



**Australian Earth Sciences Convention
Media advisory for Thursday 24 July 2008**

Australian Earth Sciences Convention Highlights day 4 – Thursday

Australian Earth Sciences Convention, 20-24 July, Perth

Plenary speakers

9am

The dynamic Earth – the new perspective from deep seismic imaging
Professor Michael Gurnis, California Institute of Technology

9.45am

New views of the chemistry and geology of the crust of Mars
Dr Jeffrey Taylor, Hawaii Institute of Geophysics and Planetology

Other speakers

11.35am

Acidic groundwater in the south-west of Western Australia: its distribution and causes
Adam Lillcrap, Department of Agriculture and Food Western Australia

11.35am

The impact of impacts: impact as a geological process and its significance in economic geology
Dr. Peter Haines, Geological Survey of Western Australia

11.35am

A regional landslide susceptibility programme in Tasmania
Colin Mazengarb, Mineral Resources Tasmania

11.35am

Fighting the plight: earth science on the march in Western Australia
Dr. James Ross, Earth Science Western Australia

11.55am

Assessment of geochemical risks of saline acidic ground-waters in the WA wheatbelt
Dr. Brad Degens, WA Department of Water

11.55am

The 'Lusi' Mud Eruption, Sidoarjo, East Java – a unique geological disaster
Dr. Mark Tingay, University of Adelaide

12.15pm

Discovery trails to early Earth – a traveller's guide to the east Pilbara

Dr. Martin Van Kranendonk, Geological Survey of Western Australia

12.15pm

The geophysical signatures of Australia's meteorite impact structures

Dr. Phil Hawke, University of Western Australia

12.15pm

Tertiary geoscience education in Australia: what future?

Dr. Trevor Powell, Australian Geoscience Council

12.35pm

A newly discovered meteorite impact crater, Ophthalmia Range, Western Australia

Dr. Arthur Hickman, Geological Survey of Western Australia

12.35pm

Treatment of saline acid drainage in the Western Australian wheatbelt: field evaluations

Dr. Brad Degens, WA Department of Water

12.35pm

Evolution of the Gawler-Adelie Craton: links with Antarctica, northern Australia and basement of the Trans-Hudson Orogen

Justin Payne, University of Adelaide

12.35pm

Gauging reasons for enrolment in an entry level university geology course: results of student surveys from 2002-2007

Dr. Karen Barovich, University of Adelaide

12.35pm

Rock tourism and the Black-footed Rock Wallaby

Alan Briggs, The National Trust of Australia

12.55pm

E.F. Pigot S.J.: the priest who knew about earthquakes

Dr. David Branagan, University of Sydney

12.55pm

Tectonic/volcanic control on salinisation of Bet Bet Creek, central Victoria

Dr. John Webb, LaTrobe University

2.20pm

Dryland salinity and woodland biota in a 'warming' south eastern Australia: endemic flora and fauna to the rescue!

Glen Bann, Australian National University

2.20pm

The difference between a rock and a hard place: using geology to add value to the nature-based tourism experience

A/Prof. Ian Clark, University of South Australia

2.20pm

An exploratory laboratory study of the role of water in seismic-wave attenuation

Prof. Ian Jackson, Australian National University

2.20pm

Tropicana Deposit: a new gold province in Western Australia

Dr. Mark Doyle, AngloGold Ashanti Limited

2.40pm

Fact-ites, Quizzicles and EarthCaching: the Geological Society of Australia education and outreach initiatives. Where to from here?

Greg McNamara, Geological Society of Australia

2.40pm

Geotourism and geoparks promote education for sustainable development

Patrick James, University of South Australia

2.40pm

Infrastructure planning and contamination management

Malcolm Dale, Parsons Brinckerhoff

3pm

Some natural and anthropogenic sources of groundwater contamination in the Himalayan mountain belt

Dr. M. Asim Yousafzai, University of Peshawar

3pm

William Blandowski's 1850s explorations of the geology and landscape of south-eastern Australia

Dr Doug McCann, Deakin University

3pm

The Teacher Earth Science Education Programme (TESEP) and Geoscience Pathways: a national scheme to assist teachers and help students discover Earth Science and associated career paths

Greg McNamara, Geological Society of Australia & Len Altman, Marden Senior College

3pm

Direct field evidence for Archaean and early Proterozoic Eros-scale asteroid impacts and major geodynamic consequences, Kaapvaal and Pilbara Cratons

Dr. Andrew Glikson, Australian National University

3pm

Supercontinents, supermountains and the rise of atmospheric oxygen

Prof. Ian Campbell, Australian National University

3.20pm

Geoscience and food traceability

Anita Andrew, Environmental Isotopes Pty Ltd

3.20pm

Living Geodiversity – simplified geology maps and linked eco-geo field trips for school and community education

Glen Bann, Australian National University

3.20pm

Tectonics, plumes and supercontinents: the energy link

Dr. Graham Begg, Minerals Targeting International PL, GEMOC, Dept of Earth and Planetary Sciences, Macquarie University

3.40pm

New perspective on the Lunar Cataclysm from crater density populations

Dr. Marc Norman, Australian National University

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.

Convention sponsors: the Diamond Sponsor of the 2008 Australian Earth Sciences Convention is Rio Tinto. Other major sponsors are Norilsk Nickel, Gold Fields, CSIRO Exploration and Mining, Integra Mining, Curtin University of Technology, the University of Western Australia, the Australian Journal of Earth Sciences, AngloGold Ashanti Australia, the Geological Survey of Western Australia, Geoconferences WA Inc., Gnostic Exploration Services PL, Chevron and Geoscience Australia. The major sponsor of an associated Student Careers Night is Independence Group NL and the Convention's Media Sponsor is the Resource Information Unit.