

DETAILED PROGRAM

MONDAY 7 JULY

KEY: Plenary speaker Keynote speaker Invited speaker Poster session

PLENARY 1 - Civic Auditorium						
0800 – 0815	Opening					
0815 – 0915	Between a rock and a hard place: communicating contested geoscience Iain Stewart					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	01EVA ENVIRONMENT <i>Hydrogeology, The Water Within</i>	01EGA ENERGY <i>Overview</i>	01DPA1 DYNAMIC PLANET <i>Oroclines In The Tasmanides</i>	01REA RESOURCES <i>Mineralogical Exploration - A session in honour and memory of Keith Scott</i>	01DPA2 DYNAMIC PLANET <i>Moon And Planets</i>	01SBA 39TH SYMPOSIUM ON THE ADVANCES IN THE STUDY OF THE SYDNEY BASIN
0930 - 0950	Neogene-to-recent tectonics: a keystone element of many hydrological/groundwater systems in Australia Ken Lawrie	Energy in Australia - an overview Alex Wonhas	The Giant Lachlan Orocline: Where? When? How? Why? And some economic implications for eastern Australia Ross Cayley	The concept of mineralogical exploration and the contribution of Keith Scott Kenneth McQueen	Similarities and differences between the compositions of the Earth's mantle and the Moon, and their implications for the Moon's origins Hugh O'Neill	Welcome Brad Mullard
0950 - 1010	Rainfall isotope (² H, ^δ ² H and ^δ ¹⁸ O) input to groundwater in Australia Cath Hughes			Mineralogical exploration, an industry perspective Michael Whitbread		The employment cycle for geoscientists: Where to next? Geoff Sharrock
1010 – 1030	Groundwater systems in northern Australia - are they suitable for a northern food bowl: evidence from residence times and geochemical analyses of ground and surface waters in the Lawn Hill region, north-west Queensland Mira van der Ley	01EGB ENERGY <i>Nuclear Energy</i> Mapping the architecture of sandstone-hosted uranium mineral systems in the Callabonna Sub-basin, Lake Frome region, using regional-scale airborne electromagnetic (AEM) data Ian Roach	Testing the Tasmanide Oroclines Robert Musgrave	Can pyrite chemistry betray pyrite origin? Application of discrimination function analysis to ore deposit hydrothermal pyrite populations Garry Davidson	Is there a window for plate tectonics in terrestrial planet evolution? Craig O'Neill	
1030 - 1100	MORNING TEA - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet room					

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	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	01EVB ENVIRONMENT <i>Hydrogeology, The Water Within</i>	01EGC ENERGY <i>Nuclear Energy</i>	01DPB1 DYNAMIC PLANET <i>Oroclines In The Tasmanides</i>	01REB RESOURCES <i>Mineralogical Exploration - A session in honour and memory of Keith Scott</i>	01DPB2 DYNAMIC PLANET <i>Tectonics Of The Tasmanides</i>	01SBB 39TH SYMPOSIUM ON THE ADVANCES IN THE STUDY OF THE SYDNEY BASIN
1100 – 1120	Vertical permeability of aquitards - core tests to basin scale modelling Douglas Anderson	The future for nuclear power in Australia Tony Irwin	A positive test for the Nambucca Orocline? Glen Phillips	Role of graphite in modifying the redox environment for low-temperature mineral alteration on southern Eyre Peninsula John Keeling	Mechanisms of continental growth along Eastern Gondwana during the Paleozoic: alternating periods of terrane accretion and continental magmatic flare-ups Solomon Buckman	A character set in stone: landscape, geology and the 1788 settlement at Sydney cove Tony Webster
1120 – 1140	Uncertainty in effective hydraulic conductivity due to geological heterogeneity Sanjeev Kumar Jha		Why the Manning and Hastings (Nambucca) oroclines do not exist Paul Lennox	The formation of precious opal in central Australia Patrice Rey	Geochemical evidence for provenance of Ordovician cherts in south-eastern Australia Michael Bruce	Coal exploration - 1830 style Russell Rigby
1140 – 1200	Estimating diffusion in heterogeneous groundwater systems using short-lived radio-isotopes and stable isotopes of iodine or bromine Mark Peterson	01EGD ENERGY <i>Clean Energy</i>	01DPC1 DYNAMIC PLANET <i>Earthquakes And Volcanoes In The Not-So-Stable Plate</i>	Soil carbonate: putting the fizz back into gold exploration Mel Lintern	Kinematic reconstruction of the Hastings Block, southern New England Orogen Jie Yan	Lithology and engineering behaviour, Newcastle Coal Measures Greg McNally
		Going deeper and hotter for cleaner, unconventional energy and mineral resources Klaus Regenauer-Lieb	Twenty (+) potential sites for Australia's next volcano: based on < 3 Ma volcanic areas (lat 9° – 41°S), volcanic trends, dynamic plate-settings and deep thermal upwelling mantle areas Lin Sutherland			
1200 – 1220	A hydrogeochemical study of shallow saline groundwater in south west Sydney, Australia Sarah Taylor		New faults in the barrow sub-basin: accommodation of present-day strain through reactivation, inversion and discrete new fault zones Toby Colson		Geochemistry of metasomatised and subducted mafic rocks in the Narooma Accretionary Complex – clues to their tectonic setting? Robin Oflfer	A gold-bearing alkaline intrusion in the southern Sydney Basin Ray Binns
1220 – 1320	LUNCH - Concert Hall & Banquet Room - Sponsored by Geoscience Australia					
	POSTER VIEWING - Banquet Room					

