

AESC 2008
Geoscience in the Service of Society Theme

Sunday 20 July 2008	
0900–1700	PRE- CONFERENCE WORKSHOPS [TBA]
1500–1900	Registration
1730–1900	Trade Display Opens
1730–1900	Ice Breaker
Monday 21 July 2008	
0800–1700	Registration
0900–0930	Conference Opening
	Prof. Lyn Beazley, University of Western Australia
0930–1030	Plenary Session 1
	Mawson Lecture
	Making Mountains: Geological drivers and environmental consequences Prof. Peter Cawood, University of Western Australia
1030–1100	Morning Tea
1100–1245	Concurrent Session 1
	A4
	GEOSCIENCE IN THE SERVICE OF SOCIETY (1) - Groundwater
1105–1145	KEYNOTE
	The Role of Hydrogeology in Mining Doug Brown, MWH
1145–1205	Looking for mine water supply in the area of limited water allocation (Boggabri Coal, NSW) Katarina David, Parsons Brinckerhoff
1205–1225	Construction dewatering impacts on groundwater resources; regulation and management Gregory Russell, NSW Department of Water and Energy
1225–1245	
1245–1345	Lunch & Poster Presentations
1345–1530	Concurrent Session 2
	B4
	GEOSCIENCE IN THE SERVICE OF SOCIETY (1) - Groundwater
1350–1430	KEYNOTE
	Petroleum Hydrogeology application to Groundwater Management James Underschultz, CSIRO
1430–1450	Hydrogeology of the Leederville aquifer near Margaret River David Schafer, Department of Water
1450–1510	Ngukurr Groundwater Investigation, Northern Territory, Australia Jonathan Sumner, Northern Territory Government
1510–1530	Hydrogeology of the Shallow Aquifers at wadi el-Ghusein, NE Jordan Wael Al - Azaizeh, Al Al Bayt University
1530–1600	Afternoon Tea & Poster Presentations

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1600–1745	Concurrent Session 3 C4
	GEOSCIENCE IN THE SERVICE OF SOCIETY (1) - Groundwater
1605–1625	The Upper Loddon 'deep lead' palaeodrainage systems are discontinuous due to Mid Tertiary ENE-trending faults Sarah Hagerty, La Trobe University
1625–1645	Discovery of a Large Palaeochannel During Exploratory Groundwater Investigations at Glen Innes, NSW Graham Hawkes, Parsons Brinckerhoff
1645–1705	Sedimentology and Hydrogeology of Goods Road Palaeochannel, Perth, Western Australia Sean Adamas, CRC LEME, Department of Applied Geology, Curtin University of Technology
1705–1725	Groundwater - an agent of geology in land and water salinisation in the southwest of Western Australia Jayath Da Silva, Department of Water
1725–1745	Dryland salinity and geodiversity on the Southern Tablelands of NSW: the use of the EM (and AEM) technique for mapping and management? Glen Bann, Australian National University
1745–1845	Happy Hour (Expo Area)
18.00 - 20.00	SEG Mentor Event (venue tba)
Tuesday 22 July 2008	
0800–1700	Registration
0900–1030	Plenary Session 2 - International Year of Planet Earth
0900-0945	Australia's Energy Future (IYPE Theme: Resources - towards Sustainable Use) Peter McCabe
0945-1030	The Geological History of Climate Change Prof. Malcolm Walter, University of New South Wales
1030–1100	Morning Tea
1100–1245	Concurrent Session 4 D4
	GEOSCIENCE IN THE SERVICE OF SOCIETY (2) - Geoscience Information
1105–1145	KEYNOTE Auscope: Australian Earth Science Research Information Infrastructure Dr. Robert Woodcock, CSIRO Exploration and Mining
1145–1205	The Australian mineral occurrence data exchange model Adele Seymon, GeoScience Victoria
1205–1225	From takeover to take off: Issues in managing data transfers and migration in the current frenetic M&A environment Elizabeth Amann & Sue Grennan, BHP Billiton Nickel West and Margaret Ellis, Geological Survey of Western Australia
1225–1245	The 34th International Geological Congress – AUSTRALIA 2012: Progress and Prospects Dr. Ian Lambert, Geoscience Australia
1245–1345	Lunch & Poster Presentations

