

**Australian Earth Sciences Convention 2016
Program**

Plenary Session	Symposium	Keynote Speaker	Poster Session
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Sunday 26 June 2016	
9:00am - 12:00pm	GSA Governing Council Meeting (2014 - 2016 Councillors) - Riverbank Rm 5
1:00pm - 4:00pm	Open General Congress - Riverbank Rm 5
3:00pm - 6:00pm	Registration Open - Foyer F, Adelaide Convention Centre
6:00pm - 8:00pm	Icebreaker, SA Museum

Monday 27 June 2016	
7:00am - 5:00pm	Registration Open - Foyer F
8:30am - 9:00am	Official Opening - Hall L

9:00am - 10:00am	Ken McClay (Department of Earth Sciences, Royal Holloway University of London, UK) - <i>Thick and thin-skinned contraction - Inversion in orogenic systems</i> - Hall L Chair: Barry Goldstein (Department of State Development, South Australia)							
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Theme	Earth Science for Energy	Tectonics of the Planet	Tectonics of the Planet	Geoscience and Society	Earth's Environment - Past to Present	Deep Earth Geodynamics	Groundwater	Olympic Dam Symposium
Sub Theme	Shale Gas/Oil	Tectonics of the Tasmanides	Thermochronology of the Continental Crust	Recent Advances in geotourism in Australia and Beyond	Scientific Results of the International Ocean Discovery Program (IODP)	Linking Plate Tectonics and Mantle Convection to Surface Processes	Groundwater	
Session Chair	Dave Dewhurst and Sandy Menpes	Gideon Rosenbaum	Andy Gleadow	Angus M Robinson	Richard Arculus	Nicolas Flament and Karol Czarnota	Narelle Neumann	Kathy Ehrig
Room	Riverbank Room 7	Hall M	Riverbank Room 6	City Room 1	City Room 2	City Room 3	Riverbank Room 8	Hall L
10:10am - 10:30am	Stephanie Tyiasning <i>Impact of pore pressure versus fluid saturation on elastic properties in Murteree Shale of the Cooper Basin</i>	Anthony Schofield <i>Geochemical constraints on the evolution and setting of the Cambrian Stavelly Arc, western Victoria</i>	Brent McInnes (Keynote) <i>U-Th-Pb-He geochronology: principles, techniques and applications in reconstructing the thermal history of the Earth's crust</i>	Patrick McKeever (Keynote) <i>UNESCO global geoparks</i>	Neville Exon (Keynote) <i>Australia and New Zealand in International Ocean Discovery Program (IODP) ocean drilling research</i>	Zheng-Xiang Li (Keynote) <i>Plume and superplumes: their formation, nature and geodynamic roles</i>	Adam Lewis (Keynote) <i>The Australian geoscience data cube: transforming our ability to map and monitor the land surface with petabytes of Earth observation data</i>	Kathy Ehrig <i>The Olympic Dam Fe-oxide Cu-U-Au-Ag deposit: 40 years since discovery</i>
10:30am - 10:50am	Hongyan Yu <i>Elastic properties of lacustrine hydrocarbon-bearing shale using core analysis data</i>	Chris Lewis <i>Age, duration and isotopic signature of the Cambrian Stavelly Arc, western Victoria - a zircon perspective</i>						Vadim Kamenetsky <i>The Olympic Dam Cu-U-Au-Ag ore deposit: towards a new genetic model</i>
10:50am - 11:15am	Morning Tea and Poster Viewing in the Exhibition - Halls F and G							
Theme	Earth Science for Energy	Tectonics of the Planet	Tectonics of the Planet	Geoscience and Society	Earth's Environment - Past to Present	Deep Earth Geodynamics	Groundwater	Olympic Dam Symposium
Sub Theme	Shale Gas/Oil	Tectonics of the Tasmanides	Thermochronology of the Continental Crust	Recent Advances in geotourism in Australia and Beyond	Scientific Results of the International Ocean Discovery Program (IODP)	Linking Plate Tectonics and Mantle Convection to Surface Processes	Groundwater	
Session Chair	Dave Dewhurst and Sandy Menpes	Gideon Rosenbaum	Stijn Glorie	Bernie Joyce and Angus M Robinson	Robert McKay	Nicolas Flament and Karol Czarnota	Ken Lawrie	Kathy Ehrig
Room	Riverbank Room 7	Hall M	Riverbank Room 6	City Room 1	City Room 2	City Room 3	Riverbank Room 8	Hall L
11:15am - 11:35am	Mohinudeen Faiz <i>Precambrian organic matter and thermal maturity of the Beetaloo Basin, Northern Territory, Australia</i>	Michael Bruce <i>A Neoproterozoic and Cambrian multi-stage evolution for the Coolac Serpentine, southeastern Lachlan Fold Belt, NSW</i>	Barry Kohn <i>Zircon radiation damage thermochronology: a case history from Tasmania</i>	Angus M Robinson <i>Geotourism, geotrails and geoparks - Pathways for future development in Australia</i>	Richard Arculus <i>Inception and evolution of the Izu-Bonin-Mariana arc: results from IODP expedition 351</i>	Stephen Gallagher <i>10 million years of subsidence on the northwest shelf of Australia: initial results from International Ocean Discovery Program Expedition 356</i>	Steven Lewis (Keynote) <i>BA foundations rock! How geoscience underpins the bioregional assessments</i>	Joclyn McPhie <i>Characteristics, origin and significance of Mesoproterozoic bedded clastic facies at the Olympic Dam Cu-U-Au-Ag deposit, South Australia</i>
11:35am - 11:55am	Dave Dewhurst <i>Diagenesis and rock properties in Canning Basin shales</i>	Michael Doubler <i>Tectono-metamorphic evolution of the southern Thomson Orogen: new evidence from a multi-disciplinary study</i>	Qingyang Li <i>Three-dimensional measurement of semi-track lengths in apatite fission-track analysis</i>	Ian Clark <i>Outback geotourism in South Australia: a bridge between the rocks and a dry place</i>	Bob Musgrave <i>Fluids, faults and foliation at the Izu rear-arc - their rock magnetic signal</i>	Karol Czarnota <i>Towards constraining amplitude, wavelength and rate of Australia's dynamic topography</i>		Alex Cherry <i>Sedimentary facies within the Olympic Dam Breccia Complex: a potential metal source</i>
11:55am - 12:15pm	Munther Alshakhs <i>TOC estimation of the Goldwyer Formation in the Canning Basin, Barrow Terrace case study</i>	David Purdy <i>Insights to the geologic evolution of the Thomson Orogen and nature of the deeper crust from isotopic studies of magmatic and inherited zircons</i>	Vhairs Mackintosh <i>Phanerozoic evolution of Zimbabwe: insights from low-temperature thermochronology</i>	Alan Briggs <i>Geotourism in Western Australia</i>	Kelsie Dadd <i>Seamount volcanism at Site U1431, South China Sea, International Ocean Discovery Program Expedition 349</i>	Dietmar Muller <i>Influence of dynamic topography on the evolution of the Australian landscape since the Late Jurassic</i>	Andrew Moser (Keynote) <i>CSG in the GAB - changing our understanding of basin hydrodynamics</i>	Qiyue Huang <i>Petrology, geochemistry and geochronology of mafic lithologies at the Olympic Dam iron oxide Cu-U-Au-Ag deposit: implications for tectonic settings and oreforming process</i>
12:15pm - 12:35pm		Kathryn Waltenberg <i>Exploring the nature of the Thomson - Lachlan boundary through zircon Lu-Hf and O isotopes</i>	Song Lu <i>Thermotectonic evolution of the Archean Yilgarn craton, Western Australia: insights into Gondwana amalgamation and breakup</i>	Edmund Joyce <i>Using local geotrails to connect small volcanic geosites and provide new opportunities for geotourism - examples from the Kanawinka Geopark in the Newer Volcanic Province of south eastern Australia</i>	Sean Johnson <i>The biological and chemical evolution of the Baltic Sea Basin reflected in changing sulphide geochemistry. Initial results from IODP Exp. 347</i>	Sabin Zahirovic <i>Coupled plate tectonic reconstructions and mantle convection models of the eastern Tethys</i>		Jesse Clark <i>Unravelling the giant: evidence for post-mineralisation modification of the Olympic Dam Cu-Au-U-Ag deposit, Gawler Craton, South Australia</i>
12:35pm - 1:35pm	Lunch and Poster Viewing in the Exhibition - Halls F and G			Town Hall Meeting / Decadel Plan Update and Input, National Committee for Earth Sciences, Australian Academy of Science - Hall L			Geoheritage Standing Committee - Room L1b	

