

MONDAY 22 AUGUST 2016

Key	Petroleum	Minerals	Near Surface	Keynote Presentation	
07:30	Registration - Foyer H				
08:00	Trade Exhibition Open				
08:30	Conference Opening and Planary Address Hall L				
08:35	Welcome to Country				
08:40	Chris Picton MP Member for Kaurua				
09:00	ASEG, PESA and AIG presidents address				
09:15	ASEG awards				
09:40	Plenary Address: Exploring on the frontier: policy, regulatory and management lessons from the Great Australian Bight, Peter Metcalfe, Director, Upstream External Affairs, BP Australia				
10:10	Morning Tea - Halls F & H				
10:40-12:20	Concurrent Session 1A - 1E				
	<p>Petroleum 1.A Offshore Case Studies Hall L Chair: Simon Brealey</p>	<p>Petroleum 1.B Gravity & Applications Room L2 Chair: Terry Crabb</p>	<p>Minerals 1.C Characterising Cover (1) Passive Seismic Hall M Chair: Philip Heath</p>	<p>Minerals 1.D Distal Footprints (1) Case studies Hall N Chair: Mike Dentith</p>	<p>Near Surface / Engineering 1.E Hazards and Engineering Room L1 Chair: Adam Davey</p>
10:40	Basement influences on structural styles in the Bremer and Eyre Sub-Basins, southern Australia <i>Jane Cunneen, Curtin University, Australia</i>	Keynote Address: The Direct Detection of Gravitational Waves: the discoveries so far, prospects for the future and benefits for exploration technology <i>David Blair, Winthrop Professor Director, Australian International Gravitational Research Centre</i>	Passive seismic surveying for depth to base of paleochannel mapping at Lake Wells, Western Australia <i>Matt Owers, Resource Potentials, Australia</i>	Understanding the 3D structure of the Gilmore fault zone through geophysical modelling: implications for Lachlan tectonic reconstructions <i>Deepika Venkataramani, University of Newcastle, Australia</i>	Finding bedrock in uncontrolled clayey fill - success with GPR profiling <i>Roderick Lawrence, Macquarie University, Australia</i>
11:05	Kraken 3D - acquisition to interpretation on the edge of the Browse <i>Jarrold Dunne, Karoon Gas Australia, Australia</i>	Comparison of satellite altimetric gravity and ship-borne gravity - offshore Western Australia <i>Asbjorn Norlund Christensen, Nordic Geoscience, Australia</i>	Benchmarking passive seismic cover depth assessments <i>Sarah Buckerfield, Geoscience Australia, Australia</i>	2½-D inversion constraints on the palinspastic retro-deformation of Siluro-Devonian structures in the Black Range region, western Victoria – the “Crab Nebula” untangled <i>Phil Skladzien, Geological Survey of Victoria, Australia</i>	An integrated geophysical survey at a landslide-prone area <i>Koya Suto, Terra Australis Geophysica Pty Ltd, Australia</i>
11:30	Multi-source design and penta source case study from the NWS Australia <i>Edward Hager, Polarcus, Singapore</i>	Interpreting the direction of the gravity gradient tensor eigenvectors: The main tidal force and its relation to the curvature parameters of the equipotential surface <i>Carlos Cevallos, CGG Multi-Physics, Australia</i>	Keynote Address: Effective Mineral Exploration Under Cover: Addressing the Challenge Using Passive Seismic Methodology <i>Nick Smith, PassiveX Pty. Ltd., Australia</i>	The discovery of the Artemis polymetallic deposit <i>Andrew Thompson, Minotaur Exploration, Australia</i>	3D aeromagnetic imaging of Iwate volcano, northeast Japan <i>Shigeo Okuma, Geological Survey of Japan, AIST, Japan</i>

