ASEG-PESA 2010 CONFERENCE AND EXHIBITION PRELIMINARY PROGRAM

Sunday 22nd	August 2010					
1600-1900	Registration Opens					
1700	Exhibition Opens					
1700-1900	Welcome Reception in Exhibition Area					
Monday 23 Au						
0700	Registration Opens					
0715	Chair and Speaker Breakfast					
0845	Opening Ceremony					
0900-1015	Plenary Session and Society Awards					
0300-1013	Dr Chris Pigram, Geoscience Australia, Chief Exec	utive Officer				
	John McGagh, RioTinto, Head of Innovation	utive Officer				
1015-1100	Morning Tea in Exhibition Area					
1100-1230	Minerals Discovery N. Stolz	Technology Advances J. Lee	Prospecting with Gravity D. Robson	Petroleum in Onshore Basins M. Dentith		
	Parkside Auditorium	Parkside 110A	Parkside G04	Parkside 110B		
1100-1130	Modelling ironstones using magnetic dipoles R Clifton	A systematic approach to the evaluation of the quality of time domain AEM data Y Wallace	The present situation and development trend of airborne geophysical technique in China S <i>Xiong</i>	Seismic exploration in desert area of Tarim basin J Guo		
1130-1200	Flying Doctor case history K Godber	Evolution of VTEM – technical solutions for effective exploration <i>J Legault</i>	Requirements for airborne gravity gradient terrain corrections <i>M Dransfield</i>	The properties of the near surface layers at Naylor Field, Otway Australia Y Al-Jabri		
1200-1230	Discovery case history of the Moran massive nickel sulphide deposit, Kambalda, Western Australia D Johnson	The concept and development of a truly flexible HTEM system <i>J Rudd</i>	FTG gravity data for prospecting exploration play models C Murphy	Seismic stratigraphy and geological evaluation of the upper Cambrian to middle Ordovician sequence, northwestern Blantyre sub-basin, Darling Basin <i>M Khalifa</i>		
1230-1330	Lunch and Exhibition Viewing					
1300-1330	Poster Viewing Session 1 in Exhibition Area					
1330-1500	Minerals Discovery R. Clifton	Technology Advances TBA	Prospecting with Gravity M. Dransfield	Petroleum in Onshore Basins TBA		
1330-1400	Experience with the issues of seismic surveying over basalts B Zhou	Feasibility of in-phase airborne TEM utilising gradient measures <i>J Lee</i>	FTG data imaging techniques for geological interpretation <i>J Dickinson</i>	Understanding the architecture and petroleum potential of Australia's onshore sedimentary basins with deep seismic reflection data <i>L Carr</i>		
1400-1430	Deep crustal seismic surveys for identifying prospective areas under cover N Stolz	Fast direct resistivity transforms for TEM systems A Davis	Airborne Gravity & Magnetics – A Fast Track multi-system approach for petroleum exploration <i>J Joseph</i>	Using potential field data for petroleum exploration targeting, Amadeus Basin, Australia M Dentith		
1430-1500	Hydrophone VSP imaging in the Agnew-Wiluna Belt, WA A Greenwood	Disrupted layered lithology can jeopardise airborne electromagnetic interpretation Y Ley Cooper	Integrated interpretation of Falcon airborne gravity gradiometer, magnetic & seismic data acquired over the Chirete Block Argentina <i>L Braga</i>	Proven and possible petroleum plays of the northern Cooper and Eromanga Basins, South Australia S <i>Menpes</i>		
1500-1530	Afternoon Tea in Exhibition Area					
1530-1700	Minerals Discovery D. Johnson	In Memory of Shanti Rajagopalan: Magnetic Innovation P. Schmidt	Industry Perspective M. Smith	Petroleum in Onshore Basins S. Menpes		
1530-1600	Mineral exploration in the St Ives area, Eastern Goldfields, using geophysical and hyperspectral data <i>R Murdie</i>	A superconducting magnetic tensor gradiometer for underwater UXO detection J Young	KEYNOTE ADDRESS: Financing upstream oil and gas projects V Lenthall	Interpretation and modeling of the Pedirka Basin (central Australia) using magnetics and gravity C Bishop		
