



**Australian Earth Sciences Convention
Media advisory for Wednesday 23 July 2008**

Australian Earth Sciences Convention Highlights day 3 – Wednesday

Australian Earth Sciences Convention, 20-24 July, Perth

Plenary speakers

9am

The Yarragadee Aquifer

Phil Commander, WA Geological Survey and Department of Water

9:45am

The Tsunami risk to Australia and what is being done to mitigate it

Dr Barry Drummond, Geoscience Australia

Other speakers

11.35am

Rupture characteristics of recent tsunamigenic earthquakes in Australasia, estimated from seismic and sea level data

Dr. Phil Cummins, Geoscience Australia

11.35am

The formation and early evolution of the solar system

Dr. Raquel Salmeron, Mt Stromlo Observatory

12.15pm

Formation of the Inner Solar System: new insights revealed by spacecraft data

Andrew Prentice, Monash University

12.35pm

Dust to Planets - what have we learned from Genesis and Stardust samples?

Judith Allton, NASA Johnson Space Center

12.35pm

The Glenburgh Terrane: a record of subduction and collision in the Paleoproterozoic Capricorn Orogen of Western Australia

Dr. Simon Johnson, Geological Survey of Western Australia

12.55pm

Early history of Planet Earth from combined 142-143Nd and 176Hf isotopic signatures

Dr. Vickie Bennett, Australian National University

2.20pm

Fortescue Metals Group Ltd - creating shareholder value from exploration

Stuart Robinson, Fortescue Metals Group Ltd

2.20pm

Volcano and earthquake risk in the Asia-Pacific Region

Jonathon Griffin, Geoscience Australia

2.20pm

Recent advances in the application of hydrogeophysics and regolith geoscience for groundwater and salinity mapping and management

Dr. Ken Lawrie, Geoscience Australia

2.40pm

The role of geoscience in developing the Indian Ocean Tsunami Warning System

Dr. Jane Cunneen, Intergovernmental Oceanographic Commission of UNESCO

2.40pm

Restoration of marine ecosystems following the Permian-Triassic mass extinction in Gondwanan interior sea

Dr. Zhong Qiang Chen, University of Western Australia

2.40pm

The Cambro-Ordovician, the Centralian Superbasin (Part 2) and trans-Gondwanan Seaways

Robert S. Nicoll, Australian National University

3pm

Geomorphology, crocodiles and mineralisation in Morobe Province, PNG

Dr. Robert Findlay, Montagu Minerals Mapping Pty Ltd

3pm

Molecular and isotopic evidence for a microbial response to the Triassic–Jurassic mass extinction

Dr. Kenneth Williford, Curtin University of Technology

3pm

Early evolution of Earth and Moon

Dr. Alexander Nemchin, Curtin University of Technology

3pm

Toward an understanding of tsunami risk in Tasmania

Colin Mazengarb, Mineral Resources Tasmania

3.20pm

Position of the end-Permian mass extinction level and Permian Triassic boundary in Australia

Prof. Ian Metcalfe, University of New England

3.20pm

Tsunami hazard in south-eastern Australia: preliminary findings from palaeotsunami investigations on the NSW coast

Amy Prendergast, Geoscience Australia

3.40pm

Three dimensional modeling of natural hazards using Geographic Information Systems

Dr. D. John Prabakaran, WA Department for Planning and Infrastructure

4.35pm

Understanding natural hazards using field geology and geochronology

Dr. Mark Quigley, The University of Melbourne

4.55pm

Integrating remote-sensing with airborne electromagnetics for vegetation and crop health along the River Murray Corridor

Dr. Vanessa Wong, Geoscience Australia

5.15pm

The Dalhousie Mound Spring Complex (South Australia) as a guide to Martian landforms and processes

Dr. Jonathan Clarke, Mars Society Australia

5.15pm

Discovery of a fossil slab in the lower mantle below the Tasman Sea using plate reconstructions and mantle tomography

Dr. Wouter Schellart, Monash University

5.15pm

Towards a better assessment of the seismic hazard in the southwest of Western Australia

Beatriz Estrada, University of Western Australia

5.35pm

Predicting hydrological threshold events in response to climate

Dr. Christoph Hinz, University of Western Australia

5.55pm

A hydrogeological-landscape framework providing new insights into salinity processes and management approaches

John Wilford, Geoscience Australia

5.55pm

Carbon dioxide storage sites: from prospects to pilots

Tess Dance, CO2CRC CSIRO Petroleum

Various Convention speakers and Convention organisers are available for interview.

What: 2008 Australian Earth Sciences Convention

When: Sunday 20 - Thursday 24 July 2008

Where: Perth Convention & Exhibition Centre, Perth

Contact: Patrick Daley (Patrick Daley Public Relations) on 0408 004 890

Find the full Convention program at www.iceaustralia.com/aesc2008. Media can access suggested **speaker and topic lists** (organised into subject headings and state-specific headings), as well as other background material, [on the Media page of the website](#) (abstracts are available from Patrick Daley). Media are urged to refer to the **speaker and topic lists** for more state-specific speakers and subjects.

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