Theme	Mineral Endowment	Tectonics of the Planet	Tectonics of the Planet	Geoscience and Society	Earth's Environment - Past to Present	Deep Earth Geodynamics	Groundwater	Olympic Dam Symposium
Sub Theme	Non-traditional Isotopes in High- and Low-temperature	Tectonics of the Tasmanides	Thermochronology of the Continental Crust	Recent Advances in Geotourism in Australia and Beyond?	Scientific Results of the International Ocean Discovery Program (IODP)	Linking Plate Tectonics and Mantle Convection to Surface Processes	Groundwater	
Session Chair	Juraj Farkas and John Foden	Bill Collins	Brent McInnes	Bernie Joyce and Angus M Robinson	Kelsie Dadd	Juan Afonso, Louis Moresi	Steven Lewis	Kathy Ehrig
Room	Riverbank Room 7	Hall M	Riverbank Room 6	City Room 1	City Room 2	City Room 3	Riverbank Room 8	Hall L
1:35pm - 1:55pm	Yulia Uvarova <i>Non-traditional isotopes applied to mineral exploration and grade estimation</i>	Ross Cayley (Keynote) <i>The Silurian Lachlan Orogen: a geodynamic template for reinterpreting a reworked Adelaide Fold Belt (Flinders Ranges and Nackara 'Arc' included), Curnamona Craton rotation and translation, and Centralian Superbasin (and others) evolution</i>	Stijn Glorie <i>Late Proterozoic - Phanerozoic intracontinental reactivation and differential exhumation of the eastern Musgrave Province: insights from low-temperature thermochronology</i>	Alan Briggs <i>Determining stakeholder perceptions for geotrails, geotourism and geoparks in the wheatbelt of Western Australia</i>	Brad Clement (Keynote) <i>The International Ocean Discovery Program (IODP): JOIDES resolution operations in the Indian Ocean (2014-2016)</i>	Alan Collins <i>Full plate topological reconstruction of Gondwana amalgamation</i>	Tim Evans <i>Unravelling the enigmatic Galilee Basin, insights from geological modelling for the Galilee bioregional assessment</i>	Alkiviadis Kontonikas-Charos <i>Remobilisation of REE, Y and U during feldspar replacement reactions in IOCG systems: examples from the Olympic Cu-Au Province, South Australia</i>
1:55pm - 2:15pm	Andrew Friedrich <i>New pathways for isotopic fractionation during iron redox cycling</i>		James Hall <i>Low-temperature thermal histories of the northern and eastern Gawler Craton</i>	Angus M Robinson <i>The Blue Mountains and Jenolan Caves geotourism Revival</i>		Nicolas Flament <i>Predicting lower mantle heterogeneity from 4-D Earth models</i>	Tim Evans <i>Characterising the regional hydrogeology of the Galilee Basin and its relationship with aquifers in the Great Artesian Basin (Eromanga Basin)</i>	Sasha Krneta <i>REY-signatures in apatite monitor the evolution of IOCG systems: examples from Olympic Dam and Acropolis, South Australia</i>
2:15pm - 2:35pm	John Foden <i>Globally light Fe-isotopic composition of oceanic arc basalts implies highly depleted mantle wedge compositions: Is oceanic subduction initiated against low density, refractory, peridotite zones in the upper mantle?</i>	Robert Musgrave <i>The Macquarie Arc: What is it, and where did it come from? A geophysical perspective</i>	Scott Bryan <i>Apatite and zircon (U-Th)/He thermochronology of the Drummond Basin: insights into the thermal history of the northern New England Orogen</i>	Tao Xu <i>Twenty-four development models of geotourism</i>	Stephen Gallagher <i>International Ocean Discovery Program Expedition 356: a Miocene-Pliocene record of reefs, oceans and climate off northwest Australia</i>	Alexander Cruden <i>Three-dimensional subsidence history of the Michigan basin: long-term interplay between mantle dynamics and plate boundary forces</i>	Matthias Raiber <i>Integrated geological, hydrogeological and groundwater modelling assessment of potential impacts of coal seam gas activities: an example from the Clarence-Moreton bioregion</i>	Olga Apukhtina <i>Distribution, petrology, geochemistry and geochronology of carbonate assemblages at the Olympic Dam deposit</i>
2:35pm - 2:55pm	Wei Hong <i>Volatile exsolution in felsic magmas: evidence from boron, oxygen and strontium isotopic analyses of tourmalines from western Tasmanian granites</i>	Paul Lennox <i>Transect from Walcha to Yarras in search of the Manning Orogen, NSW</i>	Andy Gleadow <i>Low temperature thermochronology of the Turkana Depression and dynamic topography of the East African Rift System</i>	Young Ng <i>Tourism earth science: an emerging discipline generating new opportunities for earth scientists</i>	Chelsie Korpanty <i>Ecological assessment of a late Miocene coral assemblage near Rowley Shoals, Roebuck Basin, Western Australia</i>	Derrick Hasterok <i>Vertical heat production distributions: global and Australian perspectives from geochemical databases and thermal isostasy</i>	Chris Turnadge <i>Use of the elementary effects approach to undertake global prediction sensitivity analyses using a regional scale numerical groundwater flow model</i>	Edeltraud Macmillan <i>The evolution of uraninite, coffinite and brannerite at the Olympic Dam IOCG-U-Ag deposit - linking textural observations to compositional variability</i>
2:55pm - 3:25pm	Afternoon Tea and Poster Viewing in the Exhibition - Halls F and G							
Theme	Mineral Endowment	Tectonics of the Planet	Tectonics of the Planet	Earth Science for Energy	Earth's Environment - Past to Present	Deep Earth Geodynamics	Groundwater	Olympic Dam Symposium
Sub Theme	Non-traditional Isotopes in High- and Low-temperature	Tectonics of the Tasmanides	Thermochronology of the Continental Crust	Reservoir Analogues	Scientific Results of the International Ocean Discovery Program (IODP)	From Resistivity to Geology	Groundwater	
Session Chair	Juraj Farkas and John Foden	Ross Cayley	Barry Kohn	Kathryn Amos	Jamie Austin	Graham Heinson	Ross Brodie	Kathy Ehrig
Room	Riverbank Room 7	Hall M	Riverbank Room 6	City Room 1	City Room 2	City Room 3	Riverbank Room 8	Hall L
3:25pm - 3:45pm	Zhu Zhiyong <i>Iron isotope behaviour during mineralization and K-feldspar alteration: a case study of two types of gold deposits from the Jiaodong Peninsula, East China</i>	Derek Hoy <i>Re-assessing the Hunter-Bowen Orogeny: insights from Gympie Terrane deformation</i>	Ling Chung <i>Post-Gondwana thermo-tectonic evolution of Tasmania and the South Tasman Rise</i>	Judith Travers <i>Improving the Durham Downs Gas Field three dimensional Earth model by integrating regional data, image log data and seismic waveform classification</i>	Rob McKay <i>Scientific drilling opportunities in the SW Pacific and Antarctica with the International Ocean Discovery Program</i>	Kate Robertson <i>Structure and dynamics of the Curnamona Province and Flinders Ranges from the Australian Lithospheric Architecture Magnetotelluric Project (AusLAMP)</i>	Tim Ransley <i>The Great Artesian Basin - mapping the basin architecture and variations in water chemistry</i>	Cristiana Ciobanu <i>Towards a suitable natural standard for routine U-Pb dating of iron oxides</i>
3:45pm - 4:05pm		Bruce Runnegar <i>Palaeobiogeographic test of hypotheses for the formation of coupled oroclines in the central New England Orogen, eastern Australia?</i>	Eric Tohver <i>Thermochronological constraints on the Karoo Basin: evidence for regional reheating during emplacement of a Large Igneous Province from ⁴⁰Ar/³⁹Ar, U-Th-He and paleomagnetic analysis</i>	Sara Moran Polanco <i>Investigating causes of river avulsion: a case study from the Magdalena River, Colombia: insights for fluvial petroleum reservoirs</i>	Cornel de Ronde <i>Gateway to the sub-arc mantle through the Brothers volcano: volatile flux, metal transport, and conditions for early life</i>	Stephan Thiel <i>Mantle fertility and mineral systems: insights from AusLAMP across the Gawler Craton</i>	Axel Suckow <i>A multi-tracer study reveals the Hutton Sandstone aquifer as a double porosity system</i>	3.45pm - 4.00pm William Keyser <i>BiF-style iron deposits of the Middleback Ranges, South Australia: trace element signatures of Fe-oxides and implications for ore formation</i>
4:05pm - 4:25pm		Abbas Babaahmadi <i>Triassic thrusting in the eastern central Bowen Basin, Queensland</i>	Guangwei Li <i>Burial and exhumation of the Xigaze forearc basin, south Tibet, implications for the process of India-Asia collision</i>	John Counts <i>Sedimentology and salt-sediment interaction in a clastic fluvial-deltaic system from the Adelaide Rift Complex of South Australia</i>	Saneatsu Saito <i>Geophysical framework of the Lord Howe Rise: characterisation of candidate International Ocean Discovery Program (IODP) deep drilling sites</i>	Karol Czarnota <i>Illuminating Victoria's lithospheric structure - AusLAMP Victoria</i>	Mark Keppel <i>A hydrochemical characterisation of aquifers and springs near Lake Blanche, Lake Eyre Basin, South Australia</i>	4.00pm - 4.15pm Matt Ferguson <i>Iron and REE-bearing mineral assemblages in the rocks hosting the Olympic Dam and Wirrda Well IOCG deposits</i>
4:25pm - 4:45pm			Gilby Jepson <i>A thermochronological transect through the western Tian Shan (Uzbekistan and Tajikistan)</i>	Melissa Craig <i>Experimental analogue study - How does organic matter affect the head velocity and run-out distance of cohesive sediment gravity flows?</i>		Paul Soeffky <i>The electrical resistivity of the Australian lower crust</i>	Matthias Raiber <i>The need for integration of 'everything': an example from the Condamine River catchment on how consideration of multiple lines of evidence benefits conceptual hydrogeological model development</i>	4.15pm - 4.30pm Nathan Chapman <i>The Pb-isotopes of Olympic Dam and beyond - The uranium story of the Gawler Craton</i>
4:45pm - 5:45pm	Poster Viewing and Drinks in the Exhibition - Halls F and G							
4:45pm - 5:45pm	Mawson Lecture presented by Colin Murray-Wallace, From amino acids to changing sea levels and the movements of continents - Hall L							
5:45pm - 6:45pm	Specialist Group in Tectonics & Structural Geology - City Room 1							
7:00pm - 9:00pm	Nuclear Energy Public Forum - Hall L							