1600-1630	Mapping nickel mineralization ahead of mining using DHTEM and BHR <i>C Kemp</i>	Precision geolocation of active electromagnetic sensors using stationary magnetic sensors <i>K Leslie</i>	The history of seismic resolution <i>J Denham</i>	Carbonate fracture permeability characterization – a case history B Link		
1630-1700	Direct detection of iron ore mineralization with induced polarisation at the Marampa Iron Ore Deposits Sierra Leone <i>M Cooper</i>	Effect of magnetic field direction and source orientation on depth estimation solutions M Lee	Collaborative R&D – A 50 year journey J Cucuzza	Shallow vertical seismic profiling experiments with a surface impact source and a cemented 3-C geophone string; Perth Basin, WA B Harris		
1700-1730	Structural analysis of the southern Ashanti Belt, Ghana using airborne geophysical data S Perrouty	Compensation of the full magnetic tensor gradient signal <i>D Argast</i>	Myths exposed on what controls base metals and gold prices N Moriarty	2.5 D forward modeling – a cost effective solution that runs on small computing systems A Kostyukevych		
1730-1830	Happy Hour in Exhibition Area sponsored by Mosaic Oil					
1830	Post Graduate Student Reception sponsored by Santos					

Tuesday 24 A	ugust 2010				
0700	Registration Opens				
0715	Chair and Speaker Breakfast				
0830-1030	Innovations in Geophysical Inversion G. Wilson Parkside Auditorium	Technology Advances J. Vrbancich Parkside 110A	Geophysics and Geothermal Applications P. Milligan Parkside G04	3D Technologies in Off-shore Basins TBA Parkside 110B	
0830-0900	KEYNOTE ADDRESS: Integrated interpretation of geology and geophysics, using inversions, to predict geology under cover <i>N Williams</i>	Approaching 10 microsec (and earlier) with the Skytem system <i>E Auken</i>	Characterising uncertainty when solving for 3D temperature: New tools for the Australian geothermal energy exploration sector <i>H Gibson</i>	KEYNOTE ADDRESS: Novel advances in simultaneous source acquisition and processing <i>I Moore</i>	
0900-0930	Data inference in the 21st Century: Some ideas from outside the box M Sambridge	Deriving the complete gravity gradient tensor from the vertical component of gravity by a Cosine transform technique <i>F Jiang</i>	A method for calibrating Australian temperature- depth models D Fitzgerald	A multi-component seismic azimuthal imaging trial: preliminary results S Strong	
0930-1000	Down the borehole but outside the box: innovative approaches to wireline log data interpretation <i>A Reading</i>	Rapid gravity and gravity gradiometry terrain corrections via a quadtree mesh discretisation A Kass	The application of geologically-constrained 3D heat conduction models to geothermal exploration <i>C O'Neill</i>	3-D tomographic Q inversion for compensating attenuation anomalies <i>K Xin</i>	
1000-1030	Gravity modeling of the Capel-Faust region- a workflow with global to local scale elements <i>R Lane</i>	AuScope National Virtual Core Library – SA node A Mauger	3D thermal modeling verses down-hole temperature extrapolation in the Sydney-Gunnedah-Bowen Basin and the implications for targeting potential geothermal anomalies <i>C Danis</i>	Value-add and safe drilling from 4D AVO evaluation in the Enfield oil field P Thomas	
1030-1100	Morning Tea in Exhibition Area				
1100-1230	Innovations in Geophysical Inversion M. Sambridge	Technology Advances M Hatch	Geophysics and Geothermal Applications C. O'Neill	3D Technologies in Off-shore Basins TBA	
1100-1130	The role of geological uncertainty in developing combined geological and potential inversions <i>L Ailleres</i>	Delineating lake bottom structure by TEM on water surface C Chen	KEYNOTE ADDRESS: The Energy Portfolio Downunder: What's new and enabling? B Goldstein	The TUI 3D seismic survey, Taranaki Basin, New Zealand reprocessing 2009 <i>J Montalbetti</i>	