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	01EVC ENVIRONMENT <i>Hydrogeology, The Water Within</i>	01EGE ENERGY <i>Shale Gas And Tight Gas</i>	01DPD1 DYNAMIC PLANET <i>Earthquakes And Volcanoes In The Not-So-Stable Plate</i>	01REC RESOURCES <i>Mineralogical Exploration - A session in honour and memory of Keith Scott</i>	01DPC2 DYNAMIC PLANET <i>Tectonics Of The Tasmanides</i>	01SBC 39TH SYMPOSIUM ON THE ADVANCES IN THE STUDY OF THE SYDNEY BASIN
1320 – 1340		Unconventional gas prospectivity of the Cooper Basin Lisa Hall	Do earthquakes happen on faults? David Love	Landscape evolution and regolith architecture as critical elements for surface geochemical interpretation in Greenfields mineral exploration: the Albany-Fraser Orogen case Ignacio Gonzalez-Alvarez	The Narooma Terrane on the New South Wales continental slope and a connection with central Victoria Gordon Packham	CA-IDTIMS dating in Australia: the past, present and future Robert Nicoll
1340 – 1400	Groundwater requirements for a mining or coal seam gas gateway application George Gates	Petrophysical characterization of Cooper Basin shale and adaptability of traditional fracturing technologies P. Navinda K. De Silva	Using studies of the physical features of young monogenetic volcanic fields, including the newer volcanic province of south-eastern Australia, to help explore relationships between volcanism, earthquakes and tectonic setting Bernie Joyce	01RED RESOURCES <i>Gold Mineral Deposits Of Siberia And Far East Russia</i>	01DPD2 DYNAMIC PLANET NSW <i>The Thomson Orogen In Queensland And Northwestern NSW</i>	Revising stratigraphic correlations in the Sydney-Gunnedah Basin – Does recent tuff bed geochronological data justify it? Kevin Ruming
1400 – 1420		Changes in microstructure and elastic properties of organic-rich Mancos and Kimmeridge shales after pyrolysis Maxim Lebedev	01DPE1 DYNAMIC PLANET <i>Archean And Proterozoic Hot Orogens</i>	Mesozoic gold deposits of eastern Russia Nickolay Goryachev	Neoproterozoic to Devonian Thomson Orogen, northeastern Australia: implications for Rodinia assembly and Gondwana paleo-Pacific passive to active margin tectonics Chris Fergusson	Permian stratigraphy and tuff bed geochronology of the southern Sydney basin Erin Holmes
1420 – 1440	01EVD ENVIRONMENT <i>Groundwater Quality Implications Of Changes In Physical Water Management</i>	Application of hyper-spectral cathodoluminescence to study quartz overgrowth in sandstones and gas shales Zhongsheng Li	From Archaean lid tectonics to modern plate tectonics: the role of early continents Patrice Rey	The Darasun, Kariisky and Baley large gold ore deposits of Trans-Baikal region Alexandr Budyak	Interpreting basement geology in the southern Thomson Orogen David Purdy	From whence cometh the rain: source of the middle to late Permian ashfall tuffs of the Sydney and Gunnedah Basins Phillip Blevin
	Groundwater modernisation and associated chemical changes in a Hawkesbury sandstone aquifer (Kulnura-Mangrove Mountain, NSW, Australia) Dioni Cendon					

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1440 – 1510 AFTERNOON TEA - Concert Hall & Banquet Room						
POSTER VIEWING - Banquet Room						
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	01EVE ENVIRONMENT <i>Groundwater Quality Implications Of Changes In Physical Water Management</i>	01EGF ENERGY <i>Enhancing Recovery And Understanding Fugitive Emissions</i>	01DPF1 DYNAMIC PLANET <i>Archean And Proterozoic Hot Orogens</i>	01REE RESOURCES <i>Organic Geochemistry Of Mineral Systems</i>	01DPE2 DYNAMIC PLANET <i>The Thomson Orogen In Queensland And Northwestern NSW</i>	01SBD 39TH SYMPOSIUM ON THE ADVANCES IN THE STUDY OF THE SYDNEY BASIN
1510 – 1530	Linking groundwater dynamics and estuarine wetland restoration William Glamore	Description of a CO ₂ enhanced coal bed methane field trial using a multi-lateral horizontal well Luke Connell	Linking mineral systems with geodynamics and tectonics – a 'whole of geology approach' to the geological history Laurie Hutton	Organic matter metal interaction in the formation of ore deposits Lorenz Schwark	Pre-competitive minerals activities in the southern Thomson Orogen: unlocking the region's hidden resource potential Richard Blewett	Physical volcanology and xenolith petrology of a dyke intruding the Gerringong Volcanics, southern Sydney Basin: associated with proximal mid Permian volcanoes Glen Bann
1530 – 1550		The effect of residual water on CH ₄ -CO ₂ dispersion in consolidated rock cores Vahab Honari	Structure and geometry of the Fraser Zone, east Albany-Fraser Orogen Lucy Brisbout		Deciphering the structural framework of the central and southern Thomson Orogen, Australia Michael Doublier	Recalibrating the Permian and Triassic palynostratigraphic scheme via U-Pb zircon CA-IDTIMS dating of tuffs in eastern Australian basins John Laurie
1550 – 1610	Using contaminant mass flux and mass discharge to support groundwater remediation at Barangaroo, Sydney, Australia Graham Hawkes	Direct measurement of fugitive gas emissions from open cut coal mines Abouna Saghafi	Magnetotelluric survey across Central Australia: new constraints on lithospheric architecture Stephan Thiel	Combined sulfur, carbon and redox budget constraints on genetic models for clastic-dominated base-metal sulfide deposits: Examples from the Here's Your Chance Pb-Zn Deposit, Australia Jeffrey Dick	Exhumation of the Thomson Orogen within basement-cored structures of eastern Queensland Charles Verdel	Age of the Yarrabee Tuff Member and its significance towards regional stratigraphy of the Fort Cooper Coal Measures Syeda Areeba Ayaz
1610 – 1630	Riparian zone processes and implications for water quality and management of connected water systems - a case example of arsenic geochemistry Martin Sogaard Andersen	The complexities of continuous air monitoring in attributing methane to sources of production Charlotte Iverach	From the surface to the MOHO and back in a few MYRS: particle's flow path in a sagduction system Patrice Rey	Organic Matter in orogenic gold (Au) systems Aileen Robert	The fate of the Mount Wright Arc and development of the Southern Thomson Orogen: evidence from the Koonenberry Belt of northwest NSW John Greenfield	Dating of shallow brittle faults within the Sydney Basin – new constraints on the breakup of Gondwana Horst Zwingmann
1630 – 1730	POSTER VIEWING & DRINKS - Banquet Room (Cash bar for beverages)					
1930 - 2130	PUBLIC FORUM - Civic Auditorium					