11:55	First results of inaugural deployments of the Australian National Ocean Bottom Seismograph Fleet <i>Alexey Goncharov, Geoscience Australia, Australia</i>	Full Spectrum Gravity - Improving AGG data quality at both ends of the spectrum <i>Chris van Galder, CGG, Canada</i>		Application of vertical electrical sounding method to identify distribution of hot groundwater around the hot springs in geothermal prospect area <i>Mariyanto Mariyanto, Institute of Technology Bandung, Indonesia</i>	Delineation of tunnel valleys across the North Sea coastline, Denmark based on reflection seismic data, boreholes, TEM and Schlumberger soundings <i>Theis Raaschou Andersen, VIA University College, Denmark</i>
12:20	Lunch				
13:20	Posters: Hall F				
13:45-15:00	Concurrent Session 2A - 2E				
	Petroleum 2.A Onshore Case Studies Hall L Chair: Andrew Long	Petroleum 2.B Exploration Techniques Room L2 Chair: Selina Wallace	Minerals 2.C Characterising Cover (2) Potential Fields Hall M Chair: Dave Isles	Minerals 2.D Distal Footprints (2) Heat Flow Hall N Chair: Philip Heath	Minerals 2.E 4D Geodynamics (1) Room L1 Chair: Chris Wijns
13:45	New insights into the petroleum potential of the onshore Otway Basin <i>Lucas McLean-Hodgson, SRK Consulting, Australia</i>	Exploration chance of success predictions - statistical concepts and realities <i>Balakrishnan Kunjan, Cue Energy, Australia</i>	Large Scale Magnetotelluric Sounding at the Periphery of the Songliao Basin, NE China <i>Weijun Zhao</i>	Heat flow: The neglected potential field for mineral exploration <i>Graeme Beardsmore, Data61, Australia</i>	Next generation resource discovery linking geophysical sensing, modelling and interpretation <i>Klaus Regenauer-Lieb, UNSW Australia, Australia</i>
14:10	Exploring the sub-salt play in the frontier Amadeus Basin - Insights from regional 2D seismic and potential field data <i>Emma Hissey, Santos Ltd, Australia</i>	Improving prediction of Total Organic Carbon in prospective Australian basins by employing machine learning <i>Irina Emelyanova, CSIRO Energy, Australia</i>	Revising gravity terrain corrections in Tasmania <i>Mark Duffett, Mineral Resources Tasmania, Australia</i>		
14:35	Waveform classification as a pseudo for reservoir thickness <i>Bonnie Lodwick, Santos, Australia</i>	X-ray computed tomography of structures in opalinus clay from large scale to small scale after mechanical testing <i>Gerhard Zacher, GE Sensing & Inspection Technologies GmbH, Germany</i>		238 Numerical modelling of the Sydney Basin using temperature dependent thermal conductivity measurements <i>Alexandre Lemenager, Macquarie University, Australia</i>	Microseismic characterization of brittle fracture mechanism in highly stressed surrounding rock mass <i>Yupeng Jiang, Centre for Geoscience Computing, The University of Queensland, Australia</i>
15:00	Afternoon Tea - Halls F & H				
15:30-17:10	Concurrent Session 3A - 3E				
	Petroleum 3.A Seismic Acquisition Hall L Chair: Doug Roberts	Petroleum 3.B Alternative Technologies Room L2 Chair: Terry Crabb	Minerals 3.C Characterising Cover (3) Hall M Chair: Jonathan Ross	Minerals 3.D Distal Footprints (3) Case studies Hall N Chair: Tim Keeping	Near Surface / Engineering 3.E New Technologies Room L1 Chair: Kim Frankcombe
15:30	Keynote Address: Making waves - towards a new era of seismic recording equipment <i>Jason Criss, INOVA Geophysical, United Kingdom</i>	Black Swan airborne geophysical survey structural interpretation for hydrocarbons targeting in the Perth Basin <i>Carlos Cevallos, CGG Multi-Physics, Slovakia</i>	Keynote Address: Mapping cover-thickness to UNCOVER basement and deep Earth architecture and processes <i>Karol Czarnota, Geoscience Australia, Australia</i>	Mapping the Punt Hill IOCG system using geophysical, geochemical and spectral methods - an integrated approach <i>Adrian Fabris, Department of State Development, Australia</i>	Extracting IP information from AEM data to improve the hydrogeological interpretation <i>Andrea Viezzoli, Aarhus Geophysics ApS, Denmark</i>

15:55		Potential field data guided seismic forward modelling of basement structures: a case study from offshore Nile Delta Basin <i>Shastri Nimmagadda, Curtin University, Australia</i>		Looking into a 'Blue Hole' - Resolving magnetization and structure from the complex negative Coompana Anomaly, South Australia <i>Clive Foss, CSIRO Mineral Resources, Australia</i>	Transient surface impedance (TranSIM) measurements using discrete lightning for electromagnetic mapping at audio frequencies <i>Artyom Emelyanenko, Griffith University, Australia</i>
16:20	Low-Fold 3D Seismic: A Key to Unlocking Exploration Potential Cost-Effectively in the Eromanga Basin <i>Jennifer Clifford, Santos Ltd, Australia</i>	High resolution magnetic anomaly modelling and its implication for petroleum prospectively on Seram Island, Maluku, Indonesia <i>Harry Siagian, Center for Geological Survey, Indonesia</i>		Integrated geological and geophysical interpretation for the Koodaideri Detrital Iron Deposits, Fortescue Valley, Western Australia <i>James Reid, Mira Geoscience Asia-Pacific Pty Ltd, Australia</i>	
16:45	Application of Interferometric MASW to a 3D-3C Seismic Survey <i>Shaun Strong, Velseis, University of Qld, Australia</i>	Analysis of electromagnetic depth sounding responses over a layered earth: investigating oil & gas seeps in the petroleum provinces <i>Shastri Nimmagadda, Research Fellow, Australia</i>		Application of the airborne electromagnetic method for Banded Iron-Formation mapping in the Hamersley Province, Western Australia <i>Regis Neroni, Fortescue Metals Group, Australia</i>	Mapping groundwater and soil moisture using multi-depth electrical conductivity data from AgTEM4™ cart <i>David Allen, Groundwater Imaging Pty Ltd, Australia</i>
17:10	Close of Sessions				
17:10-18:10	Happy Hour - Halls F & H				