1130-1200	Some comments on the inversion of multi-scale edges to create geological structure P Heath	Preliminary investigations using a helicopter time- domain system for bathymetric measurements in shallow coastal waters - Port Lincoln and Broken Bay, Australia <i>J Vrbancich</i>	ZTEM airborne AFMAG EM results over the Reese River geothermal test area central Nevada J Legault	3D mapping and gravity modelling of Capel and Faust basins P Petkovic	
1200-1230	Generating a Resource Estimate by Magnetic Field Inversion – a Study of the Hawsons Magnetite Deposit, NSW C Foss	High resolution helicopter geophysics in support of a defence engineering project <i>T Gamey</i>	Monitoring fluid reservoir in an enhanced geothermal system using magnetotellurics S Thiel	Stress dependency of shale elastic properties: measurements, modeling and prediction <i>M Pervukhina</i>	
1230-1330	Lunch and Exhibition Viewing				
1300-1330	Poster Viewing Session 2 in Exhibition Area				
1330-1500	Innovations in Geophysical Inversion A. Reading	Technology Advances TBA	Engineering Applications for Geophysics M. Tingay	Minerals Discovery S. Walker	
1330-1400	A brief analysis of ZTEM data D Sattel	Automated identification of porphyry magnetic signatures <i>EJ Holden</i>	Engineering geophysics in China Y Zhao	Comparison of Dighem EM and magnetic results for detecting epithermal and shear zone gold deposits M Shademan	
1400-1430	3D Inversion of entire AEM surveys using a moving footprint G Wilson	Application of automated detection techniques in magnetic data for identification of Cu-Au porphyries M Hope	Geophysics at Australian landfills: Case studies R Whiteley	Structure and mineralisation mapping using borehole radar at Charters Towers gold mine; successes, failures and where to next? <i>C Kemp</i>	
1430-1500	Geologically-constrained 1D TEM inversion P Fullagar	Application of Poisson's relationship to geological interpretation of gravity and magnetic field data C Foss	Mapping pollution and coastal hydrogeology with helicopterborne transient electromagnetic measurements <i>M Halkjaer</i>	The power of frequency domain EM: principles and case histories D Annison	
1500-1530	Afternoon Tea in Exhibition Area				
1530-1700	Innovations in Geophysical Inversion P. Heath	PNG Exploration TBA	Engineering Applications for Geophysics R. Whiteley	Uranium Exploration B. Dickson	
1530-1600	Improved imaging of the subsurface using a gravity and magnetotelluric joint inversion <i>R Maier</i>	KEYNOTE ADDRESS: Science Reveals Hidden Wealth in PNG <i>I Longley</i>	Resistivity imaging using flexible electrode combination for multi-hole-surface resistivity surveys <i>J Zhe</i>	Application of 3D seismics in the delineation of U bearing structures at Ranger 3 Deeps A McCoy	
1600-1630	Structurally based joint inversion of electromagnetic, seismic and potential field data for improved classification and characterization: Field examples from the vadose zone to mantle depths <i>L Gallardo</i>	Quantitative seismic interpretation for characterizing carbonate diagenesis an ELK/Antelope gas field study A Goldberg	Anatomy of the 'LuSi" mud eruption, East Java M Tingay	Airborne electromagnetic signature of a paleochannel uranium deposit S <i>Walker</i>	

Tuesday 24th August 2010				
1530-1700	Innovations in Geophysical Inversion	PNG Exploration	Engineering Applications for Geophysics	Uranium Exploration
1630-1700	Increased accuracy in mineral and hydrogeophysical modelling of AEM data via detailed description of system transfer function and constrained inversion <i>A Viezzoli</i>	The geophysical response of the Tupinda Cu-Au-Mo Porphyry prospect, Tabar Islands, Papua New Guinea <i>B Howe</i>	The application of seismic techniques in the development of the Millennium Uranium Deposit, Northern Saskatchewan, Canada <i>G Wood</i>	Unconformity-related uranium in SA-geophysical analysis of the Cariewerloo Basin <i>T Dhu</i>