Tuesday 28 June 2016									
8:00am - 5:00pm	Registration Open - Foyer F								
8:45am - 9:45am	Sandy Steacy (University of Adelaide, Australia) - Forecasting of tectonic and induced earthquakes - Hall L Chair: Steve Hill (Department of State Development, South Australia)								
Theme	Mineral Endowment	Tectonics of the Planet	Tectonics of the Planet	Tectonics of the Planet	Deep Earth Geodynamics	Groundwater	Earth's Environment - Past to Present	Earth's Environment - Past to Present	AuScope 10 Year Anniversary Symposium
Sub Theme	New Technologies in Mineral Exploration	Proterozoic orogens welding the West, North and South Australian cratons	Tectonics of the Tasmanides	Gondwana to Asia	From Resistivity to Geology	Groundwater	Biosignatures, Biomarkers and Biogeochemistry	Scientific Results of the International Ocean Discovery Program (IODP)	Temporal Architecture - Research into the evolution and geometry of the Australian Plate
Session Chair	David Giles	Chris Kirkland	Peter Betts	Stijn Glorie	Graham Heinson	Narelle Neumann	Jon Tyler	Gilbert Camoin	Christian Sippel
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	Riverbank Room 5	Riverbank Room 7	Riverbank Room 8	City Room 3
9:55am - 10:15am	Gary Colquhoun Seamless geology of New South Wales	Bill Collins (Keynote) How many times did Proterozoic Australia disperse and re-assemble?	Gideon Rosenbaum Geodynamics of the Tasmanides: accretion vs. bending	Jonathan Aitchison (Keynote) Myanmar microplate: a passage to India via the road less travelled	Alison Kirkby Imaging fracture permeability using magnetotellurics	Ken Lawrie (Keynote) Neotectonic controls on Australia's surface and groundwater systems	Nick Langsford Sponges as environmental indicators in the Red Crust ferrimicrobialite horizon, Flinders Ranges, South Australia	Adriana Dutkiewicz Controls on the global distribution of seafloor sediments: implications for the interpretation of the deep-sea sedimentary record	Brian Kennet AuSREM and beyond: insights into the Australian lithosphere
10:15am - 10:35am	Sandra Occhipinti Translating mineral systems analyses into a sensible workflow for ground selection and targeting		Robert Henderson Tabberabberan extended: middle to late Devonian contraction in the eastern Tasmanides		Janelle Simpson Modelling the Georgina and Eromanga Basins from magnetotelluric data, Boulia, Queensland		Thomas Robson Sulfur-accumulating plants: fixing soluble sulfur as recalcitrant biominerals	Irina Borissova Expedition 369 off southwest Australia: Cretaceous tectonic and climatic history of the Naturaliste Plateau and the Mentelle Basin	Lucia Plank Across Australia and around the world in millimetres
10:35am-11:00am	Morning Tea and Poster Viewing in the Exhibition - Halls F and G								
Theme	Mineral Endowment	Tectonics of the Planet	Tectonics of the Planet	Tectonics of the Planet	Mineral Endowment	Groundwater	Earth's Environment - Past to Present	Earth's Environment - Past to Present	AuScope 10 Year Anniversary Symposium
Sub Theme	New Technologies in Mineral Exploration	Proterozoic orogens welding the West, North and South Australian cratons	Supercontinent Cycles and Global Geodynamics	Gondwana to Asia	Deposit to Camp Scale Ore Systems	Groundwater	Biosignatures, Biomarkers and Biogeochemistry	Scientific Results of the International Ocean Discovery Program (IODP)	Temporal Architecture - Research into the evolution and geometry of the Australian Plate
Session Chair	Caroline Forbes	Hugh Smithies	Grant Cox	Tom Raimondo	Zhaoshan Chang	Tim Ransley	Jon Tyler	Neville Exon	Lucia Plank
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	Riverbank Room 5	Riverbank Room 7	Riverbank Room 8	City Room 3
11:00am - 11:20am	Tim Munday Uncovering the depths in minerals exploration - advancing geophysics is a critical element to this goal	Catherine Spaggiari (Keynote) Still oceans apart – probing the Eucla basement shows what separates the Albany-Fraser Orogen and the Gawler Craton	Peter Betts Nuna: an Australian perspective	Nicholas Gardiner What lies beneath: secrets of Myanmar's Tethyan margin	Vladimir Lisitsin Carboniferous orogenic gold deposits in the Hodgkinson Province, Queensland, Australia - genesis constraints from new geochronology, stable isotope geochemistry and fluid inclusion data	Ross Brodie (Keynote) Developing and testing hydrogeological conceptual models - Some key learnings from the Broken Hill Managed Aquifer Recharge (BHMAR) project	Jeffrey Steadman The geochemistry of marine pyrite in the 3.2 Ga Cleaverville Group black shales, Dixon Island, Western Australia: insights into the chemistry of the Mesoproterozoic ocean and atmosphere	James Austin (Keynote) International Ocean Discovery Program (IODP): the latest incarnation of almost five decades of scientific ocean drilling excellence	David Phillips Ultra-high precision 40Ar/39Ar geochronology of volcanic rocks by multi-collector mass spectrometry
11:20am - 11:40am	Matthias Klawitter Photogrammetry-assisted mapping of solution collapse breccia pipes, Colorado Plateau, U.S.A.		Sergei Pisarevsky 1800–900 Ma global paleogeography: new insights	Johan De Grave Evolution of the Meso-Cenozoic passive margin of southeastern India (Tamil Nadu) using apatite fission-track thermochronometry	Yanbo Cheng Geology and mineralization of the Mt Carbine Deposit, Northern QLD, Australia		Jake Andrae Variation in leaf wax n-alkane properties across a precipitation and temperature gradient		Pavel Golodunich Leveraging AuScope technology to define distal footprints of mineral ore systems
Sub Theme									Changes and Impacts - Research into the nature and state of the Australian region
Session Chair									Lucia Plank
11:40am - 12:00pm	David Giles Data from the Deep: the critical dependence of deep exploration on deep sampling and other statements of the obvious	Christian Sippel Crustal and uppermost mantle structure of the Albany-Fraser Orogen from passive seismic data	Ross Mitchell An explanation of ultrahigh-pressure metamorphism	David Kelsey Regional significance of late metamorphic reaction microstructures at Anakapalle in the ultrahigh temperature Eastern Ghats Province, India	Jaime Poblete The Watershed tungsten deposit (NE Queensland, Australia): scheelite vein mineralization, alteration and mineral chemistry	Ken Lawrie for John Magee Neotectonic controls on landscape and drainage morphology and evolution in the western Murray Basin: novel tectonic geomorphology mapping	Allan Chivas Direct temperature estimates of glendonite formation and transformation	Gilbert Camoin European Consortium for Ocean Research Drilling (ECORD) in the International Ocean Discovery Program (IODP) : new opportunities in scientific drilling	John Dickey for Jim Lovell The challenges in building a continent-wide VLBI array
12:00pm - 12:20pm	Soren Soe New drilling technologies in mineral exploration productivity	Laura Morrissey The Windmill Islands, east Antarctica: a window into the poorly exposed margin of the Albany-Fraser Orogen	Zheng-Xiang Li Supercontinent- superplume coupling in Earth history: toward a new tectonic paradigm	Wenzhu Hou LA- ICP-MS U-Pb zircon ages of the Carboniferous volcanic and sedimentary rocks of the Songliao block, NE China: implications for the tectonic evolution of the eastern segment of the Central Asia Orogenic Belt	Matt McGloin The origins of Paleoproterozoic tungsten (and copper) mineralisation in the eastern Aileron Province, Arunta Region, central Australia	Ken Lawrie Fault zone hydrogeology in near-surface depositional landscapes: an inter-disciplinary approach		Nadine Hallmann The Mission-Specific Platform (MSP) concept: a new dimension in scientific ocean drilling	Mick Filmer Surface displacements from InSAR in the Perth Basin, Western Australia
12:20pm - 1:20pm	Lunch and Poster Viewing in the Exhibition - Halls F and G - Sponsored by Geoscience Australia				AJES Editorial Meeting - Room L1b				

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Sub Theme	New Technologies in Mineral Exploration	Proterozoic orogens welding the West, North and South Australian cratons	Supercontinent Cycles and Global Geodynamics	Gondwana to Asia	Deposit to Camp Scale Ore Systems	Groundwater	Australasia's Petroleum Systems		Changes and Impacts - Research into the nature and state of the Australian region
Session Chair	Yulia Uvarova	Laura Morrissey	Ross Mitchell	Johan De Grave	Vladimir Lisitsin	Prachi Dixon-Jain	Simon Holford		Christian Sippl
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	Riverbank Room 5	Riverbank Room 7	Riverbank Room 8	City Room 3
1:20pm - 1:40pm	Heike Eberndorff-Heidepriem <i>Gold sensing at ppb level with the optical methods</i>	Chris Kirkland <i>The birth of a Proterozoic ocean: isotopic backtracking the WAC and the SAC</i>	Nan Zhang <i>Long-wavelength mantle structure and supercontinent evolution since the Palaeozoic</i>	Jack Gillespie <i>Mesozoic to Cenozoic uplift and exhumation of the for Eastern Tianshan</i>	Michael Gazley <i>Redox gradients, and ore footprints: mineralogical variability and geochemical insights into the Cloncurry District mineral system</i>	Michael Friedel (Keynote) <i>Smart aquifer characterization and mapping with machine-learning and evolutionary techniques</i>	Chris Elders <i>Basin evolution in the Carnarvon and Perth Basins - implications for petroleum systems</i>		Jan Huntington <i>The National Virtual Core Library - Unique multifaceted national infrastructure</i>
1:40pm - 2:00pm	Steven Tassios <i>Analysis of geological samples using Laser-Induced Breakdown Spectroscopy (LIBS)</i>	Rian Dutch <i>Is Southern Australia bent? Recognition of a contiguous Palaeoproterozoic magmatic arc along the western margin of the Mawson Continent</i>	Rakib Hassan <i>Deep controls on the morphology of surface volcanic hotspot tracks</i>	Jacqueline Wong <i>Sapphires, rubies, and the Wilson cycle</i>	Richard Lilly <i>Geochemical evolution of the mafic volcanic sequences in the Cloncurry District, Queensland: implications for crustal accretion and prospectivity</i>		Elinor Alexander <i>An overview of the petroleum systems of South Australian basins</i>		Dietmar Muller for John Cannon <i>Pygplates – a GPlates python library for data analysis through geological time and space</i>
Sub Theme									Science Enablers - Development and use of tools, software and data enabling world class research
Session Chair									Sabin Zahirovic
2:00pm - 2:20pm	Dane Burkett <i>Use of pXRD in the quantitative assessment of alteration in epithermal Au deposits</i>	David Kelsey <i>Mesoproterozoic metamorphism in the Rudall Province: revising the timeline of the Yapungku Orogeny and implications for cratonic Australia assembly</i>	Grant Cox <i>Reconstructing the record of Continental Flood Basalt (CFB) and Ocean Island Basalt (OIB) geochemistry: initial results from a data mining approach</i>	Christopher Todd <i>Reconstructing the tectonic history and palaeodrainage evolution of Mesozoic NE Australia</i>	Adrian Fabris <i>Regional to deposit scale geochemical and spectral footprints of the ~1.6 Ga thermal event in the eastern Gawler Craton - a case study from the Punt Hill region, South Australia</i>	Ross Brodie & Ken Lawrie <i>Groundwater system understanding, resource exploration and assessment in the 21 Century: inter-disciplinary systems science using advanced sensor technologies, and high performance computing in the era of 'Big Data'</i>	Richard Kempton <i>Petroleum migration in the Bight Basin: a fluid inclusion approach to constraining source, composition and timing</i>		Dietmar Muller <i>The GPlates Portal: cloud-based interactive 3D visualization of global geophysical and geological data in a web browser</i>
2:20pm - 2:40pm	Nathan Reid <i>Real time fluid chemistry: applications for drilling optimisation and early detection</i>	Hugh Smithies <i>Changing granite sources in the Mesoproterozoic evolution of the region separating the West, South and North Australian Cratons (the WAC, SAC and NAC)</i>	Weihua Yao <i>Hainan Island (south China) in the Nuna breakup and Rodina assembly</i>	Daniel Howlett <i>120 Myr of episodic mid-crustal metamorphism and fluid-rock interaction during the Alice Springs Orogeny: the Strangways Range, central Australia</i>	Cheng Lin Yang <i>Mineral chemistry mapping within an IOCG system, Olympic Cu-Au Province, South Australia</i>	Tim Munday <i>Working with the minerals industry in facilitating outback water solutions for remote parts of South Australia - The Goyder long-term outback water solutions (G-FLOWS) Eyre Peninsula project</i>	Jordan Mill <i>Sequence stratigraphic analysis of the Epsilon Formation, Merimelia Ridge, Cooper Basin - South Australia</i>	Working with the minerals industry in facilitating outback water solutions for remote parts of South Australia - The Goyder long-term outback water solutions (G-FLOWS) Eyre Peninsula project	Lesley Wyborn <i>Ten years of building high performance computational and data infrastructures to support the next generation of world class earth science research</i>
2:40pm - 3:10pm	Afternoon tea and Poster Viewing in the Exhibition - Halls F and G				2:30pm – 3:30pm Australian Stratigraphy Commission Meeting, Room L1b				
Theme	Mineral Endowment	Tectonics of the Planet	Tectonics of the Planet	Earth's Environment - Past to Present	Mineral Endowment	Geoscience and society	Earth Science for Energy		AuScope 10 Year Anniversary Symposium
Sub Theme	New Technologies in Mineral Exploration	Proterozoic orogens welding the West, North and South Australian cratons	Supercontinent Cycles and Global Geodynamics	Southern Hemisphere Quaternary	Deposit to Camp Scale Ore Systems	Communicating for Social Acceptance	Energy in 2050		Science Enablers - Development and use of tools, software and data enabling world class research
Session Chair	David Giles	Rian Dutch	Bill Collins	Sian Howard	Zhaoshan Chang	Melissa Muller	Tony Hill		Sabin Zahirovic
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	Riverbank Room 5	Riverbank Room 7	Riverbank Room 8	City Room 3
3:10pm - 3:30pm	June Hill <i>Tessellations - a new tool for interpreting numerical drill hole data</i>	Martin Hand (Keynote) <i>Extending metamorphic models for the development of Proterozoic Australia</i>	Dietmar Muller <i>The eastern Australian record of continental travel, dynamic topography and landscape evolution since Pangea breakup</i>	Helen Green <i>Uranium-series dating of bracketing mineral accretions associated with Kimberley rock art</i>	Matthew Paul <i>Balance of precious metals at the Paris silver deposit, South Australia</i>	Kieren Moffat <i>Are you talking my language?</i>	Peter McCabe <i>Will fossil fuels ever peak? The future global energy mix</i>		Lutz Gross <i>Esript - open-source tool for numerical modeling of Earth's processes</i>
3:30pm - 3:50pm	James Cleverley <i>Material classification in a connected world</i>		Uwe Kirscher <i>Evolution of the Central Asian Orogenic Belt in the Paleozoic - A subduction epicentre during the formation of Pangea</i>	Ingrid Ward <i>Early coastal occupation and maritime resource use on the continental shelf edge, North West Australia</i>	Wenyuan Gao <i>Speciation and nanoscale ordering in pyrrhotites: a case study from the Panzhihua deposit, SW China</i>	Steve McClare <i>Building durable relationships</i>	Marita Bradshaw <i>An Australian energy mix for the Anthropocene</i>		Brent McInnes <i>An eResearch system for sanaging and distributing publicly funded geochemical data in a collaborative environment</i>
Sub Theme									AuScope - Future directions
Session Chair									Tim Rawling
3:50pm - 4:10pm	Robert Hough (Keynote) <i>Detection of mineral system signatures through cover - a bigger picture</i>	David Kelsey <i>Ultrahigh temperature metamorphism: testing models for collision vs. extension for the c. 1640 Ma timeline, central Australia</i>	Mahbubul Ameen <i>Petrography and geochemistry of A-type granitoid and associated charnockite from the basement complex of Bangladesh</i>	Emily Field <i>Gaining new high-resolution palaeoclimate information from Australia's water-limited environments: dating the un-datable of cores</i>	Alistair White <i>Distinguishing local- and regional-scale metasomatic systems</i>	Klynton Wanganeen <i>Engaging with Aboriginal people</i>	Betina Bendall <i>Permeability enhancement in EGS Reservoirs - Experiences from the Australian geothermal industry</i>		Nicholas Gruen (Keynote) <i>Valuing AuScope's contribution to the Australian Economy</i>
4:10pm - 4:30pm		WingKei Lau <i>Geochemical and isotopic constraints on the origin of central Australian high heat producing granitic suites</i>			Diana Plavsá <i>Trace element geochemistry of TiO₂ polymorphs in igneous rocks: an example from the igneous Mooraie Supersuite, Capricorn Orogen, Western Australia</i>	Kieren Moffat, Steve McClare and Klynton Wanganeen <i>Panel - Q&A Session</i>	Richard Schintele <i>Micro-ablation and source rock analysis: a new technique for removing hydrocarbon contaminants and facilitating biomarker analyses of cuttings</i>		"Town Hall" style discussion. AuScope - Planning the next decade's investment in Australian Earth and geospatial research infrastructure
4:30pm - 5:30pm	Poster Viewing and Drinks in the Exhibition - Halls F and G								
5:45pm - 6:45pm	Student Hour - Riverbank Room Foyer (Outside Rooms 5 – 8)			GSA AGM - City Room 1					
7:00pm	AuScope Dinner - City Room 2 and 3								