TUESDAY 23 AUGUST 2016

07:30 **Registration** - Foyer H
08:00 **Trade Exhibition Open**
08:30-10:10 **Concurrent Session 4A - 4E**

	Petroleum 4.A Seismic Facies Hall L Chair: Paul Strong	Petroleum 4.B Rock Physics Room L2 Chair: Frank Nicholson	Minerals 4.C Characterising Cover (4) Electromagnetics Hall M Chair: Graham Heinson	Minerals 4.D Distal Footprints (4) Airborne Geophysics Hall N Chair: Dave McInnes	Near Surface / Engineering 4.E Acquisition Approaches Room L1 Chair: Jonathan Ross
08:30	Keynote Address: Seismic facies mapping-getting more geology into your play <i>Rob Kirk, Consultant, Australia</i>		Integrated inversion of electromagnetic and geological data for regolith characterisation <i>Andrew King, CSIRO, Australia</i>	Results of an Integrated Helicopter ZTEM-Gravity-Magnetic system test survey over the Vredefort Dome Structure, South Africa <i>Jean Legault, Geotech Ltd., Canada</i>	Keynote Address: The Pareto principle - Something for hydrogeophysical practitioners to remember when employing geophysical data in groundwater resource assessment? <i>Tim Munday, CSIRO, Australia</i>

8:55		Integrating core and wireline log datasets- a pathway to permeability from AvO seismic? <i>Lahra Lanigan, Australian School of Petroleum, Australia</i>	Towards 3D inversion of ground based TEM data <i>Kristoffer Andersen, Aarhus University, Denmark</i>	Extending geobandwidth using the multipulse configuration <i>Tianyou Chen, CGG, Canada</i>	
9:20	Control on Pleistocene shelf drainage by post-Eocene stratigraphy of the Gippsland Basin <i>Mark Bunch, Australian School of Petroleum, Australia</i>	Laboratory experiments and numerical simulation on Bitumen Saturated Carbonates: A Rock Physics Study for 4D Seismology <i>Jason Nycz, University of Alberta, Canada</i>		The Balboa ZTEM Cu-Mo-Au porphyry discovery at Cobre Panama <i>Jean Legault, Geotech Ltd., Canada</i>	The emperor's new clothes- opportunities and limitations applying AEM to geotechnical design work <i>Andi A Pfaffhuber, NGI, Australia</i>
9:45	Spatial mapping of seismic facies variations to mitigate reservoir risk in coal prone fluvial-deltaic settings <i>Dylan Cremasco, Santos Ltd., Australia</i>	Ultrasonic measurements on thin samples: numerical modelling <i>Alexey Yurikov, Curtin University, Australia</i>	Achieving accurate interpretation results from full-waveform streamed data AEM surveys <i>Magdel Combrinck, TAU Geophysical Consultants, Canada</i>	Airborne IP detects only fine-grained minerals when compared to conventional IP <i>James Macnae, RMIT University, Australia</i>	Neotectonic intra-plate fault zone mapping and hydrogeology in floodplain sediments: an interdisciplinary approach <i>Ken Lawrie, Geoscience Australia, Australia</i>
10:10	Morning Tea - Halls F & H				
10:40-12:20	Concurrent Session 5A - 5E				
	Petroleum 5.A Seismic Interpretation Hall L Chair: Rod Lovibond	Minerals 5.B Electromagnetic Inversion (1) Room L2 Chair: Mike Hatch	Minerals 5.C Characterising Cover (5) AEM and MT methods Hall M Chair: Stephan Thiel	Minerals 5.D Distal Footprints (5) Potential Field Inversion Hall N Chair: Terry Crabb	Near Surface / Engineering 5.E Groundwater Room L1 Chair: Dave McInnes
10:40	Keynote Address: Structural Interpretation of seismic, geological realism and 3D thinking <i>Pete Boulton, Santos Ltd, Australia</i>	Fast 3D inversion of "total field" resistive limit TEM data <i>Peter Fullagar, Fullagar Geophysics Pty Ltd, Canada</i>	Magnetotellurics: Imaging basement through deep and conductive cover <i>Tristan Kemp, Geoscience Australia, Australia</i>	Keynote Address: Applying advanced gravity and magnetic inversion methods to expand the Platreef PGE-Ni-Cu resource in the Bushveld Complex <i>Nicholas Williams, High Power Exploration, Canada</i>	The East Kimberley Ord Bonaparte Plains Project: de-risking investment in agriculture and water infrastructure through airborne and ground geophysical investigations <i>Neil Symington, Geoscience Australia, Australia</i>
11:05		Geologically constrained 2D and 3D airborne EM inversion through cross-gradient regularization and multi-grid efficiency <i>Shane Mulè, CGG, Australia</i>	Improved structural mapping and conductive targeting delivered by a new 2.5d AEM inversion solver <i>Rod Paterson, Intrepid Geophysics, Australia</i>		Uncovering the groundwater resource potential of Murchison Region in Western Australia through targeted application of airborne electromagnetics <i>Tim Munday, CSIRO, Australia</i>
11:30	The geology and structural style of the Juha Gas Field Papua New Guinea, <i>Amanda Hanani, Papuan Oil Search, Australia</i>	Keynote Address: Effective and accurate processing and inversion of airborne electromagnetic data <i>Esbjorn Auken, Aarhus University, Denmark</i>	Summarising AEM data for mapping applications <i>David Annetts, CSIRO, Australia</i>	VK1™ — A Next-Generation Airborne Gravity Gradiometer, <i>Theo Aravanis, Rio Tinto Exploration, Australia</i>	An inter-disciplinary approach to airborne electromagnetics (AEM) survey design for groundwater exploration using the Australian Geoscience Data Cube and Morphotectonics <i>Ken Lawrie, Geoscience Australia, Australia</i>

