



**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, Ophalmia 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

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**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](http://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.