1700-1730	A generalized algorithm for gravity or self potential data inversion with application to mineral exploration <i>K Essa</i>	Logistics of data acquisition in tropical, rugged terrain – the airborne geophysical surveys of the PNG highlands and Papuan Peninsula <i>G Street</i>	Processing of borehole radar data for 3D location of structures and underground tunnels for shaft risk mitigation, case examples from the Bushveld of South Africa <i>C Kemp</i>	Spatial modeling of multi-disciplinary geoscientific data for uranium exploration over the Kunjar-Darjing Basin, Orissa – A GIS approach <i>R Babu</i>
1730-1830	Happy Hour in Exhibition Area sponsored by ROC Oil			
1900	Conference Dinner			

0700	5th August 2010 Registration Opens			
0715	Chair and Speaker Breakfast			
0830-1030	Geophysics and Carbon Dioxide Issues TBA Parkside 110A	Deeper Penetration and Greater Clarity TBA Parkside Auditorium	Formation Geophysics M. Pervukhina Parkside G04	Marine Acquisition TBA Parkside 110B
0830-0900	Rapid gas transport in the near-surface of the earth <i>B Dickson</i>	Interpretation of heliborne VTEM and magnetic survey data to refine geological understanding of base metal exploration in the Central African Copperbelt <i>A Monoury</i>	The virtual rock physics lab <i>E Saenger</i>	Breaking new ground – again!! The Pegasus sub basin of the East Coast Basin, North Island, New Zealand <i>C Uruski</i>
0900-0930	4D seismic monitoring of CO ₂ sequestration D Lumley	The Drybones kimberlite: a case study comparison of ZTEM tipper AFMAG and VTEM airborne EM results <i>J Legault</i>	Estimation of carbonate elastic properties from Nanoindentation Experiments to reduce uncertainties in reservoir modelling <i>O De Paula</i>	Multi-azimuth 3D surface related multiple elimination – application to offshore Nile Delta <i>M Farouki</i>
0930-1000	Land VSP seismic sources evaluation: CO2CRC Otway project case study S Tcherkashnev	Deep conductor delineation through improved EMFlow data processing <i>J Macnae</i>	Prospect identification using AVO inversion and lithology prediction B Bailey	Studies to enhance seismic data processing for fractured basement in the Cuu Long basin of Vietnam M Tan
1000-1030	Seismic monitoring of CO ₂ geosequestration: CO2CRC Otway project case study R Pevzner	The impact of AEM receiver noise levels on detection, discrimination and resolvability of marginal targets M Combrinck	Quantitative 4D interpretation relating the seismic to production effects at Enfield, North West Shelf Australia <i>M Smith</i>	Seismic reprocessing and AvO inversion of the Northern Fields 3D (Gippsland Basin) <i>J Dunne</i>
1030-1100	Morning Tea in Exhibition Area			
1100-1230	Better Delineation of Groundwater Resources TBA	Deeper Penetration and Greater Clarity B. Musgrave	Formation Geophysics TBA	Marine Acquisition C Uruski
1100-1130	Using AEM data as part of an integrated assessment of the salinity hazard and risk to Gunbower State Forest and the River Murray floodplan in the Gunbower Island-Barr creek reach of the Murray River, SE Australia KP Tan	Geological interpretation of the 2008 seismic reflection, refraction and magnetotelluric data from the northern Eyre Peninsula, Gawler Craton <i>R Korsch</i>	Experimental verification of the physical nature of velocity-stress relationship for isotropic porous rocks <i>M Pervukhina</i>	Anisotropy estimation using VSP and surface seismic data <i>L Dahlhaus</i>
1130-1200	"The Times They Are a-Changin"- Factors affecting observed spatio-temporal patterns in ground conductivity along the Murray River floodplains, in south eastern Australia <i>T Munday</i>	Can a borehole conductivity log discredit a whole airborne EM survey Y Ley-Cooper	An initial acoustic impedance modeling method based on seismic attributes S Cha	Broadband marine towed streamer acquisition; South China Sea case study B Lim
1200-1230	Seismic signature of high permeability sandstone; Perth Basin; Western Australia <i>M AlMalki</i>	Restoring the continent-ocean boundary: constraints from lithospheric stretching grids and tectonic reconstructions <i>J Whittaker</i>	Pore pressure prediction in HP/HT – Nile Delta area P Cibin	Converted wave velocity model using 4C Ocean bottom seismometer data S <i>Rajput</i>