11:55	Fault geometry and deformation history, Northern Carnarvon Basin <i>Chris Elders, Curtin University, Australia</i>		Magnetotelluric monitoring of hydraulic fracture stimulation at the Habanero Enhanced Geothermal System, Cooper Basin, South Australia <i>Yohannes Didana, University of Adelaide, Australia</i>	Applicability of standard Euler deconvolution, modeling and amplitude magnetic data inversion in Greenfield programs: The Leite target case study - Carajás Mineral Province – Brazil <i>João Paulo Souza, Universidade de Brasília, Brazil</i>	Frontier groundwater Investigations in the West Kimberly (Fitzroy) Region: preliminary assessment of groundwater resource potential and the salinity hazard to proposed irrigation developments from AEM and drilling data <i>Alastair Hoare, DoW WA, Australia</i>
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12:20 Lunch - Halls F & H
13:20 Posters - Hall F

13:45-15:00 **Concurrent Session 6A - 6E**

	Petroleum 6.A VSP Hall L Chair: Josh Sage	Petroleum 6.B Depth Conversion and Interpretation Room L2 Chair: Rod Lovibond	Minerals 6.C Uncertainty & Big Data (1) Hall M Chair: Philip Heath	Minerals 6.D Distal Footprints (6) Case studies Hall N Chair: Tim Keeping	Minerals 6.E 4D Geodynamics (2) Room L1 Chair: David Clark
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13:45	Mapping of fracture zones and small faults using VSP and Cross Dipole Sonic in Eastern Siberia Carbonate Reservoirs, Yurubchansky Field, Russia <i>Sergey Shevchenko, SIS Exploration, Australia</i>	A statistical approach to assessing depth conversion uncertainty on a regional dataset: Cooper-Eromanga Basin, Australia <i>David Kulikowski, University of Adelaide, Australia</i>	Keynote Address: Taming uncertainty in geophysical inversion <i>Malcolm Sambridge, Australian National University, Australia</i>	Preliminary interpretations from the 2015 Coompana aeromagnetic survey <i>Rian Dutch, Geological Survey of South Australia, Australia</i>	Keynote Address: Geophysical responses from mineral system components in the deep crust and upper mantle <i>Michael Dentith, University of Western Australia, Australia</i>
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14:10	Multi-Azimuthal walkway VSP for full azimuth seismic calibration <i>Konstantin Galybin, Schlumberger Australia Pty Ltd, Australia</i>	North West Shelf 3D Velocity Modeling <i>Laureline Monteignies, Estimages, Australia</i>		Magnetotelluric inversion, carbonaceous phyllites and an ore zone: Kevitsa; Finland <i>Cuong V. A. Le, Curtin University, Australia</i>	
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14:35	Application of fullwaveform tomography to VSP walkaway data <i>Eric Takam Takougang, Petroleum Institute, United Arab Emirates</i>	New Interpretation and Modelling Results for a Late Triassic Isolated Pinnacle Reef Complex on the Exmouth Plateau, Western Australia <i>Jarrad Grahame, CGG, Australia</i>	A Bayesian inference tool for geophysical joint inversions <i>Graeme Beardsmore, Data 61, Australia</i>	Interpreting the Eromanga and Georgina Basins from magnetotelluric data <i>Janelle Simpson, Geological Survey of Queensland, Australia</i>	Imaging fracture permeability using magnetotellurics <i>Alison Kirkby, University of Adelaide, Australia</i>
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15:00 Afternoon Tea - Halls F & H
15:30-17:10 **Concurrent Session 7A - 7E**