DETAILED PROGRAM

TUESDAY 8 JULY

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PLENARY 2 - Civic Auditorium						
0815 - 0915 Australia's big challenges – the role of geoscience Chris Pigram						
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	02EVA ENVIRONMENT <i>Groundwater Quality Implications Of Changes In Physical Water Management</i>	02EGA ENERGY <i>CO₂ Geological Storage – Locked In For The Long-Term</i>	02REA1 RESOURCES <i>Magnetic Anomalies And Geological Interpretation</i>	02REA2 RESOURCES <i>Optical Sensing for Advanced Mineral Characterisation For Exploration And Mining</i>	02DPA DYNAMIC PLANET <i>Composition And Evolution Of The Earth</i>	02SBA 39TH SYMPOSIUM ON THE ADVANCES IN THE STUDY OF THE SYDNEY BASIN
0930 - 0950	Groundwater quality in a coastal aquifer - A case study of water quality changes due to the degradation of organic matter Ivona Maric	Geological CO ₂ storage - a solution for deep emission cuts in Australia? Matthias Raab	Magnetic minerals, phase interfaces and magnetic anomalies Suzanne McEnroe	Applications of Visible and Near Infrared Spectroscopy in Studies of Metamorphic and Hydrothermal Systems Edward Duke	Innovation in Australian geochronology and thermochronology Andrew Gleadow	Small fault identification through seismic diffraction imaging Binzhong Zhou
0950 - 1010	Managed aquifer recharge and strategic aquifer storage in northern Australia: challenges and opportunities Ken Lawrie					Integrated analysis and modelling of geophysical logs from coal measure strata Peter Hatherly
1010 - 1030	Investigating the origin of salinity and aquifer interaction in a seasonally pumped confined aquifer system in southeast Australia (Western Port Basin) Stephen Lee	Multi-scale imaging of Precipice Sandstone core plugs and cross property correlations Pieter Botha	Peculiarities and problems in the remanent magnetization of rhombohedral Fe-Ti oxides Peter Robinson	Towards quantifying lateritic nickel composition: application of reflectance spectroscopy Martin Wells	Zircon production, U-Pb geochronology and Hf-O isotope characteristics of the Middledale Gabbroic Diorite: implications for the TEMORA zircon reference material Kieran Iles	Moving window power spectrum analysis of potential field data : new tools for imaging basement topology and stratigraphy in the Sydney Basin Philip McClelland
1030 - 1100	MORNING TEA - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet Room					

DETAILED PROGRAM

TUESDAY 8 JULY

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	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	02EVB ENVIRONMENT <i>Scientific Results Of The Integrated Ocean Drilling Program (IODP)</i>	02EGB ENERGY <i>CO₂ Geological Storage – Locked In For The Long-Term</i>	02REB1 RESOURCES <i>Magnetic Anomalies And Geological Interpretation</i>	02REB2 RESOURCES <i>Optical Sensing for Advanced Mineral Characterisation for Exploration And Mining</i>	02DPB DYNAMIC PLANET <i>Composition And Evolution Of The Earth</i>	02SBB 39TH SYMPOSIUM ON THE ADVANCES IN THE STUDY OF THE SYDNEY BASIN
1100 – 1120	The Australian and New Zealand role in scientific ocean drilling Neville Exon	Mineral character of sedimentary facies associations, lower Jurassic, Surat Basin, Queensland Michaela Grigorescu	The first national-scale mapping of magnetisation direction Clive Foss	Vibrational spectroscopy of calc-silicate minerals and its potential in mapping low-grade regional metabasites Monica leGras	Building national infrastructure using TerraneChron® and lithosphere mapping Norman Pearson	A geological review of the Cobbora area, NSW Sarah Jardine
1120 – 1140		Time series imaging and conventional experimental studies of Chinchilla-4 well samples to measure geochemical reactivity and dissolution trapping capacity of core material using supercritical CO ₂ Silvano Sommacal	Giles, complex, magnetism James Austin	How hyperspectral sensing is improving productivity in BHP Billiton iron ore exploration Maarten Haest	The enigma of crustal zircons in upper mantle rocks: Insights from U-Pb ages, Hf-O-isotopes and trace-element signatures (Tumut region, SE Australia) Elena Belousova	Sedimentary and coal seam stratigraphy in the Maules Creek Sub-basin - an update Mark Dawson
1140 – 1200	A 5 million year history of reefs, ocean and climate on the northwest shelf of Australia: International Ocean Discovery Program Expedition 356 (2015) Stephen Gallagher	CO ₂ -water-rock interactions: mineral reactivity under CO ₂ storage conditions Jay Black	02REC1 RESOURCES <i>Reconstructing Precambrian Geological Processes, Palaeogeographic And Geodynamic Settings, And Ore Deposits</i> Formation of a 2.7 Ga large igneous province by progressive crustal contamination of two pulses of komatiitic magmatism: a lithological and geochemical study of the Agnew Greenstone Belt, Kalgoorlie Terrane, Yilgarn Craton Patrick Hayman	South Australia's heavy mineral resources: models, geology and exploration of deposits Baohong Hou	Performance of the Helix-MC multi-collector noble gas mass spectrometer – resolution of argon isobaric interferences Masahiko Honda	Overview of groundwater responses to longwall coal mining in the Sydney Basin, Australia Katarina David

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1200 – 1220	Geochemistry and source of ash layers in Bering Sea sediment at IODP Site 323-U1341 Kelsie Dadd	Selection of potential sites for the geological storage of CO ₂ in the offshore Vlaming Sub-Basin, southern Perth Basin Irina Borissova	A new palaeomagnetic study of the Warakurna large igneous province: the Giles Complex, Musgrave ranges, central Australia, and Euro area, Yilgarn Craton, Western Australia Phillip Schmidt	Mapping alteration minerals and structural features associated with IOCG mineralization from ASTER data: a case study in the Saveh area, Central Iran Hooshang Asadi Haroni	New developments in ⁴⁰ Ar/ ³⁹ Ar geochronology from multi-collector mass spectrometry David Phillips	An event horizon in the Sydney Basin: passage of a forebulge? Martin Van Kranendonk
1220 – 1320	LUNCH - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet Room					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	02EVC ENVIRONMENT <i>Scientific Results Of The Integrated Ocean Drilling Program (IODP)</i>	02EGC ENERGY <i>CO₂ Geological Storage – Locked In For The Long-Term</i>	02RED1 RESOURCES <i>Reconstructing Precambrian Geological Processes, Palaeogeographic And Geodynamic Settings, And Ore Deposits</i>	02REC2 RESOURCES <i>The 3rd National Virtual Core Library Symposium</i>	02DPC DYNAMIC PLANET <i>Composition And Evolution Of The Earth</i>	02SBC 39TH SYMPOSIUM ON THE ADVANCES IN THE STUDY OF THE SYDNEY BASIN
1320 – 1340	“Chikyu” riser drilling results and her future challenges Kyaw Moe	Authigenic carbonates in the great artesian basin as natural analogues of mineralisation trapping in CO ₂ sequestration Suzanne Golding	Genesis of the Central Zone of the Nolans Bore rare earth element deposit, Northern Territory Louise Schoneveld	There and Back Again: A Mineral Habit's Tale Phil Harris	An evaluation of apatite fission track dating by LA-ICP-MS Christian Seiler	Changes to the Australian coal guidelines David Arnott
1340 – 1400	Exploration of Miocene biomarkers in cored sedimentary rocks from IODP Expedition 317, Canterbury Basin, New Zealand Sophia Bratenkov	Mineral trapping capacity in reservoirs with variable mineralogies – a mass balance approach Ralph Haese	Geochronology and lithostratigraphy of a major Birimian sedimentary basin: insight into the tectonostratigraphic evolution and gold mineralisation controls of the Siguiiri Basin, Guinea (West Africa) Erwann Lebrun		Changes in global magmatism and the limitations of Hf-O isotope data in zircon Norman Pearson	Resource classification in coal - it's time to stop going around in circles Monica Davis

