



The
Geological
Society

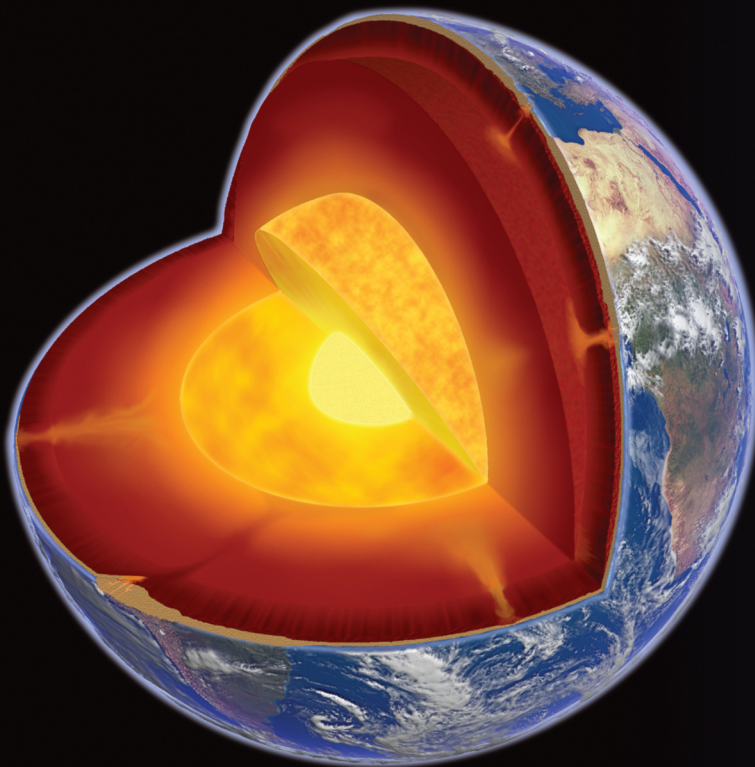
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Deep Earth Processes

windows on the workings of a planet

15-16 September 2014



**The Geological Society, Burlington House,
Piccadilly, London, UK**

The physical and chemical nature of Earth's deep interior is key in controlling many of the processes that shape our planet: from mantle convection to melting, from volcanism to plate tectonics. Rationalising the latest observations – be they clues revealed in the compositions of mantle melts, diamond formation, seismological nuances, or atomistic scale predictions – requires interaction across sub-disciplines. This international meeting seeks to draw together the latest ideas and results from geophysicists, geochemists, mineral physicists, geodynamicists and petrologists to identify the processes shaping the inaccessible depths of our planet.

Thematic sessions:

- Deep mantle structure
- Composition of the lower mantle
- Core formation, CMB & D"
- Surface expression of deep Earth processes

Convenors:

Sally Gibson, *University of Cambridge, UK*
Saskia Goes, *Imperial College, UK*
Simon Redfern, *University of Cambridge, UK*
Mike Walter, *University of Bristol, UK*

Keynote Speakers:

John Hearn, *Tokyo Institute of Technology, Japan*
Bernie Wood, *University of Oxford, UK*

Invited Speakers:

Chris Ballentine, *University of Oxford, UK*
John Brodholt, *University College London, UK*
Arwen Deuss, *University of Cambridge, UK*
Dan Frost, *Bayreuth, Germany*
Matt Jackson, *UC Santa Barbara, USA*
Peter van Keken, *University of Michigan, USA*
Mike Kendall, *University of Bristol, UK*
Graham Pearson, *University of Alberta, CA*
Dan Shim, *Arizona State University, USA*

Further information

For further information about the conference please contact:

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W: www.geolsoc.org.uk/deepearth14



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