	Petroleum 7.A Acquisition & Processing Hall L Chair: Doug Roberts	Petroleum 7.B Unconventional Room L2 Chair: Sandy Menpes	Minerals 7.C Uncertainty & Big Data (2) Hall M Chair: Alex Ross	Minerals 7.D Distal Footprints (7) Hard Rock Seismics Hall N Chair: Greg Turner	Minerals 7.E Inversion (2) Room L1 Chair: Dave McInnes
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15:30	A robust gradient for long wavelength FWI updates <i>Andrew Long, PGS, Australia</i>		Keynote Address: Big data techniques for applied geoscience: compute and communicate <i>Anya Reading, University of Tasmania, Australia</i>	Introducing 3rd dimension into 2D reflective seismic exploration in the complex hard rock environment <i>Aleksandar Dzunic, Curtin University, Australia</i>	Quantitative magnetization vector inversion <i>Ian MacLeod, Geosoft Inc., Canada</i>
15:55	Advanced reprocessing and imaging: enhancing legacy surveys <i>Dominic Fell, WesternGeco, Australia</i>			Interpretation of hard rock seismic data using prestack diffraction imaging <i>M. Javad Khoshnavaz, Department of Exploration Geophysics at Curtin University, Australia</i>	AEM cross-gradient constrained inversion of gravity and magnetic data <i>Adrián Misael León Sánchez, CICESE, Mexico</i>
16:20	Hybridised weighted boot-strap differential semblance <i>Hamish Wilson, University of Queensland, Australia</i>	Application of Nuclear Magnetic Resonance (NMR) logs in tight gas sandstone reservoirs pore structure evaluation <i>Liang Xiao, China University of Geosciences, Beijing, China</i>	Quantifying the errors in gravity reduction <i>Philip Heath, Geological Survey of South Australia, Australia</i>	Olympic Dam seismic revisited: reprocessing of deep crustal seismic data using partially preserved amplitude processing <i>Tom Wise, Geological Survey of South Australia, Australia</i>	Inverse and forward modelling using random dipoles - case study <i>Roger Clifton, NTGS, Australia</i>
16:45	Advanced deblending scheme for independent simultaneous source data <i>Min Wang, CGG, Singapore</i>	A new method of evaluating tight sandstone reservoirs pore structure from conventional logs <i>Liang Xiao, China University of Geosciences, Beijing, China</i>	Resource management through machine learning <i>Eldad Haber, University of British Columbia, Canada</i>	An example of imaging deeper using extended vibroseis cross-correlation <i>Ross Costelloe, Geoscience Australia, Australia</i>	The 3D resolution power of the full tensor gravity gradient <i>José Paúl Calderón-Magallón, CICESE, Mexico</i>
17:10	Close of Sessions				
17:10-18:10	Happy Hour - Halls F & H				
19:00-23:00	Conference Dinner (optional) Adelaide Oval, Ian McLachlan Room				

WEDNESDAY 24 AUGUST 2016

07:30 **Registration** - Foyer H
08:00 **Trade Exhibition Open**
08:30-10:10 **Concurrent Session 8A - 8E**

	Petroleum 8.A Inversion Hall L Chair: Andrew Long	Petroleum 8.B Unconventional / Monitoring Room L2 Chair: Luke Gardiner	Minerals 8.C Lithospheric Architecture (1) Seismology & Potential Fields Hall M Chair: Stephan Thiel	Minerals 8.D Distal Footprints (8) Hard Rock Seismics Hall N Chair: Greg Turner	Minerals 8.E Uncertainty & Big Data (3) Room L1 Chair: David Annetts
08:30	Keynote Address: What's new and exciting in seismic inversion? <i>Dennis Cooke, ZDAC Geophysical Technology, Australia</i>	Using fluid-induced seismicity to infer permeability <i>Andrew King, CSIRO, Australia</i>	Keynote Address: 3D imaging of the Earth's lithosphere using noise from ocean waves <i>Yingjie Yang, Macquarie University, Australia</i>	Examples of the use of seismic reflection to re-invigorate a mature field: Tennant Creek <i>Greg Turner, HISeis, Australia</i>	Dealing with uncertainty in AEM models (and learning to live with it) <i>A. Yusen Ley-Cooper, CSIRO, Australia</i>