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1400 – 1420	Highlights of IODP research and future outlook Dick Kroon	Characterisation of potential CO ₂ -water-rock dynamics during geological sequestration in a low salinity, silicate reservoir system Kyle Horner	02REE1 RESOURCES <i>Multiscale Characterisation Of Ore Forming Processes</i>	Maximising the value of NVCL HyLogger data: understanding automated mineralogical interpretation Belinda Smith	Dating movement through microstructure Marnie Forster	Can new standards improve coal resource estimation and reporting practice? Sue Border
			Metal release from biotite during prograde metamorphism as a source for Pb-Zn ore deposits Carl Spandler			
1420 – 1440		Assessment framework for the interaction between CO ₂ geological storage and earth resources in Australian sedimentary basins Karsten Michael	Regional scale metasomatism in the Hamersley Basin: A 100,000 km ² footprint? Alistair White	Skarn style alteration & inversion modelling at Red Lake, South Australia Georgina Gordon	The AUSCOPE AGOS GEOHISTORY Facility: A novel instrument suite for laser microanalytical in-situ U-Th-Sm-Pb-He geochronology and thermochronology Brent McInnes	Coal exploration data integrity and management Brett Larkin The coal quality data exchange (CQDX) project - ramifications for reporting according to JORC Jared Armstrong
1440 – 1510	AFTERNOON TEA - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet Room					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	02EVD ENVIRONMENT <i>Scientific Results Of The Integrated Ocean Drilling Program (IODP)</i>	02EGD ENERGY <i>CO₂ Geological Storage – Locked In For The Long-Term</i>	02REF1 RESOURCES <i>Multiscale characterisation of ore forming processes</i>	02RED2 RESOURCES <i>The 3rd National Virtual Core Library Symposium</i>	02DPD DYNAMIC PLANET <i>Composition And Evolution Of The Earth</i>	02SBC (Cont) 02SBD 39TH SYMPOSIUM ON THE ADVANCES IN THE STUDY OF THE SYDNEY BASIN
1510 – 1530	IODP expeditions 343 and 343T, the Japan Trench Rapid Drilling Project (J-FAST) yield new insights into the mechanics and structure of subduction thrust faults Virginia Toy	Seabed structures, sediments and habitats in Joseph Bonaparte Gulf, northern Australia: seabed mapping in support of potential offshore CO ₂ storage options William Anthony Nicholas	Multiscale controls on gold mineralisation at Plutonic gold mine, Marymia Inlier, Western Australia Michael Gazley	Targeting iron ore in banded iron formation using the HyLogging system Paul Duuring	High precision ⁴⁰ Ar/ ³⁹ Ar dating of <100 ka basalts from south-eastern Australia using an ARGUSVI multi-collector mass spectrometer Erin Matchan	Discussion Coal Seam Gas in NSW - 35 years of discovery in a nutshell Malcolm Bocking

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1530 – 1550	Insight into the Eocene: marine sedimentary sequences from IODP Expedition 342 William Bonney	Impurity effects in O ₂ -SO ₂ -CO ₂ -water-rock reactions relevant to CO ₂ storage in the Surat Basin Julie Pearce	Quartz geochemistry in ore genesis; Merlin (Mo-Re), Cloncurry Joshua Greene	HyLogging wet core from Broken Hill managed aquifer recharge project Alan Mauger	Fe isotopes and the contrasting petrogenesis of a-, i- and s-type granite John Foden	Discussion	Observations on the distribution of coal seam gas in the Sydney Basin and the development of a predictive model Scott Thomson
1550 – 1610	Slow sliding of gas-hydrate-bearing landslides on the Hikurangi Margin, New Zealand Ingo Pecher	Eddy Covariance's role as a monitoring technique for geological storage of CO ₂ Ivan Schroder	Tectono-stratigraphic evolution of the Sadiola gold camp, Mali, West Africa: defining the framework of a world-class gold province Quentin Masurel	Exploring for rare earth elements using reflectance spectroscopy Sidy Morin-Ka	02DPE DYNAMIC PLANET <i>Mantle, Deep And Shallow</i>		Sydney Basin gas layering - the hydrochemical link Agi Burra
1610 – 1630	A Comparative Multiproxy Approach To Address Paleo-Redox Change At The Paleocene-Eocene Boundary, New Jersey Continental Margin Amy Chen	Understanding of the geomechanical stability of CO ₂ containment at the South West Hub, Western Australia: a coupled geomechanical-fluid flow modelling approach Yanhua Zhang	The timing and controls on the formation of the Yandera deposit Oleg Koudashev	Chlorite compositional changes in response to mineralisation; examples from the Nymagee Mine and Great Cobar Deposit, NSW David Tilley	Multi-anvil high-pressure technology and mineralogy of the deep mantle Tetsuo Irifune		Gas penetration into fine pores of coals: comparing Sydney Basin and North American coals Richard Sakurovs
1630 – 1730	POSTER VIEWING & DRINKS - Banquet Room (Cash bar for beverages)						
1730 - 1900	GSA AWARDS - Hunter Room						
1930 - 2030	MAWSON LECTURE - Early vertebrate evolution – some contributions from the rocks of East Gondwana (Australia–Antarctica) - Gavin Young						