Wednesday 29 June 2016

8:00am - 5:00pm	Registration Open, Foyer F							
8:45am - 9:45am	Richard Goldfarb (Colorado School of Mines, University of Geosciences, USA) - <i>Gold Deposits In Metamorphic Rocks: Why Are We Getting More Confused?</i> - Hall L Chair: Chris Pigram (Geoscience Australia)							
Theme	Mineral Endowment	Tectonics of the Planet	Tectonics of the Planet	Earth's Environment - Past to Present	Mineral Endowment	Groundwater	Geoscience and Society	UNCOVER Symposium
Sub Theme	Integrating Structure and Geochemistry	Proterozoic orogens welding the West, North and South Australian cratons	Volcanism: modern to ancient, plate edge to plate interior	Southern Hemisphere Quaternary	Hyperspectral Applications in Economic Geology	Groundwater	Geoheritage	
Session Chair	Steven Micklethwaite and Andrew Tomkins	Mark Pawley	Jessica Trofimovs	Georgina Falster	Belinda Smith	Ken Lawrie	Margaret Brocx and Vic Semeniuk	Steve Hill
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	Riverbank Room 5	City Room 3	Riverbank Room 7 and 8
9:55am - 10:15am	Brendan Duffy <i>Understanding the distribution and structural setting of mineralization from principle component analysis of portable X-ray fluorescence geochemistry: new insights from an old friend</i>	Anya Reading <i>An interdisciplinary approach to constructing models of the lithosphere across the Australia-Antarctica conjugate margin</i>	Ray Cas (Keynote) <i>The dynamics of a very large intra-plate continental basaltic volcanic province, the Newer Volcanics Province, South-eastern Australia and implications for other provinces</i>	Katharine Grant (Keynote) <i>A new chronology and probabilistic assessment of sea-level variability over five glacial cycles</i>	Alan Mauger (Keynote) <i>Alteration at the Olympic Dam IOCG-U Deposit – insights into distal to proximal feldspar chemistry from infrared reflectance spectroscopy</i>	Rick Evans (Keynote) <i>MAR and Northern Australia</i>	Vic Semeniuk (Keynote) <i>The "8Gs": a blueprint for geoheritage, geoconservation, geo-education and geotourism</i>	Phil McFadden <i>UNCOVER introduction and overview</i>
10:15am - 10:35am	Yanlu Xing <i>The role of fluorine in the formation of the giant Olympic Dam Iron Oxide-Cu-Au deposit</i>	Elisabeth Scibiorski <i>Titanite U-Pb geochronology: constraints on metamorphism and cooling of the eastern Albany-Fraser Orogen</i>					Noel Hiern <i>Geological Heritage in South Australia</i>	Robbie Rowe <i>UNCOVER - AMIRA Roadmap and future directions</i>
10:35am - 11:00am	Morning Tea and Poster Viewing in the Exhibition - Halls F and G							
Theme	Mineral Endowment	Tectonics of the Planet	Tectonics of the Planet	Earth's Environment - Past to Present	Mineral Endowment	Groundwater	Geoscience and Society	UNCOVER Symposium
Sub Theme	Integrating Structure and Geochemistry	Proterozoic orogens welding the West, North and South Australian cratons	Volcanism: modern to ancient, plate edge to plate interior	Southern Hemisphere Quaternary	Hyperspectral Applications in Economic Geology	Groundwater	Geoheritage	
Session Chair	Steven Micklethwaite and Andrew Tomkins	David Kelsey	Jessica Trofimovs	Rachel Rudd	Alan Mauger	Matthias Raiber	Margaret Brocx and Vic Semeniuk	Steve Hill
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	Riverbank Room 5	City Room 3	Riverbank Room 7 and 8
11:00am - 11:20am	Nicholas Oliver (Keynote) <i>Combined slow and rapid mineral precipitation in lode gold and IOCG deposits</i>	Mark Pawley <i>Finding closure: multiple stages of Musgravian- aged deformation in the eastern Musgrave Province</i>	Karin Orth <i>Paleovolcanology of a northwest Australian Large Igneous Province: outpouring of the c. 1795 Ma Carson Volcanics</i>	Brad Pillans <i>Lake George: a sedimentary archive of the Quaternary period</i>	John Keeling <i>Mesoproterozoic Cariewerloo Basin, South Australia: spectral approach to mapping mineral diagenesis as a guide to fluid flow and unconformity uranium potential</i>	David Gray (Keynote) <i>Hydrogeochemistry in Australia: challenges and possibilities</i>	Ian Lewis <i>Australian geology and the State Heritage Register - balancing the natural and built environment listings. Example: the Naracoorte Caves Complex</i>	Robert Hough <i>Characterising the cover</i>
11:20am - 11:40am		Peter Betts <i>Tectonic evolution of the Leichhardt River Fault Trough</i>	Peter Reynolds <i>The evolution of submarine basaltic volcanoes</i>	Patrick De Deckker <i>A high-resolution record of oceanic changes offshore southern Australia spanning the last 55,000 years: implications for southern hemisphere westerlies</i>	Simon van der Wielen <i>Regional 3D Mineral Maps from HyLogger Data – examples from eastern Gawler Craton</i>		Trudi Semeniuk <i>A protocol using the Geoheritage Tool-kit to identify, assess and prioritise sites of geoheritage significance in New South Wales, Australia</i>	Karol Czarnota <i>Determining depth of cover</i>
11:40am - 12:00pm	Steven Micklethwaite <i>Geo-tipping point - Impact of a humble carbonate on microfracture, gold remobilisation and the Generation of a world-class gold deposit</i>	Eloise Beyer <i>Geochemical evidence for an evolving tectonic setting in the northeastern Aileron Province, central Australia</i>	Glen Bann <i>Tuffs, dykes, xenoliths, glendonites, fossils and volcanoes: a review of the volcanology and sedimentation of the Mid Permian southern Sydney Basin</i>	Georgina Falster <i>Climate variability in southern Australia during the last glacial-interglacial transition: a multi-proxy (micro-XRF and stable isotope) record from Lake Surprise</i>	Carsten Laukamp <i>Advances in mineral spectroscopy for rapid resource characterisation – examples from South American base metal deposits</i>	Tim Munday <i>Uncovering the groundwater resource potential of Murchison Region of Western Australia through targeted application of airborne electromagnetics</i>	Penelope Clifford <i>Sedimentary processes, stratigraphic sequences, and middens: the link between archaeology and geoheritage – a case study from the Quaternary of the Broome region, Western Australia</i>	Jon Hronksy <i>Economic exploration search space: defining economic parameters for exploration</i>
12:00pm - 12:20pm	Andrew Tomkins <i>Regional brines in the Mt Isa Inlier: unavoidable phase separation and consequences for fluid chemistry and crustal structure</i>		Max Brown <i>Devonian Tolmie Igneous Complex, northeast Victoria: 1960's findings and some later observations, interpretations, and misinterpretations</i>	Gianluca Marino <i>Ice-sheet collapse, oceanic feedback, and interhemispheric climate change at the end of an ice age</i>	Georgina Gordon <i>Infrared analysis of drill cores from Paris silver prospect</i>	D.C McPhail <i>Tracing salt cycling in a small endorheic basin using chloride/bromide ratios and stable halogen isotopes</i>	Cathy Brown <i>Geoheritage importance of geological type sections and type localities - discussion and protocols for geoconservation</i>	Richard Blewett <i>Overview of national UNCOVER activities</i>
12:20pm - 1:20pm	Lunch and Poster Viewing in the Exhibition - Halls F and G			Women in Geoscience, Riverbank Room 5		AJES Authors Workshop, Room L1b		