8:55		Relating electrical resistivity to permeability using resistor networks <i>Alison Kirkby, University of Adelaide, Australia</i>		Shoot first, ask questions later: application of seismic reflection to a greenfields zinc exploration project <i>Darren Hunt, Teck Australia, Australia</i>	Quantifying the effect of primary field modelling on TEMPEST data - The importance of uncertainty <i>Anders Vest Christiansen, Hydrogeophysics Group, Aarhus University, Denmark</i>
9:20	Obtaining low frequencies for Full Waveform Inversion by using augmented physics <i>Eldad Haber, UBC, Canada</i>	Keynote Address: Magnetotelluric monitoring of unconventional energy resource development: Disruptive technology or damp squib? <i>Graham Heinson, University of Adelaide, Australia</i>	Passive seismic studies show configuration of Paleoproterozoic subduction zones and their role in craton assembly in Western Australia <i>Ruth Murdie, GSWA, Australia</i>	Yathong Trough deep 2D reflection seismic - identifying major structures for the southern Cobar Basin, NSW <i>Rosemary Hegarty, Geological Survey of New South Wales, Australia</i>	Gravity gridding in South Australia <i>Philip Heath, Laslo Katona, Geological Survey of South Australia, Australia</i>
9:45	Estimation of reservoir fluid saturation from 4D seismic data: effects of noise on seismic amplitude and impedance attributes <i>Rafael Souza, Centre for Energy Geoscience/UWA, Australia</i>		Potential field studies along the 13GA-EG1 Eucla-Gawler deep crustal seismic reflection line <i>Ruth Murdie, Geological Survey of WA, Australia</i>	Development and Implementation of the Sparse Refraction method to exploration for Detrital Fe Deposits <i>Mike Haederle, Rio Tinto Exploration, Australia</i>	
10:10	Morning Tea - Halls F & H				
10:40-12:20	Concurrent Session 9A - 9E				
	Petroleum 9.A Anisotropy Hall L Chair: Bonnie Lodwick	Petroleum 9.B Broadband Room L2 Chair: Danny Burns	Minerals 9.C Lithospheric Architecture (2) AusLAMP MT Hall M Chair: Graham Heinson	Minerals 9.D Distal Footprints (9) Constrained modelling Hall N Chair: Marina Pervukhina	Minerals 9.E Inversion (3) Room L1 Chair: Philip Heath
10:40	Keynote Address: P- and PS-wave vector wavefields for anisotropic petrophysics <i>James Gaiser, GGC, USA</i>	Keynote Address: Back to basics on broadband seismic amplitudes, phase and resolution <i>Andrew Long, PGS Australia Pty Ltd, Australia</i>	Keynote Address: Insights into lithospheric architecture, fertilisation and fluid pathways from AusLAMP MT <i>Stephan Thiel, Geological Survey of South Australia, Australia</i>	Application of petrology & geology to the interpretation of geophysical data in defining economic porphyry-related Cu-Au mineralisation along the Ekuti Range, Morobe Province, PNG <i>Anthony Coote, APSAR, New Zealand</i>	Inversion of magnetotelluric data with fuzzy cluster petrophysical and boundary constraints <i>Duy Thong Kieu, Curtin University, Australia</i>
11:05				Getting the most out of existing exploration data: A new interpretation of the Mt Magnet Gold Camp, Western Australia <i>Sarah Monoury, SRK Consulting, Australia</i>	Geological and geophysical integrated interpretation and modelling techniques <i>Glenn Pears, Mira Geoscience, Australia</i>

11:30	Characterizing heterogeneities in a clastic reservoir using joint/simultaneous PP/PS inversion, 4D timelapse, Multi Attribute Analysis, and PSDM <i>Jason Nycz, Synterra Technologies Pty Ltd., Australia</i>	Improved subsurface imaging and interpretability through broadband reprocessing of legacy seismic data. examples from North West Shelf Australia <i>Stephen Malajczuk, Geotrace Technologies, Australia</i>	AusLAMP MT over Victoria: New insight from 3D modelling highlights regions of anomalously conductive mantle and unexpected linear trends in the crust <i>Karol Czarnota, Geoscience Australia, Australia</i>	Keynote Address: Geophysics for Ni-Cu – Where are we at and where are we going? <i>W. S. Peters, Southern Geoscience Consultants, Australia</i>	Geophysical joint inversion using statistical petrophysical constraints and prior information <i>Jeremie Giraud, Centre for Exploration Targeting, Australia</i>
11:55	Uncovering seismic HTI anisotropy of the Cooper Basin <i>Stephanie Tyiasning, The University of Adelaide, Australia</i>	Demultiple for wide-tow broadband acquisition in a shallow water environment: a case study from the NW shelf, Australia <i>Alex Browne, CGG, Australia</i>	The Flinders Conductivity Anomal(ies) revisited using AusLAMP Magnetotelluric Data in the Ikara-Flinders Ranges and Curnamona Province <i>Kate Robertson, University of Adelaide, Australia</i>		3-D resistivity inversion with electrodes displacements <i>M.H. Loke, Geotomosoft Solutions, Malaysia</i>