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WEDNESDAY 9 JULY

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PLENARY 3 - Civic Auditorium						
0815 - 0915	Groundwater and the geosciences: miles to go before we sleep Craig Simmons					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	03EVA ENVIRONMENT <i>Coal Seam Gas And Groundwater</i>	03EGA ENERGY <i>Terrestrial Sequestration Of CO₂ - Advantages Of The Biosphere</i>	03ISCA INFRASTRUCTURE, SERVICE & COMMUNITY <i>Australian Geological Heritage And The National Heritage List; Are We Being Over Run By The Biologists?</i>	03REA RESOURCES <i>UNCOVER - Searching The Deep Earth</i>	03DPA DYNAMIC PLANET <i>Fluids And Melts From Core To Crust</i>	03CPOA COMPARISONS & CONTRASTS IN CIRCUM-PACIFIC OROGENS SYMPOSIA
0930 - 0950	Hydrogeological management and research for a major CSG project Andrew Moser	Terrestrial sequestration of CO ₂ - moving toward solutions Judy Bailey	Geological heritage around Canberra - a template for national recognition Douglas Finlayson	'Prospecting Drilling': A technology-enabled revolution in mineral exploration Richard Hillis	Was the early Earth stagnant? Craig O'Neill	Do orogenic processes differ from west to east? A comparative analysis of Circum-Pacific Orogens Gordon Lister
0950 - 1010						
1010 - 1030	The law and reality of the coal seam gas industry in New South Wales and Queensland Adam Edwards	Mineral carbonation as a reliable, safe and permanent means to sequester CO ₂ ; Carbonic acid dissolution of silicates and CO ₂ degassing as mechanisms in an integrated mineral carbonation scheme Tim Oliver	03ISCB INFRASTRUCTURE, SERVICE & COMMUNITY <i>Geotourism - Enhancing Public Appreciation Of Geoheritage And Earth Sciences History</i> The glass-negative photographic collection of the Geological Survey of Western Australia Angela Riganti	The crust beneath the Nullarbor: first images of the Eucla-Gawler deep seismic reflection line (13GA-EG1) Richard Blewett	A mantle xenolith perspective on kimberlite petrogenesis Andrea Giuliani	Neoproterozoic global geodynamic rearrangement recorded by Hf isotopes in zircon: birth of the Circum-Pacific and dawn of the Phanerozoic Erin Martin
1030 - 1100	MORNING TEA - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet Room					

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	03EVB ENVIRONMENT <i>Coal Seam Gas And Groundwater</i>	03EGB ENERGY <i>Terrestrial Sequestration Of CO₂ – Advantages Of The Biosphere</i>	03ISCC INFRASTRUCTURE, SERVICE & COMMUNITY <i>Geotourism - Enhancing Public Appreciation Of Geoheritage And Earth Sciences History</i>	03REB RESOURCES <i>UNCOVER - Searching The Deep Earth</i>	03DPB DYNAMIC PLANET <i>Fluids And Melts From Core To Crust</i>	03CPOB COMPARISONS & CONTRASTS IN CIRCUM-PACIFIC OROGENS SYMPOSIA
1100 – 1120	Impacts of coal seam gas extraction on water resources and water-related assets in eastern Australia David Post	Mineral carbonation employing ultramafic mine waste Gordon Southam	A vision for the National Rock Garden Brad Pillans	The character of the lithosphere-asthenosphere transition beneath the Australian continent Brian Kennett	How supercontinent cycles affect the vigour of oceanic hydrothermal circulation and seawater chemistry Dietmar Müller	Zealandia's 0.5 Ga subduction history Nick Mortimer
1120 – 1140	Propagating uncertainty from geological to ecological models Luk Peeters	Formation of weathering-derived magnesite deposits in the New England Orogen, New South Wales, Australia: Implications from mineralogy, geochemistry and genesis of the Attunga magnesite deposit Hans Oskierski		Recognising significant regional metallogenic controls with subtle signatures Vladimir Lisitsin		Pre-Cretaceous basement of Chatham Island: stratigraphy, deformation, metamorphism, age and crustal heritage Peter Robinson
1140 – 1200	Groundwater modelling in the bioregional assessment projects Russell Crosbie	03EGC ENERGY <i>Petroleum Prospectivity, Exploration And Modelling Of Proven And Frontier Basins</i>	Geotourism and Geoheritage - compelling lessons from Scotland Suzanne Miller	Crustal electrical resistivity heterogeneity: a vector to mineralisation? Graham Heinson	Accretion of andesitic crust along a high-temperature oceanic detachment fault in the Oman Ophiolite (Bahla Massif) Benedicte Abily	Australian crust in a Pacific island arc Janrich Buys
1200 – 1220	Geological and hydrogeological data analyses to support bioregional assessments in the Clarence-Moreton Basin Tao Cui	Fossil fuels for the future Peter McCabe		Investigating the electrical lithosphere of the Flinders Ranges using magnetotellurics Kate Robertson	How deformation affects reaction rates: new insights from phase transformation experiments in the KBr-KCl-H ₂ O system Liene Spruzeniece	Orogens of southeast Asia and their link to Tethyan and (proto-) Pacific tectonic evolution Sabin Zahirovic

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1220 – 1320	LUNCH - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet Room					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	03EVC ENVIRONMENT <i>Coal Seam Gas And Groundwater</i>	03EGD ENERGY <i>Petroleum Prospectivity, Exploration And Modelling Of Proven And Frontier Basins</i>	03ISCD INFRASTRUCTURE, SERVICE & COMMUNITY <i>Geotourism - Enhancing Public Appreciation Of Geoheritage And Earth Sciences History</i>	03REC RESOURCES <i>UNCOVER - Searching The Deep Earth</i>	03DPC DYNAMIC PLANET <i>Fluids And Melts From Core To Crust</i>	03CPOC COMPARISONS & CONTRASTS IN CIRCUM-PACIFIC OROGENS SYMPOSIA
1320 – 1340	Permian and Triassic hydrogeology of the southern Sydney Basin: implications for coal seam gas development Nicola Fry	Why are conjugate passive margins often asymmetric? - a new answer to an old question Sascha Brune	Promoting Australia-China relationship through geoparks Young Ng & Angus M Robinson	Geochemistry expands the exploration fairway for the mineralised copper porphyries in Western Victoria David Taylor	Metal sources and transport mechanisms at crust-mantle boundary conditions: new search space for deep-seated magmatic mineral systems Marco Fiorentini	Control of subduction zone size on slab rollback, style of mantle flow and overriding plate deformation Wouter Schellart
1340 – 1400	Baseline hydrochemical and isotopic studies of groundwater and surface water in the Gloucester Basin, NSW Carolina Sardella	The spatio-temporal evolution of surface dynamic topography driven by deep mantle processes since the Cretaceous Michael Rubey	Australian geoheritage: priceless geotourism potential - available and ready to use Patricia Erfurt-Cooper	Geomicrobiological pathways to mineral exploration in the deep Frank Reith		
1400 – 1420	Assessment of aquifer/aquitard connectivity in the Galilee and Eromanga Basins using geology, hydrochemistry and ⁸⁷ Sr/ ⁸⁶ Sr isotopes Claudio Moya	Tectonic controls on oil and gas seeps and shale gas accumulations, onshore Timor-Leste Myra Keep	Geotourism and Australian national landscapes Angus M Robinson & Ross Dowling	Meat ants (<i>Iridomyrmex purpureus</i>) are better metal prospectors than termites Ian Pringle	Archean lithospheric mantle: the fount of all ores? Suzanna O'Reilly	Evolution of the long-wavelength topography of South America since 150 Ma in response to eastern Pacific subduction Nicolas Flament
1420 – 1440	Interpreting groundwater chemistry to frame water risks of CSG development Charles Brooking	Source rock potential in an active continental margin: Myall Trough, south-eastern Australia Angelos Maravelis	Jenolan Caves - an evolving geotourism location Steve McClean	03RED RESOURCES <i>3D Geoscience: Methods, Applications And Challenges In Imaging And Analysing Solid Earth Systems At Different Scales</i>	Evolution of Earth's early crust - coupling petrological and 2D numerical modelling Tim Johnson	Tectonic evolution of the North American cordillera: a western Pacific perspective Bill Collins

