

AESC 2008
Earth's Environments - Past, Present and Future 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
	A9
	A10
	EARTH'S ENVIRONMENTS (4) - The Geology of Australia's Offshore areas
	EARTH'S ENVIRONMENTS (1) - Palaeo-environments
1105–1145	KEYNOTE Australia and the Integrated Ocean Drilling Program (IODP) Prof. Richard Arculus, Australian National University
	KEYNOTE Ancient analogues for CO2 sequestration in coal measures, Gunnedah and Bowen Basins, Australia Dr. Sue Golding, University of Queensland
1145–1205	The University of the Sea and the benefits to learning of active participation in a research cruise Kelsie Dadd, Macquarie University
	Foraminiferal tracers for climate and water-quality changes in Permian interior seas in northeastern Gondwana Dr. David Haig, The University of Western Australia
1205–1225	Quaternary evolution of Scott Reef, Northwest Shelf, Australia Dr. Lindsay Collins, Curtin University
	Age and stratigraphic constraints on the evolution of mega-lake Bungunna: Insights into Plio-Pleistocene climate change in southern Australia Dr. Sandra McLaren, University of Melbourne
1225–1245	Carbonate aeolianite systems within the Naturaliste-Leeuwin region of southwest Western Australia: correlation with the Pleistocene-Holocene chronology of the Perth region Diane Jorgensen, Geoscience Australia
	New perspectives on the palaeoecology of Cambrian phosphatic brachiopods Prof. Bob Henderson, James Cook University
1245–1345	Lunch & Poster Presentations
1345–1530	Concurrent Session 2
	B9
	B10
	EARTH'S ENVIRONMENTS (4) - The Geology of Australia's Offshore areas
	EARTH'S ENVIRONMENTS (1) - Palaeo-environments
1350–1410	Drowned reefs in the Great Barrier Reef and Hawaii: a new era in IODP coral reef drilling Dr. Jody Webster, James Cook University
	KEYNOTE Milestones in the evolution of the atmosphere with reference to climate change Dr. Andrew Glikson, Australian National University

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1410–1430	Multiphase palaeochannel development on the Great Barrier Reef Shelf, Australia Dr. Raphael Wust, James Cook University	Chemical composition of seawater in Neoproterozoic and Paleozoic: a contribution based on study of fluid inclusions in halite from Australia Prof Tadeusz Peryt, Panstwowy Instytut Geologiczny
1430–1450	Sediment flux and composition changes in canyons on a carbonate-siliciclastic margin: evidence from turbidite deposits along the Great Barrier Reef margin Dr. Jody Webster, James Cook University	Ice-rafting in the Mid-Ediacaran (~580 Ma) Adelaide Geosyncline and Officer Basin, South Australia Dr. Victor Gostin, University of Adelaide
1450–1510	Two New IODP Paleooceanographic Drilling Opportunities in the Timor Sea: Late Quaternary Paleooceanography and Tracking Sea Level change from the Late Miocene Bradley Opdyke, Australian National University	Age constraints on the Sturtian Glaciation in Adelaide Geosyncline, South Australia and the Pocatelo Formation of Idaho, USA indicate that there was no single Sturtian Snowball A/Prof. Mark Fanning, The Australian National University
1510–1530		Palaeoclimate driven eustatic signature of the Middle Devonian anoxic Pumillo Event from reef complexes of the Emanuel Range, Lennard Shelf Matthew Rolfe, University of Western Australia
1530–1600	Afternoon Tea & Poster Presentations	
1600–1745	Concurrent Session 3	
	C9	C10
	EARTH'S ENVIRONMENTS (4) - The Geology of Australia's Offshore areas	EARTH'S ENVIRONMENTS (1) - Palaeo environments
1605–1625	Mass wasting along the East Australian continental Slope Kriton Glenn, Geoscience Australia	Evidence for a massive H ₂ S release to surface waters at the Precambrian Cambrian (PC-C) boundary from Mo isotopes Martin Wille, Australian National University
1625–1645	Geology of the submarine Mellish Rise off Northeast Australia Dr. Neville Exon, Australian National University	Fácies patterns in carbonates of the Aptian Stage in Parnaíba Basin, Brazil and insights from possible modern analogues Ricardo Jahnert, Curtin University
1645–1705	Capel and Faust basins — geoscientific assessment of an offshore frontier region Riko Hashimoto, Geoscience Australia	Episodic anoxic events recorded in the Permian-Triassic transition of the Meishan section, South China: Sedimentary characterization and faunal response Dr. Zhong Qiang Chen, University of Western Australia
1705–1725	Proposed IODP coring of Cenozoic sequences of the northern Carnarvon Basin of Australia to answer global eustatic questions Dr. Neville Exon, Australian National University	
1725–1745	Late Cretaceous dysoxia in a southern high latitude deltaic to outer shelf succession, the Otway Basin, southeast Australia A/Prof. Stephen Gallagher	
1745–1845	Happy Hour (Expo Area)	
18.00 - 20.00	SEG Mentor Event (venue tba)	