12:20 Lunch - Halls F & H
13:20 Posters: - Hall F

13:45-15:00 **Concurrent Session 10A - 10E**

	Petroleum 10.A Coal Hall L Chair: Henk van Paridon	Petroleum 10.B Regional Room L2 Chair: Peter Boulton	Minerals 10.C Lithospheric Architecture (3) Joint inversion Hall M Chair: Stephan Thiel	Minerals 10.D Distal Footprints (10) Airborne Geophysics Hall N Chair: Greg Street	Near Surface / Engineering 10.E NMR Room L1 Chair: Mike Hatch
13:45	Enhancing coal quality estimation through multiple geophysical log analysis <i>Binzhong Zhou, CSIRO Energy, Australia</i>	Time slicing the Cooper Basin <i>Witold Seweryn, Department of State Development, Australia</i>	Keynote Address: Multi-observable thermochemical tomography: a new approach to an old problem <i>Juan Afonso, Macquarie University, Australia</i>	Towards the resolution of dipping structures in the Capricorn Orogen using AEM <i>Sasha Banaszczyk, CET UWA, Australia</i>	Determination of Formation Specific NMR Calibrations for Water Well Evaluation in a Semi-Consolidated Aquifer <i>Phil Hawke, Wireline Services Group, Australia</i>
14:10	Thickness prediction of tectonically deformed coal using calibrated seismic attributes: A case study <i>Tongjun Chen, China University of Mining and Technology, China</i>	Pattern and origin of the present-day tectonic stress in the Australian sedimentary basins <i>Mojtaba Rajabi, Australian School of Petroleum, the University of Adelaide, Australia</i>		Airborne IP: Drybones kimberlite VTEM data Cole-Cole inversion <i>Andrea Viezzoli, Aarhus Geophysics ApS, Denmark</i>	Designing adiabatic pulses for surface NMR <i>Denys Grombacher, Aarhus University, Denmark</i>
14:35	Imaging of shallow coal structures using 2D6C Mini-SOSIE <i>Shaun Strong, Velseis, Australia</i>	Monitoring of unconventional resources using magnetotellurics <i>Nigel Rees, The University of Adelaide, Australia</i>	Integrating gravity, seismic, AEM and MT data to investigate crustal architecture and cover thickness: modelling new geophysical data from the Southern Thomson region <i>Chris Folkes, Geoscience Australia, Australia</i>	Identifying potential mineralisation targets through airborne geophysics - The Western Papua New Guinea Case study <i>Nathan Mosusu, PNG Geological Survey, Papua New Guinea</i>	Development of rapid scanning surface-NMR for wide area hydrogeologic mapping <i>Elliot Grunewald, Vista Clara Inc., United States</i>

15:00 Afternoon Tea - Halls F & H
15:30 **Conference Awards & Closing Ceremony - Hall L**
16:30 **Close of Conference**
16:30-18:00 **Farewell Drinks - Foyer F**

