - 09.30** **Chair’s opening remarks**
- 09.30 - 09.50** **Carbon emission reduction targets** – speaker Dr Penny Dunbabin, Department for Environment, Food and Rural Affairs (DEFRA)
- 09.50 - 10.10** **Ground source heat pumps - a regulator's perspective** – speaker Dr John Aldrick, Head Office Water Resources, Regulation Manager, Environment Agency
- 10.10 - 10.30** **The road to 2016 – using Merton to achieve zero carbon** – speaker Jonah Anthony, Policy Director, Micropower Council
- 10.30 - 10.50** **Questions**
- 10.50 - 11.05** **Coffee Break**
- SESSION 2 THEME: ‘PROCURING AND SPECIFYING A GROUND SOURCE HEAT PUMP SYSTEM’**
Chair: Brian Stringer, National Secretary, British Drilling Association and Council Member, Ground Source Heat Pump Association
- 11.05 - 11.10** **Chair’s opening remarks**
- 11.10 - 11.30** **Planning and contracting processes, a route map for developers** – speaker Duncan Nicholson, Director Ove Arup & Partners Ltd
- 11.30 - 11.50** **A building services consulting engineer's perspective of the industry** – speaker Keith Horsley, Hoare Lea Consulting Engineers
- 11.50 - 12.10** **Working with drillers: The procurement, specification and commissioning of drilling services** – speaker Andy Howley, Loopmaster Europe Ltd
- 12.10 - 12.30** **Questions**
- 12.30 – 12.45** **Coffee Break**

/Session 3 ...

SESSION 3 THEME: ‘APPLICATIONS FOR HEAT PUMPS’

Chair: Tony Bowen, President, Heat Pump Association (HPA) and Council Member, Ground Source Heat Pump Association

- 12.45 – 12.50 Chair’s opening remarks**
- 12.50 – 13.10 Heat pump case studies (new and old) – speaker Phil Moore, Eco Heat Pumps Ltd**
- 13.10 – 13.30 Commercial open loop installations: best practice – speaker Iain Howley, Loopmaster Europe Ltd**
- 13.30 – 13.50 Open loop ground source energy systems – speaker David Whitaker, Ove Arup & Partners Ltd**
- 13.50 – 14.10 Questions**
- 14.10 – 14.25 Coffee break**

SESSION 4 THEME: ‘HEATING SYSTEM DESIGN AND HEAT PUMPS’

Chair: Duncan Nicholson (Ove Arup & Partners Ltd), Council Member, Ground Source Heat Pump Association

- 14.25 – 14.30 Chair’s opening remarks**
- 14.30 – 14.50 Radiators and low temperature heating distribution systems – speaker Bill Bucknell, Chairman of the Institute of Domestic Heating & Environmental Engineers (IDHEE)**
- 14.50 – 15.10 Control strategies to link pumps with emitters: To buffer or not to buffer? – speaker Chris Ingram, Managing Director of Continental Underfloor Heating Systems, and Vice Chairman of the Underfloor Heating Manufacturers Association**
- 15.10 – 15.30 How to design and implement GSHP systems that actually do something about delivering renewable energy and carbon reductions – speaker Robin Curtis, Technical Manager, EarthEnergy Ltd**
- 15.30 – 15.50 Questions**
- 15.50 – 16.05 Coffee break**

SESSION 5 THEME: ‘LESSONS LEARNT FROM THE GSHP PROCESS’

Chair: Neil Schofield (Worcester, Bosch Group), Council Member, Ground Source Heat Pump Association

- 16.05 - 16.10 Chair’s opening remarks**
- 16.10 - 16.30 Low Carbon Buildings Programme Phase II and its implications for the second phase of the Energy Efficiency Ccommitment / Carbon Emissions Reduction Target (CERT) – speaker Mike Newell, Low Carbon Product Manager, E.On**
- 16.30 – 16.50 EST field trials for domestic installations of heat pumps – speaker Jaryn Bradford, Renewables Development Manager, Energy Saving Trust (EST)**
- 16.50 – 17.10 Case studies of a large domestic application (1,400 homes) and large commercial application – speaker Guus Van Gelder, Co-founder, Groen Holland**
- 17.10 – 17.30 Questions**
- 17.30 Conference and Exhibition closes for the day**
- 17.45 Ground Source Heat Pump Association’s AGM (open to members only)**

/Day Two ...

