

Bicentenary Conference

9 September, Ice breaker session, QEII Centre, 17.30 - 19.30

Day 1, 10 September

08.00 - 18.00 Registration

08.00 - 09.00 Tea and Coffee, Benjamin Britten Lounge

09.00 - 09.10 Introduction and Welcome, Richard Fortey, Fleming room

09.10 - 10.10 Plenary Session Speaker Andrew Knoll (Harvard U.), Fleming room

10.10 - 10.15 Presentation of Leopold von Buch Medal by The Deutsche Geologische Gesellschaft

10.15 - 11.00 Tea and Coffee, in theme catering areas

	Session 1	Session 2	Session 3	Session 4
	Resources	Environment	Earth & Planetary Interiors	Earth System
Introduction 11.00 - 11.10	Gordon Taylor (RPS Energy)	Jim Griffiths (Plymouth University)	Mike Kendall (University of Bristol)	Mike Benton (University of Bristol)
Session Chair	Al Fraser (BP)	Jim Griffiths (Plymouth University)	Mike Kendall (University of Bristol)	Mike Benton (University of Bristol)
11.10 - 11.40	Colin Campbell (Consultant) Peak Oil : A Geological Reality	Eddie Bromhead (Kingston University) Landslides and slope instability in layered geological structures	Alex Halliday (Oxford University) The origin of the Earth	Lynn Margulis (University of Massachusetts-Amherst) Evolution of life in the Phanerozoic Eon - Origin of our cells
11.40 - 12.10	Mike Daly (BP) Peak Oil: A Metaphor for Anxiety	(Double)	Monica Grady (Open University) The Earth, its Moon and Mars	Jim Secord (University of Cambridge) The origins of Global Geology in the Age of Empires

12.10 - 12.40	Malcolm Brown (BG) Are we facing Peak Gas?	Richard Teeuw (University of Portsmouth) Uses of aircraft and satellites to assess London's geohazards	Dan McKenzie (University of Cambridge) A seismological view of the continental lithosphere	Andy Watson (University of East Anglia) How we came to be here: the major transitions in the evolution of the Earth System
12.40 - 14.00	Lunch			
Session Chair	Gordon Taylor (RPS Energy)	John Arthur (Top-Hole Site Studies Limited)	Tine Thomas (Liverpool University)	Tom Crowley (University of Edinburgh)
14.00 - 14.30	Kurt Rudolph (Exxon Mobil) Current global exploration trends and global hotspots - prudent investments or irrational exuberance?	Duncan Nicholson (Arups) Canary Wharf development - Dewatering of the chalk aquifer to assist pile construction	David Gubbins (Leeds University) Thermal core-mantle interaction	Nick Butterfield (University of Cambridge) The Great Divide: life on Earth before and after the Ediacaran transition
14.30 - 15.00	Glenn Cayley (Shell) Future Global Hydrocarbon Resources	Sarah Terry and Ursula Lawrence (Crossrail) Crossrail	Brian Kennett (Australian National University) Seismology and Mantle Structure	Paul Hoffman (Harvard University) Was the last pan-glacial period a Snowball Earth?
15.00 - 15.30	Dirk Smit (Shell) New Technology Challenges to Hydrocarbon Exploration in the 21 Century	Tim Newman (Thames Water) The impact of geohazards on the Thames Water Ring Main	Bernie Wood (Macquarie University) Mineralogy of the transition zone and lower mantle	Mark Sephton (Imperial College, London) The end Permian: a mad, bad, mutagenic, molecular, mass extinction world
15.30 - 16.00	Tea and Coffee Break			
Session Chair	Richard Hardman (FX Energy)	Bernd Kulesa (EIGG Chairman)	Ken McCaffrey (Durham University)	Andy Watson (University of East Anglia)

16.00 - 16.30	Philippe Lacour-Gayet (Schlumberger) Should we bury Carbon?	Alan Green (ETH, Zurich) The development and application of geophysical tools for Environmental and Engineering Studies	Mark Zoback (Stanford University) Testing Fundamental Theories of Earthquakes and Faulting: The San Andreas Fault Observatory at Depth	Mike Benton (University of Bristol) The greatest mass extinction of all time
16.30 - 17.00	Tony Batchelor (GeoScience Limited) Geothermal Energy - Present and Future	Peter Styles (Keele University) How Microgravity came of age	J-P Brun (Université de Rennes) Mountain building and lithosphere rheology	Andrew Scott (Royal Holloway University of London) Wildfire: The burning issue - the geological history of fire
17.00 - 17.30	Michel Cuney (CREGU, France) World uranium resources	Rick Miller (Kansas Geological Survey) Seismic to characterize the near-surface	John Platt (University of Southern California) Tectonic evolution of orogenic hinterlands	Tim Lenton (University of East Anglia) The other side of Gaia: the causes and consequences of the major transitions
Closing remarks: 17.30 - 17.40	Richard Hardman (FX Energy)	Jim Griffiths (Plymouth University)		
17.30 - 19.30	Drinks reception and main posters session (Poster presenters will be by their poster between 18.00 - 18.45)			

Day 2, 11 September				
08.30 - 18.00 Registration				
08.00 - 09.00 Tea and Coffee				
	Session 1	Session 2	Session 3	Session 4
	Resources	Environment	Earth & Planetary Interiors	Earth Systems
Introduction 09.00 - 09.10	Martin Smith (University of Brighton)	Andrew Binley (Lancaster University)		Lynne Frostick (University of Hull)