Posters Hall F	Monday 13:20-13:45	Tuesday 13:20-13:45	Wednesday 13:20-13:45
	Minerals	Petroleum	Near Surface
M-1	Estimating cover thickness using seismic refraction in the southern Thomson Orogen - An UNCOVER application James Goodwin, Geoscience Australia, Australia	P-2 Magnetotelluric modelling: towards a 4-D inversion Dennis Conway, University of Adelaide, Australia	NS-1 Three-dimensional Inversion of GREATEM Data: Application to GREATEM survey data from Kujukuri beach, Japan Sabry Abd Allah, Hokkaido university, Japan
M-2	Gravity gradient data filtering using translation invariant wavelet Dailei Zhang, Griffith University, Australia	P-3 Mapping sub-surface geology from magnetic data in the hives area, Western Papuan Fold Belt, PNG Irena Kivior, Archimedes Consulting, Australia	NS-2 Delineation of fault systems on Langeland, Denmark based on AEM data and boreholes Theis Raaschou Andersen, VIA University College, Denmark
M-4	Integrated Interpretation of Magnetotelluric and Potential Field Data: Assessing the Northeast Kimberley Region Mike Dentith, The University of Western Australia, Australia	P-4 Characterising extrusive and intrusive magmatism at the Kipper Field, Gippsland Basin, using 3D seismic data Peter Reynolds, The University of Adelaide, Australia	NS-4 Processing of airborne gamma-ray spectra: extracting photopeaks Eugene Druker, Geophysical Consultant, Australia
M-5	Determination of formation density through RC rods in iron ore environments Duncan Hinton, Weatherford, Australia	P-5 True-Triaxial-cell set up to estimate the stress induced anisotropy: Uniformity study Nazanin Nourifard, Department of exploration geophysics, Curtin University, Australia	NS-5 Processing of airborne gamma-ray spectrometry using inversions Eugene Druker, Geophysical Consultant, Australia
M-6	Toward 3D structural constraints from magnetic models: an example from the Montresor belt, Nunavut, Canada Victoria Tschirhart, Geological Survey of Canada, Canada	P-6 Petrophysical characterization of Gondwana Shales of South Karanpura Coal Field, Jharkhand, India. Piyush Sarkar, Indian Institute of Technology, Bombay, Mumbai, India	NS-6 Magnetotelluric imaging of a carbonatite terrane in the Southeast Mojave Desert, California and Nevada Jared Peacock, U.S. Geological Survey, United States
M-7	Edge detection of potential field data using correlation coefficients Wei Du, College of Geoexploration Science and Technology, Jilin University, China	P-7 Active tectonic and mechanic interaction between Cusiana and Yopal faults interpreting seismic and terraces geometry Jose Fernando Gomez Martinez, Universidad Industrial de Santander, Australia	NS-7 Performance of Hankel transform filters for marine controlled-source electromagnetic surveys: a comparative study Hangilro Jang, Sejong University, South Korea
M-8	Lithological mapping via random forests: information entropy as a proxy for inaccuracy Steve Kuhn, University of Tasmania/CODES, Australia	P-8 The facies architecture of submarine basaltic volcanoes and their effects on fluid flow Peter Reynolds, University of Adelaide, Australia	NS-8 An analysis on MASW responses for ground subsidence in urban areas Bitnarae Kim, Department of Energy and Mineral Resources Engineering, Sejong University, South Korea

M-9	Characterising cover and exploring under cover with AEM Shane Mulè, CCG, Australia	P-9	Analysis of gravity-driven normal faults using a 3D seismic reflection dataset from the present-day shelf-edge break of the Otway Basin, Australia. Alexander Robson, University of Adelaide, Australia	NS-9	An analysis on changes in resistivity of general reservoir dams based on time-lapse inversion of resistivity monitoring data Seo Young Song, Department of Energy and Mineral Resources Eng., Sejong University, South Korea
M-10	A new source parameters estimation method of airborne gravity gradient tensor data Shuai Zhou, Jilin University, China	P-10	The application of seismic interferometry in oil and gas geological survey on the periphery of Songliao Basin Heng Zhu, Shenyang Geological survey center, Australia	NS-10	Geoscience Australia's Geophysical Network: critical infrastructure and observed and derived data for earth monitoring and community safety. Marina Costelloe, Geoscience Australia, Australia
M-11	Field-dependent susceptibility of rocks and ores - implications for magnetic petrophysics and magnetic modelling David Clark, CSIRO Manufacturing, Superconducting Systems and Devices Group, Australia			NS-11	Aeromagnetic compensation with partial least square regression Dailei Zhang, Griffith University, Australia
M-12	Magnetic susceptibility of Edmund Basin, Capricorn Orogen, WA Heta Lampinen, University of Western Australia, Australia			NS-12	Comparing test line inversion results from different helicopterborne transient instruments with regard to hydrogeological mapping Neil Symington, Geoscience Australia, Australia
M-13	Using remote sensing and potential field data to interpret basin fill compositional variations and structures Ashley Uren, University of Western Australia, Australia			NS-13	Electrokinetic monitoring groundwater flow in fractured rock media Dennis Conway, University of Adelaide, Australia
M-14	Lithospheric Thinning by Mantle Plumes Manon Dalaison, The Australian National University, Australia			NS-14	Wireline logging: cost effective methods for new water bore certification and old leaky bore rehabilitation assessment Duncan Cogswell, Borehole Wireline, Australia
M-15	Inverting dynamic elastic moduli of a granular pack to get shear modulus of the grain Zubair Ahmed, Curtin University, Australia				

M-16 The bark without a dog - magnetic anomalies over holes in a volcanic sheet in the McArthur Basin, NT Clive Foss, CSIRO Mineral Resources, Australia

M-17 Towards an understanding of the effects of alteration on the physical properties of mafic and ultramafic rocks Cameron Adams, University of Western Australia, Australia

M-18 The electrical resistivity of the Australian lower crust Paul Soeffky, The University of Adelaide, Australia

M-19 Electric bipole antenna model study of a basin scale fault system Alexander Costall, Curtin Exploration Geophysics, Australia