KEY: Plenary speaker | Keynote speaker | Invited speaker | Poster session

				3D earth imaging of regions and continents: the challenge of data fusion across multiple scales Anya Reading		
1440 – 1510	AFTERNOON TEA - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet Room					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	03EVD ENVIRONMENT <i>Coal Seam Gas And Groundwater</i>	03EGE ENERGY <i>Coal – An Old Resource In A New Age</i>	03ISCE INFRASTRUCTURE, SERVICE & COMMUNITY <i>Geotourism - Enhancing Public Appreciation Of Geoheritage And Earth Sciences History</i>	03REE RESOURCES <i>3D Geoscience: Methods, Applications And Challenges In Imaging And Analysing Solid Earth Systems At Different Scales</i>	03DPD DYNAMIC PLANET <i>Fluids And Melts From Core To Crust</i>	03CPOD COMPARISONS & CONTRASTS IN CIRCUM-PACIFIC OROGENS SYMPOSIA
1510 – 1530	Fault seal characterisation for CGS-aquifer interaction Jim Underschultz	Ashford Coal Measures, once a valuable local resource, now internationally isolated and a geological enigma Brian Roach	Kanawinka Geopark - latest developments and building an Australian model for geoparks Ian Lewis & Bernie Joyce	High-resolution X-ray computed tomography: application to igneous petrology and ore deposits Belinda Godel	Tibetan chromitites: to the transition zone and back? Nicole McGowan	The Tasmanide Benambran line: a reference for historical interpretation of orogenic zone development in eastern Australia Robert Henderson
1530 – 1550	Hydrogeological field investigation of a fault zone in the Gloucester Basin, NSW: implications for assessing regional groundwater impacts Stuart Brown	Inorganic matter in Victorian brown coals Mihaela Grigore	Quality information - The basis for successful geotourism Bruce Leaver	Using synchrotron X-ray microtomography to image structure and porosity in sheared Neoproterozoic granite, Yilgarn Craton, Western Australia Klaus Gessner	Transition-zone metamorphism in "ophiolitic" chromitites: insights into collision-zone dynamics William Griffin	Mid Permian - mid Triassic flat subduction In the southern New England Orogen Jeff Brownlow
1550 – 1610	Assessing the role of faulting on groundwater impacts from coal seam gas: local-scale numerical modelling in the Gloucester Basin, NSW Becky Rollins	A new sub-surface fracture height prediction model for longwall mines in the NSW coalfields Steven Ditton	Mining geoheritage activities in the AusIMM Sandra Close & Geoff Sharrock	3D crustal architecture of the east Albany-Fraser Orogen in Western Australia from passive seismic data Christian Sippl	Subduction refertilization of orogenic lithosphere detected by trace elements in olivine Stephen Foley	Geochemistry and geochronology of the igneous rocks within the Lorne Basin, southern New England Orogen, NSW, Australia Joshua John Richardson

DETAILED PROGRAM

WEDNESDAY 9 JULY

KEY: Plenary speaker Keynote speaker Invited speaker Poster session	1610 – 1630	Aquitard hydraulic properties estimation from wireline logs analysis: an application to the Surat Basin, Queensland Ludovic Ricard	Advances in assessing coke oven feed samples by coal grain analysis (CGA) Karryn Warren	Geotourism around Canberra - based on a geoheritage website catalogue Douglas Finlayson	Insights into the structure of the McArthur Basin using the implicit 3D modelling method: preliminary results Pierre-Oliver Bruna	Sulfur dioxide degassing during Archean komatiite volcanism Boswell Wing	Rapid advance from hydrous to biotite-dehydration melting of a metasedimentary source in the formation of the Jiufeng Pluton, southern China: a result of basaltic underplating during slab foundering? Huiqing Huang
	1630 – 1730	POSTER VIEWING & DRINKS - Banquet Room (Cash bar for beverages)		'Geotourism - The Potential for Employment Opportunities for Geoscientists' Panel Session Chair: Angus M Robinson Bruce Leaver, Suzanne Miller, Bernie Joyce, Patricia Erfurt-Cooper and Vicki Powell			
	1830 - 2300	CONVENTION DINNER - FORT SCRATCHLEY & CIVIC THEATRE					