Theme	<i>Mineral Endowment</i>	<i>Tectonics of the Planet</i>	<i>Tectonics of the Planet</i>	<i>Earth's Environment - Past to Present</i>	<i>Mineral Endowment</i>	<i>Groundwater</i>	<i>Geoscience and Society</i>	UNCOVER Symposium
Sub Theme	Integrating Structure and Geochemistry	Structural Evolution of Australia	Volcanism: modern to ancient, plate edge to plate interior	Southern Hemisphere Quaternary	Hyperspectral Applications in Economic Geology	Groundwater	Geoheritage	
Session Chair	Steven Micklethwaite and Andrew Tomkins	Rowan Hansberry	Peter Reynolds	Martin Ankor	Carsten Laukamp	Tim Evans	Margaret Brocx and Vic Semeniuk	Steve Hill
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	Riverbank Room 5	City Room 3	Riverbank Room 7 and 8
1:20pm - 1:40pm	Yuan Mei <i>Hydration is the key for metal transport in vapour fluids</i>	Colin Mazengarb <i>Pleistocene coastal terraces in northern Tasmania revisited: what do they tell us about landscape evolution and uplift rates?</i>	Margaux Le Valliant <i>Siberian basaltic flood volcanism: synchronous mass extinction and genesis of giant Ni- Cu-PGE sulphide deposits</i>	Johnathon Tyler <i>The nature and causes of megadroughts in south-eastern Australia: evidence from Holocene lake sediments, Victoria</i>	Belinda Smith <i>Garnet composition variations identified using HyLogger from Jervois, Arunta Region, Northern Territory, Australia</i>	Axel Suckow (Keynote) <i>Deep systems and old groundwater: new noble gas tools and a shift in paradigms for interpreting established tracers</i>	Jaylene Unno <i>Complex life-stage-related and environmentally diagnostic soldier crab ichnology and its preservation in beach rock along the Pilbara Coast, Western Australia - its geoheritage significance</i>	Tim Munday <i>Example of integrated regional case study - Capricorn Project</i>
1:40pm - 2:00pm	James Austin <i>Quantifying structural control on ore deposition using anisotropy of magnetic susceptibility (AMS): case studies from the Cloncurry IOCG/ SEDEX province</i>	Ian Lewis <i>Tectonic/structural influences on the Nullarbor Plain--new evidence from the large cave systems</i>	Jocelyn McPhie <i>Active submarine caldera mapped with remotely operated and autonomous underwater vehicles</i>	Rachel Rudd <i>Lake variability in Lützw-Holm Bay, East Antarctica, inferred from fossil diatoms</i>	Martin Wells <i>Quantification of Ochreous and Vitreous Goethite using Reflectance Spectroscopy</i>		Vic Semeniuk <i>Geoheritage at the small scale: bubble sand in beach and tidal deposits as diagnostic palaeoenvironmental indicators and features of geoheritage significance</i>	Ian Tyler <i>Western Australia regional study - Albany-Fraser / Eucla</i>
Sub Theme	The Australian 1.5-1.6 Ga Tectonic Environment							
Session Chair	Justin Payne							
2:00pm - 2:20pm	Peter Betts (Keynote) <i>Tectonic switches during the Palaeo-Mesoproterozoic transition: implications for mineral systems</i>	Colin Connor <i>Structuring & metamorphism of Yorke Peninsula: effects of the Olarian Orogeny in the southeastern Gawler Craton</i>	Milo Barham <i>Utilisation of marine planation surfaces to constrain Cenozoic deformation, Western Australia</i>	Guy Holdgate <i>New imagery for Port Phillip Bay and Yarra Delta drilling corroborates late Holocene channelling and evidence for bay-drying between ~2800 yr BP and ~1000 cal. yr BP</i>	David Tilley <i>Regional metamorphism and alteration in the Nymagee area of New South Wales - a HyLogger study</i>	Robert Thorne <i>Regional hydrogeochemistry of the Capricorn Orogen, Western Australia</i>	John Cann <i>Geological field guides as educational tools: the Coorong</i>	Rian Dutch <i>South Australia regional study - Western Gawler/Eucla</i>
2:20pm - 2:40pm		Tim Johnson <i>Trace element mobility in shock deformed zircon revealed by atom probe microscopy-A shocking tale!</i>	Fun Meeuws <i>Twofold origin of Cenozoic magmatism in Tasmania</i>	John Tibby <i>A geochronology and environmental record through marine isotope stage 3 from North Stradbroke Island, south-east Queensland</i>	Lachlan Hallett <i>Estimating grain density with the HyLogger</i>	Ian Brandes de Roos <i>Sedimentary basins for geothermal energy: the Montgomery House example</i>	Trudi Semeniuk <i>Geoheritage significance of limestones recording changing climates and sea levels preserved in the three-phase evolution of a Pleistocene coastal plain in south-western Australia</i>	Dorothy Close <i>Northern Territory regional study - McArthur Basin</i>
2:40pm - 3:10pm	Afternoon tea and Poster Viewing in the Exhibition - Halls F and G							
2:30pm - 3:30pm	Earth Science History Group, Room L1b							
Theme	<i>Mineral Endowment</i>	<i>Tectonics of the Planet</i>	<i>Tectonics of the Planet</i>	<i>Earth's Environment - Past to Present</i>	<i>Mineral Endowment</i>	<i>Groundwater</i>	<i>Geoscience and Society</i>	UNCOVER Symposium
Sub Theme	The Australian 1.5-1.6 Ga Tectonic Environment	Structural Evolution of Australia	Volcanism: modern to ancient, plate edge to plate interior	Southern Hemisphere Quaternary	Hyperspectral Applications in Economic Geology	Groundwater	Geoheritage	
Session Chair	Tom Raimondo	Alan Collins	Peter Reynolds	Martin Ankor	Georgina Gordon	Steven Lewis	Margaret Brocx and Vic Semeniuk	Steve Hill
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	Riverbank Room 5	City Room 3	Riverbank Room 7 and 8
3:10pm - 3:30pm	Justin Payne <i>The Hiltaba-GRV Suite as a lithospheric probe: A reflection of lower crustal or upper mantle conditions?</i>	Megan Williams <i>Are spatially variable records of overprinting metamorphism related to inherited zones of retrogression and structural weakness? Unravelling polymetamorphism in the Terre Adelie Craton (east Antarctica) and formerly contiguous Gawler Craton (South Australia)</i>	Benjamin Cooke <i>An amphibole perspective into magmatic processes at Sangeang Api volcano, Indonesia</i>	Erick Ramanaidou <i>U-Th- He dating of goethite in a staurolite-like iron-rich structure</i>	Jon Huntington <i>Some empirical hyperspectral core characterisation tools for NVCL TIR HyLogging data</i>	Prachi Dixon-Jain (Keynote) <i>Groundwater resource vulnerability assessments in SW Pacific island nations: identifying communities at risk, and climate change adaptation strategies</i>	Barry Cooper (Keynote) <i>Heritage stone designation: A new geological standard</i>	Cameron Cairns <i>Victoria regional study - Stavely</i>
3:30pm - 3:50pm	Adrian Fabris <i>Mineral systems of the southern margin of the Gawler Range Volcanics - Outcomes of the Mineral Systems Drilling Program, South Australia</i>	Stacey McAvaney <i>The Kalinjala Shear Zone: intracontinental shear zone or Palaeoproterozoic palaeosuture?</i>	Derrick Hasterok <i>Edge- convection as the cause of Cenozoic intraplate volcanism in eastern Australia: evidence from thermal isostasy</i>		Suraj Gopalakrishnan <i>A possible characterisation routine involving HyLogging, XRD and LIBS for rapid core library mineral analysis</i>		Brad Pillans <i>The National Rock Garden</i>	Chris Yeats <i>New South Wales regional study - southern Thomson Orogen</i>
Sub Theme	AJES							
3:50pm - 4:10pm	Patrick Williams <i>New geological and geochronological constraints on the origin of the Prominent Hill hematitic IOCG deposit, Gawler Craton, South Australia</i>		Lin Sutherland <i>Dynamic vectors framing east Australian plate volcanism since 100 Ma</i>	Anita Andrew <i>Winning the publishing game! The first stage - being accepted</i>	Tony Hill <i>HyLogging unconventional petroleum core from the Cooper Basin, South Australia</i>	Irina Emelyanova <i>Determining porosity-permeability relationships from core plugs for aquitard formations in the Gunnedah Basin, Australia</i>	Ben Grguric <i>The history and heritage value of the mineral collection of the South Australian Museum</i>	Mark Duffett <i>Tasmania regional study - Roseberry/Lyell</i>
4:10pm - 4:30pm				Alex Lazarri <i>Winning the publishing game! The second stage - being found</i>	Davide Pistellato <i>Virtual and classical outcrop mapping for reservoir analogue modelling</i>		Douglas Finlayson <i>Woolshed Creek Fossil Site - Canberra's heritage from long, long ago</i>	Janelle Simpson <i>Southern Mount Isa Inlier investigations under cover</i>
4:30pm - 5:30pm	Poster Viewing and Drinks in the Exhibition - Halls F and G							
5:30pm	Specialist Group in Economic Geology, Riverbank Rooms 7&8							
6:30pm - 11:30pm	Convention Dinner, Panorama Ballroom, Adelaide Convention Centre							

Thursday 30 June 2016

8:00am - 5:00pm	Registration Open, Foyer F							
8:45am - 9:45am	Paul Hoffman (Department of Earth and Planetary Sciences, Harvard University, USA) - <i>Dates and dynamics – Snowball Earth comes of age</i> - Hall L Chair: Graham Carr (Geological Society of Australia)							
Theme	<i>Mineral Endowment</i>	<i>Tectonics of the Planet</i>	<i>Tectonics of the Planet</i>	<i>Earth Science for Energy</i>	<i>Mineral Endowment</i>	<i>Groundwater</i>	Sprigg Symposium: Earth's Evolving Climate	
Sub Theme	The Australian 1.5-1.6 Ga Tectonic Environment	Growth Versus Reworking of the Australian Continent	Timing Tectonic Processes	Gas from Coal	Exposing the Nullarbor Basement	Groundwater		
Session Chair	Justin Payne	Ross Cayley	Marnie Forster	Carmine Wainman	Catherine Spaggiari	Ken Lawrie	John Tibby	
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	City Room 3	Riverbank Room 7 and 8	Riverbank Room 5
9:55am - 10:15am	Garry Davidson <i>The gap zone mineralisation (Prominent Hill IOCG deposit, South Australia): a zoned system in carbonate wallrocks that was produced when orogenic pyrite vein stockworks reacted with copper-bearing sulfate-rich fluids containing isotopically heavy sulfur</i>	Coralie Siegel <i>Crustal evolution and its consequences on heat-producing element enrichment/depletion, insights from NE Queensland</i>	Sareh Rajabi <i>Timing the Main Central Thrust (MCT) in the Larji-Kullu-Rampur tectonic window, NW India</i>	Robert Nicoll <i>Cisuralian stratigraphy, biostratigraphy and interbasin correlation, eastern Australia: implications for exploration</i>	Josef Holzschuh <i>13GA-EG1 Eucla-Gawler seismic survey – acquisition and processing</i>	Lutz Gross <i>Large-scale 3D resistivity inversion of subsurface fluid injection monitoring data using adjoint state Methods</i>	Thomas Gernon (Keynote) <i>Snowball Earth ocean chemistry driven by extensive ridge volcanism during Rodinia breakup</i>	
10:15am - 10:35am	James Austin <i>Iron, sulphur, redox and remanence: petrophysical variability and geophysical insights into the Cloncurry District mineral system</i>	Sandra Occhipinti <i>Marginal evolution of the northern Yilgarn margin between 2200 and 1960 Ma - as recorded in the volcano-sedimentary record</i>	Roberto Weinberg <i>High-temperature normal movement on the Main Central Thrust, Sikkim Himalayas</i>	Nigel Rees <i>Monitoring of coal seam gas depressurisation using magnetotellurics</i>	Simon Holford <i>Insights into the nature and extent of sedimentary basins underlying the Eucla Basin from reprocessing and interpretation of the 13GA-EG1 Eucla-Gawler seismic survey</i>	Pete McGrail <i>Magnetic Nanofluid for Rare Earth Extraction from Geothermal Fluids</i>		
10:35am - 11:00am	Morning Tea and Poster Viewing in the Exhibition - Halls F and G			10.30am – 11.30am, Geotourism Special Interest Group, Room L1b				
Theme	<i>Mineral Endowment</i>	<i>Tectonics of the Planet</i>	<i>Tectonics of the Planet</i>	<i>Earth Science for Energy</i>	<i>Mineral Endowment</i>	<i>Geoscience and Society</i>	Sprigg Symposium: Earth's Evolving Climate	
Sub Theme	Exploration Through Cover	Growth Versus Reworking of the Australian Continent	Timing Tectonic Processes	Gas from Coal	Exposing the Nullarbor Basement	Frontiers in Geoscience Teaching	Early - Mid - Career Researchers Symposium	
Session Chair	Richard Lilly	Peter Betts	Roberto Weinberg	Tennille Crombie	Rian Dutch	Len Altman	Patrick De Deckker and Cesca McInerney	
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	City Room 3	Riverbank Room 7 and 8	Riverbank Room 5
11:00am - 11:20am	Steve Hill <i>Taking exploration geochemistry to greater depths towards 4D landscape geochemistry of Australia's cover</i>	Naomi Tucker <i>Reworking of Archean (Yilgarn) basement during the Proterozoic in the Bungee Hills, east Antarctica</i>	Marnie Forster <i>Exhumation of the Tso Moriri metamorphic core complex in an intra-oceanic setting prior to the India-Asia collision</i>	Mark Bunch <i>Discrimination of natural CO₂ sources within the Cooper Basin</i>	Tom Wise <i>What lies beneath the western Gawler Craton? Interpretations and implications from deep crustal seismic reflection profile 13GA-EG1</i>	James Driscoll <i>The Monash earth sciences garden: a new interactive teaching experience</i>	Juraj Farkas <i>Calcium isotope constraints on marine carbon cycle, and seawater carbonate chemistry: Examples from modern and Paleozoic marine carbonates</i>	11.00am-11.30am Sandy Steacy <i>Geoscience careers and the funding cycle</i>
11:20am - 11:40am	Ravi Anand <i>Detection of buried mineralisation and lithology through transported cover in Australia</i>	Erin Martin <i>Identifying a magmatic source for the Pacific-Gondwana association: zircon Hf evidence from the Paterson Orogen, Western Australia</i>	Gordon Lister <i>The timing of exhumation in the northern New Guinea highland</i>	Carmine Wainman <i>Climate or subsidence? Geologic controls on the stratigraphic distribution of coal beds in the Jurassic Walloon coal measures, Surat Basin, Australia</i>	Geoff Fraser <i>Geochronological constraints from the Coompana Province, with implications for geological relationships with the Gawler Craton, Musgrave Province and Madura Province</i>	Graham Heinson <i>National Exploration Undercover School (NEXUS)</i>	Florian Dux <i>Clumped- isotope palaeothermometry from the cave systems of Riversleigh, Queensland</i>	11.30am - 12.00pm Tim Rawling <i>AuScope - national research funds</i>
11:40am - 12:20pm	GSA Awards, Hall L							
12:20pm - 1:20pm	Lunch and Poster Viewing in the Exhibition - Halls F and G			Specialist Group in Solid Earth Geophysics, Room L1b				