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1345–1530	Concurrent Session 5
	E4
	GEOSCIENCE IN THE SERVICE OF SOCIETY (2) - Geoscience Information
1350–1410	Joining forces for (geoscience) knowledge – Groundwater and mineral exploration, same approach, different targets Dr. Jon Fawcett, Department of Primary Industries, Victoria
1410–1430	Application of mineral exploration mapping tools and concepts to groundwater resource evaluation Mr. Bruce Gill, Department of Primary Industries, Victoria
1430–1450	Coastal Geographic Information System for the Northern Agricultural Region of the Western Australian Coast Alexandra Stevens, Curtin University
1450–1510	Geosyntax: a new computing language for geology data Dr. June Hill, CSIRO Petroleum
1510–1530	The GeoSciML logical data model of geological concepts Bruce Simons, GeoScience Victoria
1530–1600	Afternoon Tea & Poster Presentations
1600–1745	Concurrent Session 6
	F4
	GEOSCIENCE IN THE SERVICE OF SOCIETY (2) - Geoscience Information
1605–1625	A prototype information model and markup language for geochemical and geochronological information Dr Keith Sircombe, Geoscience Australia
1625–1645	The role of land use geoscience in urban planning and development in the Goldfields of Western Australia Chris Kojan, Geological Survey of Western Australia
1645–1705	Resource Mapping: A key ingredient for the mineral resources and development balancing act in South Australia Stuart Robertson, Geological Survey Branch, PIRSA Minerals and Energy Resources
1705–1725	Mineral potential mapping - geoscientific advice for public policy: an example from Western Australia Dr. Lee Hassan, Geological Survey of Western Australia
1725–1745	Titanium-zircon minerals - using geoscience in Western Australia to ensure future resource extraction Warren Ormsby, Geological Survey WA, Department of Industry & Resources
1745–1845	Happy Hour (Expo Area)
1830-2030	Student Careers Night (Expo Area)
1900–2200	GeoTrivia Night [Meeting Room 5]

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Wednesday 23 July 2008	
0800-1700	Registration
0900-1030	Plenary Session 3 - International year of Planet Earth
0900-0945	The Yarragadee Aquifer (IYPE Theme: Groundwater - towards sustainable use) Phil Commander
0945-1030	The Tsunami Risk to Australia and what is being done to mitigate it (IYPE Theme: Hazards - minimizing risk, maximising awareness) Dr. Barry Drummond, Geoscience Australia
1030-1105	Mixed Awards (35 mins)
1105-1130	Morning Tea
1130-1315	Concurrent Session 7
	G4
	GEOSCIENCE IN THE SERVICE OF SOCIETY (4) - Geohazards
1135-1215	KEYNOTE Rupture Characteristics of Recent Tsunamigenic Earthquakes in Australasia, Estimated from Seismic and Sea Level Data Dr. Phil Cummins, Geoscience Australia
1215-1235	Do strain-rates in deep ductile shear zones reflect seismogenesis at surficial levels of the same movement zone? Dr. Marnie Forster, The Australian National University
1235-1255	Earthquake magnitude in the context of rupture harvesting efficiency in different geodynamic environments Prof. Gordon Lister, Australian National University
1255-1315	Evidence for competing movement patterns influencing the evolution of the Sagaing-Sumatra wrench fault system Abhijit Deonath, The Australian National University
1315-1415	Lunch & Poster Presentations
1415-1600	Concurrent Session 8
	H4
	GEOSCIENCE IN THE SERVICE OF SOCIETY (4) - Geohazards
1420-1440	Volcano and Earthquake Risk in the Asia-Pacific Region Dr. Alanna Simpson, Geoscience Australia
1440-1500	The role of geoscience in developing the Indian Ocean Tsunami Warning System Dr. Jane Cunneen, Intergovernmental Oceanographic Commission of UNESCO
1500-1520	Toward an understanding of tsunami risk in Tasmania Colin Mazengarb, Mineral Resources Tasmania
1520-1540	Tsunami hazard in south-eastern Australia: preliminary findings from palaeotsunami investigations on the NSW coast Amy Prendergast, Geoscience Australia
1540-1600	Three Dimensional Modeling of Natural Hazards Using Geographic Information Systems Dr. D. John Prabakaran, Department for Planning and Infrastructure
1600-1630	Afternoon Tea & Poster Presentations