DETAILED PROGRAM

THURSDAY 10 JULY

KEY:		PLENARY 4 - Civic Auditorium					
Plenary speaker		Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
0815 – 0915	Developing understanding about Australia's past, present and future from research into the World Heritage fossil deposits of Riversleigh Mike Archer	04EVA ENVIRONMENT <i>Coal Seam Gas And Groundwater</i>	04EGA ENERGY <i>Coal – Advances In The Multiple Facets Of Coal Geosciences</i>	04ISCA INFRASTRUCTURE, SERVICE & COMMUNITY <i>Geological Challenges On Major Engineering / Infrastructure Projects</i>	04REA RESOURCES <i>Geomicrobiology: the Nexus Between Geoengineering and Biotechnology</i>	04DPA DYNAMIC PLANET <i>Precambrian Geochronology</i>	04LEA LIVING EARTH <i>Advances In Geochronology - Shedding New Light On Earth Surface Processes And The Quaternary Environment</i>
0930 - 0950	The use of simple hydrochemical indicators to identify CSG groundwaters and delineate groundwater flow paths within and between aquifers Daniel Des Owen	A new look at an old fuel: Advanced technologies for evaluating mineral matter in coal Colin Ward	The use of multiple hypotheses and geological thinking in identifying and addressing geological problems on engineering projects John Braybrooke	From little things big things grow - what about gold nuggets? Frank Reith	Alec Trendall: an appreciation Ian Tyler	Reliable Earth-surface temperatures Allan Chivas	
0950 - 1010	Developing an improved monitoring approach for springs potential impacted by coal seam gas development in the Surat cumulative management area, Queensland Jon Fawcett				Growing ancient Australia: Hafnium and neodymium isotope constraints from the Yilgarn and Pilbara Cratons Tony Kemp	04LEB LIVING EARTH <i>Recent Advances In The Evolution Of Life Through The Archean</i>	
1010 – 1030	Hydrochemical characterisation of interconnectivity between Walloon Coal Measures and major aquifers in the Surat CMA Dhananjay Singh	The Application of using the HyLogger hyper-spectral data for a chemostratigraphy framework of the Rangal and Fort Cooper Coal Measures, Bowen Basin Rhiannon Lord	04ISCB INFRASTRUCTURE, SERVICE & COMMUNITY <i>Rock Art In Australia</i>	Characterisation of the microbial communities in two Bowen Basin coal mines, Queensland, Australia Maija Raudsepp	Smelly old lakes: facies dependence of extremely-depleted Neoproterozoic $^{13}C_{org}$ values David Flannery		
			Rock surface processes and mineralised coatings associated with rock art in northern Australia Andrew Gleadow		04LEC LIVING EARTH <i>General Contributions</i>	A thriving Proterozoic biosphere at the rise of atmospheric oxygen: evidence from the c. 2.3 Ga Turee Creek Group, Western Australia Martin Van Kranendonk	

KEY:	1030 - 1100					
	MORNING TEA - Concert Hall & Banquet Room					
Plenary speaker	POSTER VIEWING - Banquet Room					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	04EVB ENVIRONMENT <i>Coal Seam Gas And Groundwater</i>	04EGB ENERGY <i>Coal – Advances In The Multiple Facets Of Coal Geosciences</i>	04ISCC INFRASTRUCTURE, SERVICE & COMMUNITY <i>Developing Geological Models For Engineering Projects</i>	04REB RESOURCES <i>Geomicrobiology: the Nexus Between Geoengineering and Biotechnology</i>	04DPB DYNAMIC PLANET <i>Precambrian Geochronology</i>	04LED LIVING EARTH <i>General Contribution</i>
Keynote speaker	1100 – 1120 Improving local hydrogeological understanding at springs; informing the future assessment of risks to springs in the Surat Basin, Queensland Steven Flook	Formation of furnace deposits during coal combustion: production of synthetic magmas during coal utilisation Robert Creelman	Developing geological models for engineering projects Tim Sullivan	Biodegradation of thiocyanate by Burkholderia at neutral PH Hong Phuc Vu	Rapid Mesoproterozoic cooling and transpressional exhumation in the western Albany-Fraser Orogen, Western Australia Elisabeth Scibiorski	The nature and geological setting of the Red Crust - a widespread Lower Cambrian (Series 2) ferrimicrobialite horizon, west-central Flinders Ranges, South Australia Nick Langsford
	Invited speaker	1120 – 1140 The role of the Office of Groundwater Impact Assessment in predicting and managing the impact of CSG water extraction in Queensland Sanjeev Pandey		The characterization of coal and coal utilization products using scanning electron microscopy image analysis David French	04REC RESOURCES <i>Geological Mapping: Its Power And Its Future</i>	Formation and alteration history of detrital chromites from Jack Hills sediments, Western Australia Svetlana Tesselina
Poster session	1140 – 1200	Study of mineral matter in coal from the late Permian Bowen Basin by Qemscan and optical microscopy Sandra Rodrigues	04ISCD INFRASTRUCTURE, SERVICE & COMMUNITY <i>Rock Art In Australia</i>	The digital era in geology: how to make the most of it – from field work to databases, to finding new mineral deposits John Greenfield	Age constraints from the Rocky Cape Group: putting Tasmania on the Mesoproterozoic map Jacqueline Halpin	Similarities between several major extinctions and preservation of life: biomolecules to geomolecules: an interdisciplinary approach Kliti Grice
			Kimberley rock art paints - archaeological implications of geochemistry and mineralogy Jillian Huntley	The contribution of 'manual' and 'digital' geological mapping strategies in mine-scale structural analysis: an example from Hill End, NSW Colin Wilkins		

DETAILED PROGRAM

THURSDAY 10 JULY

KEY: Plenary speaker Keynote speaker Invited speaker Poster session

1200 – 1220	Environmental tracer measurements along north-south transects in the Hutton Sandstone Axel Suckow	Detailed profiling of inorganic elements in coal seams using core scanning XRF techniques Colin Ward	Petroglyph monitoring on the Burrup Peninsula - Part 1 Tracey Markley	Towards automatic geological map legends: GSWA's explanatory notes reporting system Angela Riganti	U-Pb systematics of zircon from the Acraman impact structure Eric Tohver	
1220 – 1320	LUNCH - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet Room					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	04EVC ENVIRONMENT <i>Coal Seam Gas And Groundwater</i>	04EGC ENERGY <i>Coal Seam Gas – Insights Into A Rapidly Expanding Resource And Industry</i>	04ISCE INFRASTRUCTURE, SERVICE & COMMUNITY <i>Rock Art In Australia</i>	04RED RESOURCES <i>Geological Mapping: Its Power And Its Future</i>	04DPC DYNAMIC PLANET <i>Plate Kinematics And Dynamics</i>	04LEE LIVING EARTH <i>General Contribution</i>
1320 – 1340	Hydrochemical and isotopic fingerprinting of the Walloon Coal Measures and adjacent aquifers in the Clarence-Moreton and eastern Surat basins in southeast Queensland Matthias Raiber	Populating the container-approaches to characterising the Walloon Subgroup and their coal measures in the Surat Basin Joan Esterle	The weathering history of the petroglyphs of the Murujuga (Burrup) Peninsula in Western Australia Erick Ramanaidou	The importance of regolith mapping and regolith science for understanding South Australia's geology from cover to bedrock - the way forward Carmen Krapf	Are subduction zones inherently weak? Joao Duarte	An Antipodean Palaeospondylus? Carole Burrow
1340 – 1400	04EVD ENVIRONMENT <i>General Contributions</i>		04ISCF INFRASTRUCTURE, SERVICE & COMMUNITY <i>Geoscience Education: The Evolving Role Of Geoscience Outreach And Education</i>	Tectonic geomorphology mapping and analysis of the Lower Darling Valley and Northern Murray Basin, N.S.W.: new insights into hydrological and palaeo-hydrological processes, with implications for exploration sampling strategies Ken Lawrie	Quantifying the energy dissipation of overriding plate deformation in three-dimensional subduction models Zhihao Chen	The utility of survivor taxa for microvertebrate biostratigraphy and chemostratigraphy in Devonian and Carboniferous sections, Canning Basin Western Australia Kate Trinajstic
	Rare earth and other element patterns in the soils of Cyprus David Cohen		The Mars Lab - a context for Earth Sciences education Craig Browne			