1230-1330	Lunch and Exhibition Viewing			
1300-1330	Poster Viewing Session 3 in Exhibition Area			
1330-1500	HMAS Sydney Presentation	Deeper Penetration and Greater Clarity J. Macnae	Formation Geophysics TBA	CSEM G. Wilson
1330-1400	Finding Sydney T Graham	Construction of a regional-scale 3D geological model from geologically constrained potential field inversion <i>R Musgrave</i>	A practical rock physics model for AvO studies in clastics and carbonates <i>J Dunne</i>	Modelling tensor magnetic gradient responses of marine CSEM <i>D Annetts</i>

Wednesday 25 th August 2010				
1330-1500	HMAS Sydney Presentation	Deeper Penetration and Greater Clarity	Formation Geophysics	CSEM
1400-1430	Finding Sydney <i>T Graham</i>	Increasing confidence in depth imaging: Case study of anisotropic depth imaging from Australia's North West Shelf D Fell	Multiple analysis – a borehole seismic solution K Galybin	Interpreting CSEM data in complex resistivity regime <i>L Lorenz</i>
1430-1500		Geophysical signatures of chemical alteration R Chopping	Seismic facies analysis and reservoir characterization based on iso-time stratigraphy frame <i>J Yan</i>	Conditioning of the 3D marine Controlled Source Electromagnetic Inversion <i>A Pethick</i>
1500-1530	Afternoon Tea in Exhibition Area & Exhibition Official Closing Ceremony			
1530-1700	Advances in Seismic Processing TBA	Deeper Penetration and Greater Clarity R. Korsch	Formation Geophysics M. Pervukhina	CSEM TBA
1530-1600	Inline delayed shot migration in tilted elliptical-cylindrical coordinates <i>J Shragge</i>	A new method for high-resolution fault imaging delivers groundbreaking insights into drilling and production of resources <i>R Oppermann</i>	Least-squares inversion of refraction amplitudes for near-surface velocity control <i>A Meulenbroek</i>	3D inversion of transient electromagnetic data from the Alvheim field, North Sea <i>M Zhdanov</i>
1600-1630	Shallow Water Demultiple B Hung	Hunting for massive sulphides between density logs <i>C Wijns</i>	AVO analysis of a shallow reverse polarity in Sydney Basin D Nadri	A CSEM case study in Southeast Asia T Lim
1630-1700	Imaging of primaries and multiples using a dual- sensor towed streamer D Whitmore	Fractal scaling of airborne EM data: an indicator of lithology and fluid connection? <i>T Dhu</i>	Reducing uncertainty in seismic interpretation using Crosswell seismic <i>A Nalonnil</i>	The marine CSEM response of a submarine massive sulfide deposit <i>P Kowalczyk</i>
1700	Exhibition Close			
1730-1830	Happy Hour in Parskside Ballroom Foyer			

0700	Registration Opens				
0715	Chair and Speaker Breakfast				
0830-1030	Groundwater and Salinity TBA Parkside 110A	EM & MT: Keeva Vozoff Symposia R. Henderson Parkside Auditorium	Architecture and Development of Offshore Basins R Hackney Parkside 110B		
0830-0900	KEYNOTE ADDRESS: Guarding the long term sustainability of groundwater resources by defining aquifier characteristics and interaquifer leakage using airborne EM technologies T Munday	K. Vozoff's contribution to Lotem <i>K Strack</i>	Basement architecture and formation of an ocean-continent transform boundary off western Tasmania: insights from aeromagnetic and seismic reflection of data collected from a frontier petroleum province G Gibson		
0900-0930	Improvements in geological mapping using optimised airbome electromagnetic data <i>J Reid</i>	Magnetotelluric surveys across major Archean tectonic boundaries in southern Western Australia <i>M Dentith</i>	Structural architecture Otway and Sorell basins derived from gravity modelling <i>G Nayak</i>		
