

## Recent developments in Energy Geotechnics: Fundamentals to Applications

A half day seminar at Imperial College

1:00 – 4:30 pm 15<sup>th</sup> March 2017, followed by Rankine lecture at 5:30pm

Chair:

Prof. Lidija Zdravković, Imperial College

<b>Session 1: Fundamentals</b>		<b>1:00 – 2:30</b>
<i>Numerical modelling of coupled thermo-hydro-mechanical problems: challenges and pitfalls</i>	Prof. David Potts <i>Imperial College London, UK</i>	1:00 – 1:20
<i>The effects of temperature on soil behaviour</i>	Prof. Pierre Delage <i>Ecole des Ponts, ParisTech, France</i>	1:20 – 1:40
<i>Centrifuge modelling of floating geothermal piles</i>	Prof. Charles Ng <i>Hong Kong University of Science and Technology, Hong Kong</i>	1:40 – 2:00
<i>Discussion</i>	All	2:00 – 2:30
<b>Coffee break</b>		<b>2:30 – 3:00</b>
<b>Session 2: Applications</b>		<b>3:00 – 4:30</b>
<i>Application of ground-source heat pump systems to geostructures</i>	Duncan Nicholson <i>Arup, UK</i>	3:00 – 3:20
<i>Numerical modelling of thermo-active structures</i>	Dr. David M. G. Taborda <i>Imperial College London, UK</i>	3:20 – 3:40
<i>Thermo-hydro-mechanical interactions in nuclear waste repositories: lessons from large-scale tests</i>	Prof. Antonio Gens <i>Technical University of Catalonia, Spain</i>	3:40 – 4:00
<i>Discussion</i>	All	4:00 – 4:30

**Venue:**

Imperial College London, Department of Civil & Environmental Engineering  
Skempton Building, London SW7 2BU

**Main room:**

LT 164 – ground floor, Skempton Building

**Overflow room:**

LT 201 – first floor, Skempton Building