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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
	D10
	EARTH'S ENVIRONMENTS (4) - The Geology of Australia's Offshore areas
1105–1125	Sequence Stratigraphy and Seismic Facies of the Eucla Basin, Great Australian Bight, South Australia. Sian Smith, University of Sydney
1125–1145	Ritter Volcano, West Bismarck Arc: tsunamigenic collapse and peridotite xenolith locality Prof. Richard Arculus, Australian National University
1145–1205	Tectonics and volcanism associated with the propagation of backarc spreading and associated rifting of an island arc: An example from the southeast margin of the North Fiji Basin Leonid V. Danyushevsky, CODES
1205–1225	
1225–1245	
1245–1345	Lunch & Poster Presentations
1345–1530	Concurrent Session 5
	E10
	EARTH'S ENVIRONMENTS (2) - Paleoclimate Research
1350–1430	KEYNOTE Patrick de Dekker
1430–1450	Long-term sea level fluctuations and paleogeography driven by ocean basin dynamics Dr. Dietmar Muller, The University of Sydney
1450–1510	Cenozoic biogeographic evidence for West Pacific Warm Pool formation and the initiation of the Kuroshio and Leeuwin Current A/Prof. Stephen Gallagher, The University of Melbourne
1510–1530	Distribution and ecology of benthic foraminifera in the Coorong Lagoon and adjacent waters, South Australia; to aid palaeo- reconstructions Prof. John Cann, The University of Adelaide
1530–1600	Afternoon Tea & Poster Presentations

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1600-1745	Concurrent Session 6
	F10
	EARTH'S ENVIRONMENTS (2) - Paleoclimate Research
1605-1625	Cenozoic carbonate response to climatic change due to a tectonic-induced latitudinal shift Dr. Moyra Wilson, Curtin University
1625-1645	Sea level reconstructions from fossil coral reefs along the Cape Range coast, Western Australia Dr. Andrea Dutton, Australian National University
1645-1705	Benthic Foraminifera assemblages in the northern Spencer Gulf, South Australia - further evidence for Holocene sea-level changes Mary-Anne Binnie, University of South Australia
1705-1725	MWP-1A and its implication for the moisture regime change over Borneo - evidence from peat archives Dr. Raphael Wust, James Cook University
1725-1745	
1745-1845	Happy Hour (Expo Area)
1830-2030	Student Careers Night (Expo Area)
1900-2200	GeoTrivia Night [Meeting Room 5]
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
	G10
	EARTH'S ENVIRONMENTS (2) - Paleoclimate Research
1135-1155	
1155-1215	
1215-1235	
1235-1255	
1255-1315	
1315-1415	Lunch & Poster Presentations

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1415-1600	Concurrent Session 8
	H10
	EARTH'S ENVIRONMENTS (3) - Environmental Hazards
1420-1500	KEYNOTE Dr. Ken Lawrie, Geoscience Australia
1500-1520	Architecture of an Entrenched Valley Fill, Murray River Dr. Jonathan Clarke, CRC LEME/Geoscience Australia
1520-1540	David Gibson, Geoscience Australia
1540-1600	Customised products derived using airborne EM and hydrogeological data to assist in land use management along the Murray River in New South Wales and Victoria, Australia Dr. Kok Piang Tan, Geoscience Australia
1600-1630	Afternoon Tea & Poster Presentations
1630-1815	Concurrent Session 9
	H10
	EARTH'S ENVIRONMENTS (3) - Environmental Hazards
1635-1655	Input of geomorphic and regolith mapping to the Interim Biogeographic Regionalisation for Australia (IBRA) Dr. Colin Pain, CRC LEME
1655-1715	Dr. Vanessa Wong, Geoscience Australia
1715-1735	David Gibson, Geoscience Australia
1735-1755	Predicting hydrological threshold events in response to climate Dr. Christoph Hinz, University of Western Australia
1755-1815	John Wilford, Geoscience Australia
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)

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1100-1130	Morning Tea
1130-1315	Concurrent Session 10
	J2
	EARTH'S ENVIRONMENTS (3) - Environmental Hazards
1135-1155	Acidic groundwater in the South west of Western Australia: Its distribution and causes Adam Lillicrap, Department of Agriculture and Food Western Australia
1155-1215	Assessment of geochemical risks of saline acidic ground-waters in the WA wheatbelt Dr. Brad Degens, Department of Water
1215-1235	Lake Muir–Unicup Natural Diversity Recovery Catchment — groundwater chloride/bromide ratios Margaret Smith, Curtin University of Technology
1235-1255	Treatment of saline acid drainage in the Western Australian wheatbelt: field evaluations Dr. Brad Degens, Department of Water
1255-1315	Tectonic/volcanic control on salinisation of Bet Bet Creek, central Victoria Dr. John Webb, LaTrobe University
1315-1415	Lunch & Poster Presentations
1415-1600	Concurrent Session 11
	K2
	EARTH'S ENVIRONMENTS (3) - Environmental Hazards
1420-1440	Dryland salinity and woodland biota in a 'warming' south eastern Australia: endemic flora and fauna to the rescue! Glen Bann, Australian National University
1440-1500	Infrastructure planning and contamination management Malcolm Dale, Parsons Brinckerhoff
1500-1520	Some natural and anthropogenic sources of groundwater contamination in the Himalayan mountain belt Dr. M. Asim Yousafzai, University of Peshawar
1520-1540	Geoscience and Food Traceability Anita Andrew, Environmental Isotopes Pty Ltd
1540-1600	
1600-1630	Afternoon Tea & Poster Presentations
1630-1730	Plenary Session 5
	Best Paper and Poster Awards