0930-1000	Utilising airborne electromagnetics (AEM) to map key elements of the hydrogeological system and salinity hazard in the Ord Valley, Western Australia <i>K Lawrie</i>	Detailed MT surveying on the western margin of the Murray Basin to map bedrock stratigraphic conductors and cover thickness for nickel exploration <i>G Jenke</i>	Quantification of Cretaceous-Cenozoic exhumation in the Otway Basin using sonic velocities and implications for hydrocarbon exploration <i>D Tassone</i>		
1000-1030	Defining spatial patterns of inter-aquifer leakage through the application of a-priori constraints when inverting airborne EM data <i>T</i> Munday	3-D magnetotelluric inversion of 2-D profiles: application to land and marine data for shallow crustal investigation <i>S Hautot</i>	Distribution of volcanic facies and results of potential field modeling of the Mentelle basin, southwestern margin, Australia S Johnston		
1030-1100	Morning Tea				
1100-1230	Groundwater and Salinity TBA	EM & MT: Keeva Vozoff Symposia G. Wilson	Architecture and Development of Offshore Basins G Gibson		
1100-1130	Time-lapse monitoring of a saline groundwater plume using electrical geophysical methods <i>T Campbell</i>	High resolution conductivity depth transformation of TEM data P Fullagar	Mentelle Basin- a result of the combined extensional history of the southwestern and southern Australian margins <i>I Borissova</i>		
1130-1200	Integrating ground penetrating radar and ground based, high resolution EM to improve understanding of floodplain dynamics <i>M Hatch</i>	An AEM system callibration <i>J Macnae</i>	Structure styles and tectonic evolution of the Abrolhos Sub-basin, Perth Basin, Western Australia S <i>Liu</i>		
1200-1230	AEM surveys of saline water interfaces G Street	Namibia AEM mapping: A case study of airborne EM data used as a geological mapping and interpretation tool <i>M Finn</i>	Challenges in the use of potential field data for studies of remote, deep water frontier basins R Hackney		
1230-1330	Lunch in Parkside Ballroom Foyer				
1330-1500	Groundwater and Salinity J. Reid	EM & MT: Keeva Vozoff Symposia T. Lilley	Architecture and Development of Offshore Basins B. Cameron		
1330-1400	Surface water-groundwater exchange in transitional coastal environments by airborne electromagnetics: the Venice lagoon example <i>A Viezzoli</i>	High resolution versatile time domain electromagnetic (VTEM) survey for the copper gold mineralisation in the Naraccoota volcanics of Western Australia <i>M Cooper</i>	Revised plate tectonic history of the West Australian margin reveals how the Gascoyne terrane docked at West Burma A Gibbons		

Thursday 26th August 2010				
1330-1500	Groundwater and Salinity	EM & MT: Keeva Vozoff Symposia	Architecture and Development of Offshore Basins	
1400-1430	Quantitative hydrogeological framework interpretations using helibourne electromagnetic surveys for the North Platte Valley, Western Nebraska groundwater model J Abraham	Case histories of using magnetotellurics for geothermal exploration K Strack	Tectonics and direction of block movement in the northeastern South China Sea <i>J Chen</i>	
1430-1500	Ground penetrating radar to resolve water-retentive layers found on the Gnangara Mound, WA <i>E Strobach</i>	A global measure for depth of investigation in EM and DC modeling AV Christiansen	Geophysical delineation of volcanics and intrusives offshore NW Australia using global analogues <i>M Rohrman</i>	
1500-1530	Afternoon Tea			
1530-1700		EM & MT: Keeva Vozoff Symposia M. Dentith	Architecture and Development of Offshore Basins S. Johnson	
1530-1600		SkyTem System calibration: Two systems one dataset <i>A Davis</i>	Seismic velocity structure of the Wallaby Plateau and implications for its geology and evolution <i>G Nelson</i>	
1600-1630		Magnetotelluric results along the N-S Curnamona seismic traverse to the east of Lake Frome, South Australia P Milligan	3D Goussev filter: a signal separation and edge detection filter applied to aeromagnetic data over the Great Australian Bight B Cameron	
1700-1730	Official close and awards sponsored by Beach Energy			
1730-1830	Farewell drinks sponsored by Beach Energy			