Session Chair	Martin Smith (University of Brighton)	Andrew Binley (Lancaster University)	Phil Leat (British Antarctic Survey)	Lynne Frostick (University of Hull)
09.10 - 09.40	Richard Hardman (FX Energy) Knowledge management: The Indiann rope trick of the business world?	Rosemary Knight (Stanford, USA) The development of geophysical methods for hydrogeologic applications	Naomi Oreskes (University of California, San Diego) The rejection of continental drift: Historical reflections on scientific method	Paul Pearson (Cardiff University) Life and Climate in the Cenozoic
09.40 - 10.10	Ashok Belani (Schlumberger) Geologic Knowledge and Data Help Rescue the World's Hydrocarbon Production	Mark Everett (Texas A & M University) Electromagnetic imaging of the human-impacted subsurface	Chris Hawkesworth (University of Bristol) The Generation and Evolution of the Continental Crust	Paul Valdes (University of Bristol) Palaeoclimate records and climate modelling
10.10 - 10.40	Hugh Torrens (Keele University) Mineral prospecting in 1807	Niels Christensen (Aarhus, Denmark) Development and Application of Geophysics for Regional Aquifer Studies	Brian Wernicke (CalTec) Stress transfer via stick-slip crystal-plastic flow in the deep continental crust	Tom Crowley (University of Edinburgh) Glaciations in Earth History
10.40 - 11.10	Tea and Coffee Break			
Session Chair	Dick Sillitoe (International consultant, London)	Dr Michael Rivett (University of Birmingham)	Tom Argles (Open University)	Ruth Robinson (University of St Andrews)
11.10 - 11.40	Michael Harris (Rio Tinto) The Role of the Geologist in the Discovery and Development of the Simandou Iron Ore Project, Guinea	Doug Mackay (University of California at Davis) Groundwater impacts of new fuel formulations	Leigh Royden (Massachusetts Institute of Technology) Uplift and Evolution of the Eastern Tibetan Plateau	Liane Benning (University of Leeds) Survival of the fittest in extreme environments on Earth and elsewhere: Why should bugs care?

11.40 - 12.10	Graham Brown (Anglo American) Exploration Frontiers	Bernard Kueper (Queen's University, Canada) Behaviour and Remediation of Dense, Non-Aqueous Phase Liquids	Rick Sibson (University of Otago, NZ) Crustal Plumbing - Active Faulting and Hydrothermal Flow in Seismogenic Crust	Greg Tucker (University of Colorado) Theory, observation and scaling in landscape evolution
12.10 - 12.40	Dan Taranik (Anglo American) Exploring the Earth from Space: Applications of Remote Sensing to Mineral Exploration	Paul Younger (Newcastle University) Mine water: friend or foe?	Simon Peacock (University of British Columbia) Subduction Zones: H2O Recycling, Metamorphism, and Earthquakes	Niels Hovius (University of Cambridge) Erosion and Climate Variability
12.40 - 14.00	Lunch			
Session Chair	Hugh Torrens (Keele University)	Dr Daren Goody (British Geological Survey)	Louise Thomas (Open University)	Paul Hoffman (Harvard University)
14.00 - 14.30	Jim Franklin (Franklin Geosc. Ltd) Applications of Marine Geoscience to Mineral Exploration	Tony Appelo (Hydrochemical Consultant, Amsterdam) Transport phenomena in hydrogeochemistry	Ed Stolper (CalTech) Magma generation	Lynne Frostick (University of Hull) Storms, Sediments and Streams: how climate change may affect our river systems
14.30 - 15.00	Dick Tosdal (University of British Columbia) Tectonic Transitions and Magmatic-Hydrothermal Ore Deposits	Neil Chapman (ITC School of Underground Waste Storage and Disposal, and Univ. of Sheffield) Geological Disposal of Radioactive Wastes - international trends and issues for the UK	Jon Davidson (University of Durham) Processes of magma transport and storage	Eric Wolff (British Antarctic Survey) The ice core record of Quaternary climate and atmospheric composition

15.00 - 15.30	Dick Sillitoe (International consultant, London) Factors controlling major gold and copper concentrations at convergent margins	Ghislain de Marsily (Emeritus Professor, University Paris VI) Understanding aquifer heterogeneity: a challenge	Joe Cann (University of Leeds) Rapid formation of ocean lithosphere through complex integration of igneous, hydrothermal and tectonic processes	Harry Bryden (University of Southampton) Monitoring the Variability in the Atlantic Meridional Overturning Circulation
15.30 - 16.00	Tea and Coffee Break			
Session Chair	Mike Harris (Rio Tinto)	Dr William Burgess (University College London)	Steve Self (Open University)	John Catt (University College London)
16.00 - 16.30	Nick Arndt (University of Grenoble) Ore deposits in mafic-ultramafic rocks	David Lerner (University of Sheffield) Integrating groundwater into catchment management	Jeffrey Park (Yale University) Investigating Megathrust Earthquakes With 21st-Century Seismology	Russell Coope (University of Birmingham) Ice Age insects: a little world of big surprises
16.30 - 17.00	Lord Ron Oxburgh of Liverpool After Oil?	Mike Edmunds (Oxford University) Renewable and non-renewable groundwater - challenges for a water-thirsty world	Vincent Courtillot (Laboratoire de Paleomagnetisme Institut de Physique du Globe de Paris) Volcanic eruptions, global change and evolution of species	Peter Worsley (University of Reading) Quaternary permafrost

17.00 - 17.30		Stephen Foster (World Bank Groundwater Management Advisory Team Director) Groundwater - Trying to harmonise resource sustainability with economic development	Steve Sparks (University of Bristol) Volcanic hazards	Chris Stringer (Natural History Museum) Climate change and recent human evolution
Closing remarks: 17.30 - 17.40	Mike Harris (Rio Tinto)	Prof Bob Harris (University of Sheffield)	Steve Self (Open University)	John Catt (University College London)
18.00 - 19.00	Antarctic Sonata, Churchill Auditorium			
19.00 - 22.00	Conference dinner, Caxton lounge			