DETAILED PROGRAM

THURSDAY 10 JULY

KEY: **Plenary speaker** **Keynote speaker** **Invited speaker** **Poster session**

1400 – 1420	04EVE ENVIRONMENT <i>Understanding Australia's Coastal Environment</i>	Estimation of volumetric fraction of coal in the stack of coal seams from seismic anisotropy parameters: Feasibility study Roman Pevzner	Landscapes around Canberra - a focus for geoscience education Douglas Finlayson	Regional AEM surveys benefit mineral exploration, geological mapping and groundwater resource management Ian Roach	Early Cenozoic Australian plate motion changes linked to New Guinea subduction zone Wouter Schellart	04LEF LIVING EARTH <i>The Australian Neogene: Prelude To The Present</i>
	Conceptual and actual changes of coastal dunes due to sea level and climate change Patrick Hesp	Differential wettability to CO ₂ for sub-bituminous and bituminous coals: effect on CO ₂ storage and migration in coal Kaydy Pinetown	Improving student engagement in the Earth Sciences using Minecraft Steven McClean	Evaluation of digital field mapping tools -the future is here Stuart Smith	Reconstructing ancient ocean basins and evolving plate boundary configurations - a key to understanding solid Earth evolution Dietmar Müller	Early Pliocene aridity and Neogene landscape evolution recorded by a fluvial sediment system (Campaspe Formation) north Queensland Robert Henderson
1420 – 1440						A fluvial approach to constraining Neogene surface uplift in south Western Australia Nicolas Barnett-Moore
1440 – 1510	AFTERNOON TEA - Concert Hall & Banquet Room					
	POSTER VIEWING - Banquet Room					
	Cummings Room	Mulubinba Room	Newcastle Room	Hunter Room	Civic Auditorium	Civic Playhouse
	04EVF ENVIRONMENT <i>Understanding Australia's Coastal Environment</i> Chair: James Goff &	04EGD ENERGY <i>Coal Seam Gas – Insights Into A Rapidly Expanding Resource And Industry</i>	04ISCG INFRASTRUCTURE, SERVICE & COMMUNITY <i>Geoscience Education: The Evolving Role Of Geoscience Outreach And Education</i>	04REE RESOURCES <i>Tectonics And Metallogeny In The Late Archaean</i>	04DPD DYNAMIC PLANET <i>Archaean & Proterozoic Gondwana</i>	04LEG LIVING EARTH <i>General Contributions</i>
1510 – 1530	The comprehensive Australian tsunami database - just when you thought it was safe to go back in the water James Goff	Sensitivity of reservoir parameters to coal type and rank, examples from Permian age coal, Bowen Basin, Australia Anastasia Dmyterko	The inaugural Australian earth and environmental science Olympiad: an Australian science innovations initiative Greg McNamara	Formation of horizontally layered Archean crust: examples from the Pilbara, Kaapvaal, and Yilgarn Cratons Martin Van Kranendonk	When did the WAC whack the NAC? Docking of the West and North Australian cratons David Maidment	Miocene basalt, tectonics, and evolution of Murrumbidgee River drainage of the Burrinjuck-Jugiong area, southern NSW highlands Max Brown

DETAILED PROGRAM

THURSDAY 10 JULY

KEY: Plenary speaker	1530 – 1550	Estimating the inundation limits of small historical tsunamis Karina Judd	04EGE ENERGY <i>Petroleum Reservoir Characterisation And Modelling – Towards Booking Accurate Reserves</i>	Immersive digital visualisation of geological exposures - a vision for a digital atlas of Australian geology Michael Roach		A mesoarchaeen terrane boundary in the southern pilbara craton? Ashlie Coates	Cemented in time: formation of the 20,000 year old Willandra fossil trackway Ian Graham
			Next generation modelling of rift basins and continental margins Dietmar Müller				
Keynote speaker	1550 – 1610	Holocene record of long- and short-term environmental changes in a coastal wetland, New Zealand Catherine Chague-Goff	Coal contribution to oil and gas accumulations in the Bonaparte and Gippsland Basin: new insights from molecular and bulk kinetic data Soumaya Abbassi	Geoscience education for a changing world: the ESWA example Joanne Watkins	Archean and esites in the East Yilgarn Large Igneous Province, Australia: the case for their origin by plume/crust interaction Steve Barnes	Sedimentation synchronous with ~ 1590 Ma felsic and mafic volcanism in the Gawler Range Volcanics at Roopena, NE Eyre Peninsula, South Australia Stacey McAvaney	Palyno-assemblages indicative of sclerophyllous and xeromorphic plant communities in the Late Eocene of southern Western Australia Charlotte Mack
Invited speaker	1610 – 1630	The 'Lake Mannum' Muds: a lacustrine origin for the lower Murray River gorge's uppermost valley fill Tom Hubble	Facies architecture of a dryland river convex bar, Umbum Creek, Lake Eyre, Central Australia Carmen Krapf	Petroglyph Monitoring on the Burrup Peninsula - Part 2 Deborah Lau	Zircon multi-isotopic mapping-a potentially robust pathfinder to large-scale targeting for gold mineral systems Yong-jun Lu	Basin formation by orogenic collapse: zircon U-Pb-Hf isotope evidence from the Kimberley and Speewah Groups, northern Australia Julie Hollis	Rare earth element, Sr/Ca, and Mg/Ca ratios in larger benthic foraminifers from Heron Reef, Great Barrier Reef Gregory Webb
Poster session	1630 – 1730	POSTER VIEWING & DRINKS - Banquet Room (Cash bar for beverages)					