DAY TWO – Thursday 1st May 2008

SESSION 1 THEME: ‘THERMAL RESPONSE TESTING’

Chair: Phil Moore (Eco Heat Pumps Ltd), Council Member, Ground Source Heat Pump Association

- 09.05 – 09.10** **Chair’s opening remarks**
- 09.10 – 09.30** **Case study: Installation of a 200m closed loop hole for client BAA at Stanstead and subsequent thermal response testing** – speakers Dr Gary Holmes & Ian Willis, Engineering Manager, WJ Groundwater Ltd and Technical Director, WSP Environmental
- 09.30 – 09.50** **TRT measurement facilities: Advanced compact device for the *in situ* determination of geothermal characteristics of soil** – speaker Professor Lyesse Laloui, Swiss Federal Institute of Technology, Lausanne
- 09.50 10.10** **Formation thermal conductivity testing** – speaker Allan Skouby, President of Geothermal Resource Technologies, Inc. (GRTI)
- 10.10 – 10.30** **Thermal conductivity cell** – speaker Peter Keeton, Laboratory Manager, Soil Mechanics
- 10.30 - 10.35** **Questions**
- 10.35 – 10.45** **Coffee break**

SESSION 2 THEME: ‘OUT OF THE GROUND’

Chair: Alan Draper (Advantage Projects Ltd), Council Member, Ground Source Heat Pump Association

- 10.45 – 10.50** **Chair’s opening remarks**
- 10.50 – 11.10** **CO₂ tubes - an alternative application of terrestrial subsurface collectors** – speaker Karl Ochsner, Ochsner Heat Pump Company
- 11.10 – 11.30** **Large lake loop installation** – speaker Chris Davidson, Technical Director, Geothermal International Ltd
- 11.30 – 11.50** **Innovative ways of improving the performance of ground energy systems such as solar storage or snow storage** – speaker Ryan Law, Ove Arup & Partners Ltd
- 11.50 – 12.10** **Questions**
- 12.10 – 12.25** **Coffee break**

SESSION 3 THEME: ‘THE FUTURE OF GROUND SOURCE HEAT PUMP INSTALLATIONS’

Chair: Brian Kennelly (EarthEnergy Ltd), Council Member, Ground Source Heat Pump Association

- 12.25 – 12.30** **Chair’s opening remarks**
- 12.30 – 12.50** **Skills and research** – speaker Dr Brian Agnew, School of Mechanical and Systems Engineering, Newcastle University
- 12.50 – 13.10** **Eco labelling in heat pumps** – speaker Rayner Mayer, European Heat Pump Association (EHPA)
- 13.10 – 13.30** **Successes and aspirations of the Ground Source Heat Pump Association** – speaker David Matthews, Chief Executive, Ground Source Heat Pump Association
- 13.30 – 13.50** **Questions**
- 13.50 – 14.05** **Coffee break**

/Session 4 ...

SESSION 4 THEME: ‘HEAT EXCHANGE PILES’

Chair: Karl Drage (Geothermal International Ltd), Chairman, Ground Source Heat Pump Association

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| 14.05 – 14.10 | Chair’s opening remarks |
| 14.10 – 14.30 | Energy Piles in the UK – speaker Tony Amis, Contracts Manager, Geothermal Operations, Cementation Foundations Skanska Ltd |
| 14.30 – 14.50 | Energy Piles: The European Experience – speaker Alfons Ebnöther, General Manager, Geothermal Department, Haka Gerodur |
| 14.50 – 15.10 | Experimental and numerical investigations of the behaviour of a heat exchange pile – speaker Professor Lyesse Laloui, Swiss Federal Institute of Technology, Lausanne |
| 15.10 – 15.30 | Questions |
| 15.30 | Conference and Exhibition closes |

Note: The Organisers reserve the right to make changes to the above agenda should this be really necessary.