Theme	<i>Mineral Endowment</i>	<i>Tectonics of the Planet</i>	<i>Tectonics of the Planet</i>	<i>Geoscience and Society</i>	<i>Mineral Endowment</i>	<i>Geoscience and Society</i>	Sprigg Symposium: Earth's Evolving Climate	Early - Mid - Career - Researchers Symposium
Sub Theme	Exploration Through Cover	Growth Versus Reworking of the Australian Continent	Timing Tectonic Processes	War Records of Australian Geologists	Exposing the Nullarbor Basement	Frontiers in Geoscience Teaching		
Session Chair	Richard Lilly	Sandra Occhipinti	Gordon Lister	Ian Withnall	Michael Doublier	Ian Clark	Eelco Rohling and Juraj Farkas	Juan Carlos Afonso and Stephan Thiel
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	City Room 3	Riverbank Room 7 and 8	Riverbank Room 5
1:20pm - 1:40pm	Alan Mann <i>Inferring lithological information from multi-element soil geochemistry</i>	Mark Lindsay <i>Exhuming fragments of the past: Proterozoic tectonics in the east Kimberley region, Australia</i>	Anthony Reid (Keynote) <i>Mineral prospectivity and ⁴⁰Ar/³⁹Ar thermochronology of Proterozoic mobile belts: an example from the Gawler Craton</i>	Roger Bateman <i>Lesley Russell Blake on Macquarie Island and at the Western Front</i>	Rian Dutch (Keynote) <i>What lies beneath the Nullarbor Plain? Insights into the geology of the Coompana Province from deep crustal seismic reflection profile 13GA-EG1</i>	Catherine Brown <i>Defining stratigraphic units: more than polygons in a GIS</i>	Maureen Raymo (Keynote) <i>Sea level during past warm periods: rethinking the bathtub model</i>	1.20pm - 1.30pm Nicolas Flament <i>The geodynamics of past sea level change</i>
1:40pm - 2:00pm	Mel Lintern <i>Calcrete sampling for gold from the Albany-Fraser Province, Western Australia</i>	Jo Whelan <i>From migmatites to fayalite-bearing, ferroan granites: How does the Palaeoproterozoic Arnhem Province fit into the North Australian Craton?</i>		Scott Bryan <i>Professor Walter Heywood Bryan MC: Queensland's pioneering geologist</i>		Len Altman <i>A 'Foxfire Approach' to teaching integrated earth and environmental science and mathematics can increase student engagement in science, raise interest in STEM careers and increase the uptake of senior secondary science for the benefit of society</i>		1.30pm - 1.40pm Caroline Forbes <i>Exploration under cover: learning to use the overburden</i>
2:00pm - 2:20pm	Walid Salama <i>Gold in silcrete as a new vector to volcanic-hosted massive sulphide mineralisation</i>	Claire Wade <i>Palaeoproterozoic syn-tectonic magmatism on Eyre Peninsula: insights from new geochemistry and geochronology of the Peter Pan Supersuite</i>	Xiao Liang <i>Stepwise exhumation of the Triassic Lanling high-pressure belt in central Qiangtang, Tibet: insights from a coupled study of metamorphism and deformation</i>	Virginia Passmore (Keynote) <i>Edgeworth David geologist in war and peace</i>	Catherine Spaggiari (Keynote) <i>Insights on crustal architecture and evolution of the Madura Province, Western Australia, from deep crustal seismic reflection data</i>	Julie Boyce <i>Rare Earth Scientists: using outreach to attract new students</i>	Cesca McInerney <i>Climate- carbon cycle feedbacks during the Palaeocene-Eocene thermal maximum</i>	2.00pm - 2.10pm Juan Carlos Afonso <i>Towards simulation-based inversions of multiple geoscientific data for the physical state of the Earth's interior</i>
2:20pm - 2:40pm	Maria-Angelica Rea <i>Using microbial indicators in mineral exploration: New lessons from Australia</i>	Elizabeth Jagodzinski <i>Precise zircon U-Pb dating of a Mesoproterozoic silicic large igneous province: the Gawler Range Volcanics and Benagerie Volcanic Suite, South Australia</i>	Tom Raimondo <i>Large discrepancies between garnet Lu-Hf and Sm-Nd isochron ages: the problem of inherited Hf</i>			Jon Hronsky <i>The Strategic Plan of the Australian Geoscience Council - development, implementation and early result</i>	Milo Barham <i>A palaeoenvironmental proxy with more bite: assessing the applicability of O isotopes in micromammal teeth</i>	2.10pm - 2.40pm <i>Open discussion on EMCR issues: Research questions: Can we identify major overlap between EMCG presentations and foster collaboration? What is the role of UNCOVER for future research?</i>
2.40pm - 3.10pm	Afternoon tea and Poster Viewing in the Exhibition - Halls F and G							
Theme	<i>Mineral Endowment</i>	<i>Tectonics of the Planet</i>	<i>Tectonics of the Planet</i>	<i>Geoscience and Society</i>	<i>Mineral Endowment</i>	<i>Geoscience and Society</i>	Sprigg Symposium: Earth's Evolving Climate	
Sub Theme	Exploration Through Cover	Growth Versus Reworking of the Australian Continent	Timing Tectonic Processes	War Records of Australian Geologists	Exposing the Nullarbor Basement	Frontiers in Geoscience Teaching		
Session Chair	Richard Lilly	Mark Lindsay	Anthony Reid	Virginia Passmore	Tom Wise	Ian Clark	Maureen Raymo and Jonathan Tyler	
Room	Hall L	Hall M	Riverbank Room 6	City Room 1	City Room 2	City Room 3	Riverbank Room 7 and 8	Riverbank Room 5
3:10pm - 3:30pm	Richard Lilly <i>Defining geochemical exploration parameters for the Cloncurry mineral district, Queensland</i>	Ross Cayley <i>Palinspastic retro-deformation of regional-scale aeromagnetic data - key to unravelling early Devonian structural complexity that reworked the Cambrian Stovely Arc, western Victoria</i>	Amaury Pourteau (Keynote) <i>Duration of tectonic processes constrained by Lu-Hf garnet geochronology - Insights from HP/LT oceanic rocks (Halilbaği Complex) and Barrovian-type mica-schist (Menderes Massif)</i>		Clive Foss <i>Investigation of the Coompana negative magnetic anomaly in southwestern South Australia</i>	Simone Meakin <i>Reaching new audiences - the evolving role of geological surveys</i>	Brian McGowran <i>Scientific accomplishments of Reg Claude Sprigg</i>	
3:30pm - 3:50pm	Robert Thorne <i>Regolith of the Capricorn Orogen of Western Australia: geomorphic provinces and mineral exploration</i>	Peter Haines <i>Murrumbidgee Basin, Western Australia: revised Neoproterozoic stratigraphy and evidence for Ediacaran - early Cambrian tectonism beneath the Canning Basin</i>		Ian Withnall <i>War service and career of Cecil Charles Morton GSQ's first economic geologist</i>	Brian Kennett <i>The nature of the lithosphere in the vicinity of the Eucla-Gawler reflection seismic line</i>		Patrick De Deckker <i>Comparison between marine isotopes stages 2 and 4 in the Australian region based on a core obtained from Sprigg Caynabn, offshore Kangaroo Island</i>	
3:50pm - 4:10pm	Philip Heath <i>Creating regional gravity images in South Australia</i>	Verity Normington <i>Central Australia, an island paradise: Were the Musgrave Province and Arunta Region exposed during Neoproterozoic sedimentation of the Amadeus Basin?</i>	Gordon Lister <i>The Syros eclogite-blueschist boulder mélange is not related to subduction</i>	Jim Jago <i>Robert Bedford and the Adelaide scientific establishment</i>	Stephan Thiel <i>Linking Western and South Australia - insights from magnetotelluric profiling</i>		Amy Prendergast <i>Stable isotopes from mollusc shells</i>	
4:10pm - 4:30pm	Caroline Forbes <i>Exploration for iron oxide-copper-gold deposits using monazite chemistry</i>	Maree Corkeron <i>Tectonic, eustatic and sedimentary controls on palaeoenvironmental evolution in a foredeep setting close to an active margin, late Permian to early Triassic northern Bowen Basin</i>	David Giles <i>Late Proterozoic to Paleozoic thermal history of the lower Adelaidean sequences at Arkaroola. Where the heck is Delamere?</i>		Klaus Gessner <i>Interpretation of magnetic and gravity data of the Madura and Coompana Provinces along the deep crustal seismic survey 13GA-EG1</i>		Eelco Rohling <i>A paleo-perspective of climate sensitivity</i>	