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1630-1815	Concurrent Session 9		
	I4		
	GEOSCIENCE IN THE SERVICE OF SOCIETY (4) - Geohazards		
	1635-1655	Understanding natural hazards using field geology and geochronology Dr. Mark Quigley, The University of Melbourne	
	1655-1715	Sediment quality As a factor of the distribution of damage at Bam,iran earth quake Khalil Rezaei, Lmu University Germany	
1715-1735	Towards a better assessment of the seismic hazard in the southwest of Western Australia Beatriz Estrada, University of Western Australia		
1735-1755	Reconciling neotectonic and seismic recurrence rates in SW Australia Dr. Mark Leonard, Geoscience Australia		
1755-1815			
1930-2300	Dinner (Bellevue Room 1)		
Thursday 24 July 2008			
0830-1700	Registration		
0900-1030	Plenary Session 4 - International Year of Planet Earth		
0900-0945	The dynamic earth - the new perspective from deep seismic imaging (IYPE Theme: Deep Earth - from crust to core) Prof. Michael Gurnis, California Institute of Technology, USA		
0945-1030	New Views of the Chemistry and Geology of the Crust of Mars Dr. Jeffrey Taylor, Hawaii Institute of Geophysics and Planetology, USA		
1030-1100	AIG / GSA Awards (30 mins)		
1100-1130	Morning Tea		
1130-1315	Concurrent Session 10		
	J3	J4	J10
	GEOSCIENCE IN THE SERVICE OF SOCIETY (6) - Geotourism	GEOSCIENCE IN THE SERVICE OF SOCIETY (4) - Geohazards	GEOSCIENCE IN THE SERVICE OF SOCIETY (5) - Geoscience Education
1135-1155	KEYNOTE Taking Geology to the Public: Geotourism and Geoparks Prof. Ross Dowling, Edith Cowan University School of Marketing	A regional landslide susceptibility programme in Tasmania Colin Mazengarb, Mineral Resources Tasmania	KEYNOTE Fighting the plight: earth science on the march in Western Australia Dr. James Ross, Earth Science Western Australia
1155-1215		The 'Lusi' Mud Eruption, Sidoarjo, East Java – A Unique Geological Disaster Dr. Mark Tingay, University of Adelaide	
1215-1235	Discovery trails to early Earth — a traveller's guide to the east Pilbara Dr. Martin Van Kranendonk, Geological Survey of Western Australia	Rapid uplift and fluvial impact from the Finisterre and Sarawaget Mountains, PNG Dr. Robert Findlay, Montagu Minerals Mapping Pty Ltd	Tertiary Geoscience Education in Australia: What future? Dr. Trevor Powell, Australian Geoscience Council

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1235-1255	Rock Tourism and the Black-footed Rock Wallaby Alan Briggs, The National Trust of Australia (WA)	Volume change behaviour of unsaturated compacted clay under plane strain condition Miftahul Fauziah, Curtin University of Technology	Gauging reasons for enrolment in an entry level university geology course: Results of student surveys from 2002-2007 Dr. Karen Barovich, University of Adelaide
1255-1315	The geotourism potential investigation of Kashmar township (Northeast of Iran) Morteza Taherpour Khalil Abad, Islamic Azad University	E.F. Pigot S.J.: The priest who knew about Earthquakes. Dr. David Branagan, University of Sydney	Geological Society of America's Public Policy Programs Dr. John Hess, Geological Society of America
1315-1415	Lunch & Poster Presentations		
1415-1600	Concurrent Session 11		
	K3	K10	
	GEOSCIENCE IN THE SERVICE OF SOCIETY (6) - Geotourism and Geoheritage	GEOSCIENCE IN THE SERVICE OF SOCIETY (5) - Geoscience Education	
1420-1440	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	Education & Outreach - An outline of the efforts of the Geological Society of America Gary Lewis, Geological Society of America	
1440-1500	Geotourism and geoparks promote education for sustainable development Patrick James, University of South Australia	Fact-ites, Quizzicles and EarthCaching: The Geological Society of Australia Education and Outreach Initiatives. Where to from here? Greg McNamara, Geological Society of Australia	
1500-1520	William Blandowski's 1850s Explorations of the Geology and Landscape of Southeastern Australia Dr Doug McCann, Deakin University	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	
1520-1540		Living Geodiversity' - simplified geology maps and linked eco-geo field trips for school and community education Glen Bann, Australian National University	
1540-1600			
1600-1630	Afternoon Tea & Poster Presentations		
1630-1730	Plenary Session 5		
	Best Paper and Poster Awards		