Poster Listing

First Name	Last Name	Poster Title	Theme	Presentation Day	Poster Number
David	Baker	<i>A lower crust and mantle electrical resistivity model of northern Queensland</i>	Deep Earth Geodynamics	Tuesday 28 June	44
Valeria	Bianchi	<i>Coupling dynamic topography with Stratigraphic Forward Modelling: case study Springbok Sandstone</i>	Deep Earth Geodynamics	Tuesday 28 June	40
Jake	MacFarlane	<i>Electrical conductivity of the oceanic</i>	Deep Earth Geodynamics	Tuesday 28 June	43
Fariba	Kohanpour	<i>Geodynamic numerical modelling for examining tectonic scenarios of the Halls Creek Orogen</i>	Deep Earth Geodynamics	Tuesday 28 June	41
Sabin	Zahirovic	<i>Mantle flow controlling the advance and retreat of shallow seas in Southeast Asia</i>	Deep Earth Geodynamics	Tuesday 28 June	45
Nan	Zhang	<i>The Hainan flood basalts: a deep plume origin prompted by the encircled subductions at Southeast Asia</i>	Deep Earth Geodynamics	Tuesday 28 June	42
Christopher	Baiyegunhi	<i>Variations in isochore thickness of the Karoo sediments in the eastern Cape Province of South Africa, as deduced from gravity models</i>	Earth Science for Energy	Monday 27 June	87
Alan	Collins	<i>U-Pb and Hf zircon data sources the New Zealand Torlesse and the Ceduna Sub-Basin sediment origin to Queensland indicating widespread Mesozoic erosion and sediment distribution</i>	Earth Science for Energy	Monday 27 June	81
Rowan	Hansberry	<i>The Australian structural permeability map</i>	Earth Science for Energy	Monday 27 June	83
Yang	Liu	<i>Controls on coal accumulation in continental and coastal foreland basins: comparative study of the coal beds of the early Cenozoic Powder River Basin and the Pennsylvanian eastern Kentucky coalfield, U.S.A.</i>	Earth Science for Energy	Monday 27 June	84
Jean-Baptiste	Peyaud	<i>Maximizing the immediate value of wireline log information in shale evaluation</i>	Earth Science for Energy	Monday 27 June	88
Laura	Phillips	<i>Sedimentary trends in Late Permian coal measure strata, Galilee Basin</i>	Earth Science for Energy	Monday 27 June	85
Todd	Smith	<i>Lateral and temporal detrital zircon age provenance changes in the Roper Group, Greater McArthur Basin, Northern Territory</i>	Earth Science for Energy	Monday 27 June	89
Carmine	Wainman	<i>The correlation of fluvio-lacustrine strata with dated volcanic tuffs: an example from the Jurassic Walloon coal measures, Australia</i>	Earth Science for Energy	Monday 27 June	82
Yihuai	Zhang	<i>Investigation the supercritical CO₂ injected in carbonated rocks with X-ray tomography analysis</i>	Earth Science for Energy	Monday 27 June	86

Martin	Ankor	<i>Quantifying lake hydrological and isotopic responses to climate change: A coupled hydrologic-isotopic mass balance model applied to two Australian maar lakes</i>	Earth's Environment - Past to Present	Tuesday 28 June	38
Milo	Barham	<i>Assessing the fidelity of marine microvertebrate oxygen isotope signatures and their potential palaeo-ecological and -climatic utility</i>	Earth's Environment - Past to Present	Tuesday 28 June	36
Chien-Yen	Chen	<i>The interactions of arsenic minerals and microbes in groundwater</i>	Earth's Environment - Past to Present	Tuesday 28 June	30
Grant	Cox	<i>Organic and inorganic geochemistry of the Mesoproterozoic Roper Seaway</i>	Earth's Environment - Past to Present	Tuesday 28 June	31
Kelsie	Dadd	<i>Seamount volcanism at Site U1431, South China Sea, International Ocean Discovery Program Expedition 349</i>	Earth's Environment - Past to Present	Tuesday 28 June	35
Sian	Howard	<i>Taphonomy of leaf wax n-alkanes in soils: field transect and experimental degradation experiment</i>	Earth's Environment - Past to Present	Tuesday 28 June	37
Carmen	Krapf	<i>OSL dating revealing new insights into the landscape evolution of the eastern Musgrave area</i>	Earth's Environment - Past to Present	Tuesday 28 June	39
Zoe	Petrinolis	<i>Diagenetic effects on the mineral structure and isotope geochemistry of and mineral structure of biogenic silica: Implications for palaeoclimate research</i>	Earth's Environment - Past to Present	Tuesday 28 June	29
Yuexiao	Shao	<i>Reconstructing environmental histories of the Coorong Lagoon using Sr and Ca isotope proxies in water samples and otoliths</i>	Earth's Environment - Past to Present	Tuesday 28 June	32
Charles	Verdel	<i>Cryogenian interglacial stratigraphy of the Amadeus Basin, central Australia</i>	Earth's Environment - Past to Present	Tuesday 28 June	33
Sally	Watson	<i>The Ontong Java Plateau uncovered: evidence for mass wasting on the flanks of Ontong Java and Nukumanu atolls</i>	Earth's Environment - Past to Present	Tuesday 28 June	34
Douglas	Finlayson	<i>Woolshed Creek Fossil Site - Canberra's heritage from long, long ago</i>	Geoscience and Society	Wednesday 29 June	47
Amy L	Parker	<i>Past, present and future monitoring of subsidence due to groundwater abstraction using InSAR in the Perth Basin, Western Australia</i>	Geoscience and Society	Wednesday 29 June	48
Michelle	Salmon	<i>AuScope Australian seismometers in schools, helping communities understand the Earth and our impact</i>	Geoscience and Society	Wednesday 29 June	46
Christopher	Baiyegunhi	<i>Magnetic investigation and 2D/3D gravity profile modelling across the Beattie magnetic anomaly in the south-eastern Karoo Basin, South Africa</i>	Groundwater	Wednesday 29 June	51
Yohannes L.	Didana	<i>Magnetotelluric monitoring of hydraulic fracture stimulation at the Habanero Enhanced Geothermal System, Cooper Basin, South Australia</i>	Groundwater	Wednesday 29 June	50
Zuheng	Hu	<i>Hydroclimate responses to increases in greenhouse gas concentrations and land use and land cover changes</i>	Groundwater	Wednesday 29 June	49
Joseph	Rugari	<i>Electrokinetic monitoring of groundwater flow in fractured rock media</i>	Groundwater	Wednesday 29 June	52
Eline	Baudet	<i>Mineralogy and geochemical footprint of the Bulldog Shale, Eromanga Basin, Australia: a new way to explore under cover</i>	Mineral Endowment	Wednesday 29 June	6
Jonathan	Berthiaume	<i>Geometry and evolution of deformation bands and their impacts on uranium-rich fluid flow in sedimentary basins</i>	Mineral Endowment	Wednesday 29 June	10
David	Boyd	<i>Improving geological interpretation using magnetic source maps</i>	Mineral Endowment	Monday 27 June	28
Asa	Calkin	<i>Structural setting of microplaty hematite mineralisation at the Mt Helen and Silver Knight deposits, Hamersley Province, Western Australia - Implications for timing and regional exploration</i>	Mineral Endowment	Monday 27 June	15
Samuel	Connell	<i>Pyrite variation within the Mount Isa copper system: geological and structural controls</i>	Mineral Endowment	Tuesday 28 June	1

Matt	Crowe	<i>Basement architecture of the Pilbara Craton and influence on iron mineralisation in the Hamersley Province, Western Australia</i>	Mineral Endowment	Monday 27 June	16
William	Giuliano	<i>Applications of isotope systems of alkaline earth metals for the reconstruction of paleo-depositional environments in Proterozoic basins: Examples from the McArthur Basin (Australia) and Onega Basin (Fennoscandia)</i>	Mineral Endowment	Monday 27 June	27
Wei	Hong	<i>New geochronological, geochemical and Pb isotopic data for Tasmanian granitoids: possible controls on Sn mineralisation</i>	Mineral Endowment	Tuesday 28 June	2
Simon	Johnson	<i>Dating orogenic gold mineralization at the Paulsens deposit, Western Australia</i>	Mineral Endowment	Monday 27 June	17
John	Keeling	<i>Geological and exploration models of beach placer deposits: integrated from case-studies of southern Australia</i>	Mineral Endowment	Tuesday 28 June	14
Carsten	Laukamp	<i>Relationship of geochemistry and hyperspectral mineralogy to parent lithology and the degree of weathering in regolith</i>	Mineral Endowment	Wednesday 29 June	8
Vladimir	Lisitsin	<i>Early Permian mineral systems of Cape York, north Queensland, Australia</i>	Mineral Endowment	Monday 27 June	18
Drew	Lubiniecki	<i>Structural evolution of carbonate forming deformation bands in the Port Willunga Formation, South Australia</i>	Mineral Endowment	Wednesday 29 June	11
Shauna	Maguire-Olstad	<i>Trace element variation of sulphide mineralogy of the Mount Isa copper system and implications for ore genesis</i>	Mineral Endowment	Tuesday 28 June	3
Holly	Meadows	<i>Unravelling multi-stage ore formation from a mineralogically zoned deposit to determine the validity of geochemical footprints</i>	Mineral Endowment	Tuesday 28 June	4
Kieran	Meaney	<i>Detrital zircons in the modern environment: what you expect versus what you get</i>	Mineral Endowment	Monday 27 June	23
Verity	Normington	<i>Understanding landscape evolution for better targeted undercover exploration: a palaeogeographic reconstruction of the late Palaeozoic sediments covering the northwestern and southern margins of the Gawler Craton</i>	Mineral Endowment	Monday 27 June	19
Shaun	O'Brien	<i>Structural and geochemical controls on the formation of the 'Inter-lens' at the Ernest Henry mine, Queensland</i>	Mineral Endowment	Tuesday 28 June	5
Maria Angelica	Rea	<i>Microbial-mediated transformation of gold in temperate European environments</i>	Mineral Endowment	Tuesday 28 June	12
Nathan	Reid	<i>A mobile app for geological/geochemical field data acquisition</i>	Mineral Endowment	Wednesday 29 June	7
Thomas	Robson	<i>Harnessing nitrate-enriched groundwater for the regulation of 'low-acid' sulfide oxidation</i>	Mineral Endowment	Tuesday 28 June	13
Atefeh	Sansoleimani	<i>Hyperspectral analysis of minerals in the Precipice Sandstone and overlying formations</i>	Mineral Endowment	Wednesday 29 June	9
Ella	Sullivan	<i>Structural and geochemical controls on the formation of the 'Ernie Junior' ore body at the Ernest Henry mine, Queensland</i>	Mineral Endowment	Monday 27 June	20
James	Taylor	<i>Hypogene alteration as a precursor to supergene enrichment - a new style of iron ore mineralisation in the Pilbara, Western Australia</i>	Mineral Endowment	Monday 27 June	21
Steven	Trigg	<i>Regional mapping in the Ordovician Girilambone Group of New South Wales: implications for exploration targeting volcanic-associated massive sulfide mineralisation</i>	Mineral Endowment	Monday 27 June	22
Tom	Wise	<i>Geological Interpretation of the Gawler Craton section of the Eucla-Gawler Seismic Line (13GA-EG1E)</i>	Mineral Endowment	Session posters: Exposing the Nullarbor Basement	24
Tom	Wise	<i>Geological Interpretation of the Madura Province section of the Eucla-Gawler Seismic Line (13GA-EG1)</i>	Mineral Endowment	Session posters: Exposing the Nullarbor Basement	25
Tom	Wise	<i>Geological Interpretation of the Coompana Province section of the Eucla-Gawler Seismic Line (13GA-EG1)</i>	Mineral Endowment	Session posters: Exposing the Nullarbor Basement	26

Holly	Taylor	<i>Thawing Earth: Was there a pulse in silicate weathering at the end of the Marinoan glaciation?</i>	Sprigg Symposium: Earth's Evolving Climate	Thursday 30th June	111
George	Williams	<i>Strongly seasonal Proterozoic glacial climate in low paleolatitudes: a radically different pre-Ediacaran world</i>	Sprigg Symposium: Earth's Evolving Climate	Thursday 30th June	112
Stephanie	Hawkins	<i>Uncovering the petrophysical properties, mineralogy and geophysical expression of the Mount Colin and Kalman Cu-Au deposits, Cloncurry, QLD</i>	UNCOVER Symposium	Wednesday 29th June	113
Dietmar	Muller	<i>The Future of Mineral Exploration in the Cloud</i>	UNCOVER Symposium	Wednesday 29th June	114
Ryan	Noble	<i>Ultrafine soil fractions: sizeable benefits to improve our ability to explore through cover</i>	UNCOVER Symposium	Wednesday 29th June	115
Ben	Patterson	<i>Starra & SWAN – Same, same, but different: a petrophysical analysis of two contrasting IOCG deposits in the Selwyn–Mt. Dore region, Queensland</i>	UNCOVER Symposium	Wednesday 29th June	116
Anya	Reading	<i>Data driven knowledge discovery for earth sciences: aims and actions</i>	UNCOVER Symposium	Wednesday 29th June	117
Matt	Sisson	<i>Uncover Cloncurry: an integrated approach to understanding the mineralisation systems of the Cloncurry District: case studies on Cameron River, Little Eva, and Trekelano</i>	UNCOVER Symposium	Wednesday 29th June	118
Deepika	Venkataramani	<i>Understanding the 3D structure of the Gilmore fault zone through geophysical modelling: implications for Lachlan tectonic reconstructions</i>	UNCOVER Symposium	Wednesday 29th June	119
Lutz	Gross	<i>Esript - open-source tool for numerical modeling of Earth's processes</i>	AuScope 10 Year Anniversary Symposium	Tuesday 28th June	109
Malcolm	Sambridge	<i>The AuScope Inversion Lab: data science tools for the community</i>	AuScope 10 Year Anniversary Symposium	Tuesday 28th June	110

Rashed	Abdullah	<i>Crustal architecture and tectonic evolution of the northwestern Thomson Orogen</i>	Tectonics of the Planet	Monday 27 June	99
Brandon	Alessio	<i>Origin and tectonic evolution of the NE basement of Oman - a window into the Neoproterozoic accretionary growth of India?</i>	Tectonics of the Planet	Tuesday 28 June	72
Mahbubul	Ameen	<i>Diorite tonalite in northwest Bangladesh: constraints on the geodynamic and crustal evolution of the crystalline basement of Bangladesh</i>	Tectonics of the Planet	Tuesday 28 June	73
Leo	Anderberg	<i>Structural controls on the formation of asbestos in the Great Serpentine Belt</i>	Tectonics of the Planet	Monday 27 June	100
Sheree	Armistead	<i>A re-evaluation of the Kumta Suture in southwest India and its extension into Madagascar</i>	Tectonics of the Planet	Tuesday 28 June	74
Milo	Barham	<i>The answers are blowin' in the wind: ultra-distal airfall zircons, evidence of Cretaceous super-eruptions in eastern Gondwana</i>	Tectonics of the Planet	Wednesday 29 June	94
Michael	Bell	<i>The geodynamic significance of the Gilmore fault zone, Lachlan orogen: structural characteristics, kinematic history and timing</i>	Tectonics of the Planet	Monday 27 June	101
Eloise	Beyer	<i>Timing and duration of the Palaeoproterozoic tectonothermal evolution of the northeastern Aileron Province, central Australia</i>	Tectonics of the Planet	Wednesday 29 June	54
Kamini	Bhowany	<i>Phase equilibria modelling constraints on the P-T conditions of eclogitised granulite in the Bergen Arcs, Norway</i>	Tectonics of the Planet	Wednesday 29 June	55
Kiara	Bockmann	<i>Metamorphic controls on U-Th distribution in the crust</i>	Tectonics of the Planet	Monday 27 June	56
Kiara	Bockmann	<i>Age of Metamorphism in the Kanmantoo Sediments at Reedy Creek, South Australia</i>	Tectonics of the Planet	Wednesday 29 June	57
Adrienne	Brotodewo	<i>Constraints on Oligocene-aged magmatism and deformation in the Yorke Peninsula</i>	Tectonics of the Planet	Wednesday 29 June	59
Hugo	Burgin	<i>4D fracturedistribution as a signature of structural evolution in the Otway Basin</i>	Tectonics of the Planet	Wednesday 29 June	68
Matthew	Campbell	<i>Structure and provenance of Permian successions in the Texas Orocline (Queensland, Australia): Tectonic implications and significance</i>	Tectonics of the Planet	Monday 27 June	102
Alan	Collins	<i>Testing Azania: using detrital zircon U-Pb ages and Hf isotopic record to constrain tectonic affinities within the East African Orogen</i>	Tectonics of the Planet	Wednesday 29 June	60
Wayne	Cowley	<i>Abandonment of the Paleoproterozoic Lincoln Complex, Gawler Craton, South Australia</i>	Tectonics of the Planet	Wednesday 29 June	61
Natalie	Debenham	<i>The influence of fault and fracture networks on permeability anisotropy in porous sandstones: a case study at Castle Cove, Otway Basin</i>	Tectonics of the Planet	Wednesday 29 June	69
Esmail	Eshaghi	<i>Investigating the Moho beneath onshore and offshore Tasmania using the complete Bouguer anomaly</i>	Tectonics of the Planet	Monday 27 June	103
Nicholas	Fernie	<i>Constraining Gondwana break-up and associated rift-shoulder exhumation of the Ghanese continental margin using fission track thermochronology</i>	Tectonics of the Planet	Monday 27 June	90
Marnie	Forster	<i>Highly retentive core domains in K-feldspar preserve argon ages from high temperature stages of granite exhumation</i>	Tectonics of the Planet	Wednesday 29 June	62
Jodi	Fox	<i>Cape Grim, NW Tasmania: a world class example of submarine basaltic intraplate volcanism</i>	Tectonics of the Planet	Wednesday 29 June	95
Adrian	Gaehl	<i>Rutile thermometry from ultrahigh temperature metamorphic rocks - what do the temperatures mean?</i>	Tectonics of the Planet	Monday 27 June	91
Klaus	Gessner	<i>Paleoproterozoic subduction zones and their role in craton assembly in Western Australia</i>	Tectonics of the Planet	Tuesday 28 June	77
Gary	Gibson	<i>Geologically recent volcanoes and recent earthquakes in the Newer Volcanic Province of SE Australia</i>	Tectonics of the Planet	Wednesday 29 June	96

Rowan	Hansberry	<i>A shale detachment in Thailand: evidence of brittle deformation from structural observations and laboratory analysis</i>	Tectonics of the Planet	Wednesday 29 June	63
Simon	Holford	<i>Burial and exhumation of late Palaeozoic land surfaces in southeastern Australia</i>	Tectonics of the Planet	Monday 27 June	92
Simon	Johnson	<i>The role of radiogenic heat in prolonged intraplate reworking</i>	Tectonics of the Planet	Wednesday 29 June	53
Uwe	Kirscher	<i>Large scale reorganization within supercontinents - The Pangea controversy</i>	Tectonics of the Planet	Tuesday 28 June	75
Yebo	Liu	<i>Palaeomagnetic investigation of mafic dykes in the southwestern Yilgarn Craton, Western Australia</i>	Tectonics of the Planet	Tuesday 28 June	76
William	Mansfield	<i>Archaean high pressure metamorphism in the Coorg block, SW India</i>	Tectonics of the Planet	Monday 27 June	58
Kieran	Meaney	<i>Proterozoic evolution of the Barossa Complex, SE Gawler Craton, South Australia</i>	Tectonics of the Planet	Wednesday 29 June	64
David	Moore	<i>Ribbon tectonics in VanDieland</i>	Tectonics of the Planet	Monday 27 June	104
Sandra	Occhipinti	<i>Regional structural interpretation and depositional history of the Bresnahan Group, Capricorn Orogen, Western Australia</i>	Tectonics of the Planet	Wednesday 29 June	65
Kate	Robertson	<i>The electrical resistivity of the Delamerian and Lachlan Orogens of Victoria using magnetotellurics</i>	Tectonics of the Planet	Monday 27 June	105
Uri	Shaanan	<i>Detrital zircons as palaeodrainage indicators: insights into southeastern Gondwana from Permian basins in eastern Australia</i>	Tectonics of the Planet	Wednesday 29 June	66
Sameh	Shahin	<i>Structural facies analysis and facies distribution of Cryogenian glacial rocks and regional structures in the Willouran Ranges, SA</i>	Tectonics of the Planet	Wednesday 29 June	70
Andrew	Takonis	<i>The structural evolution and kinematics of the southern Tamworth Belt of the New England Orogen at Gundy, Rouchel Block, New South Wales</i>	Tectonics of the Planet	Monday 27 June	106
Renee	Tamblyn	<i>Cambro-Ordovician eclogite in the southern New England Fold Belt</i>	Tectonics of the Planet	Monday 27 June	107
Maria	Then	<i>Geochemical and Sm-Nd isotope constraints on the origin of the c. 1800 Ma Boothby orthogneiss, Aileron Province, central Australia</i>	Tectonics of the Planet	Tuesday 28 June	78
Jan	Varga	<i>Tectonic Evolution of the North Qinling Terrane, Qinling Orogen, central China</i>	Tectonics of the Planet	Wednesday 29 June	67
Claire	Wade	<i>Mid-Devonian basaltic magmatism and associated sedimentation, central-eastern South Australia: the Ooloo Hill Formation, an intracontinental back-arc basin</i>	Tectonics of the Planet	Wednesday 29 June	97
Roberto	Weinberg	<i>Dynamics of the Main Central Thrust: insights from the Alaknanda valley, Garhwal Himalaya</i>	Tectonics of the Planet	Wednesday 29 June	93
Samuel	Weiss	<i>Geochemical and Sm-Nd isotope constraints on the origin of the c. 1780 Ma high heat producing Napperby Granitic Gneiss, Aileron Province, central Australia</i>	Tectonics of the Planet	Tuesday 28 June	79
Mario	Werner	<i>Newly discovered occurrences of the Paney Rhyolite and associated volcanoclastic deposits, Narlaby Well area, Gawler Range Volcanic Province</i>	Tectonics of the Planet	Wednesday 29 June	98
Weihua	Yao	<i>The Ediacaran-Silurian Nanhua foreland basin in South China: response to the Gondwana assembly</i>	Tectonics of the Planet	Tuesday 28 June	71