

SUNDAY 18 NOVEMBER 2007: REGISTRATION AND ICEBREAKER RECEPTION

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| 08:30 | Pre-Conference Workshops | |
| 13:00 | | Exhibition Set-Up Pavilions 1 and 2 – Level 1 |
| 14:00 | Registration commences | Central Foyer – Level 2 |
| 18:00 | ICEBREAKER RECEPTION and WELCOME ADDRESS to delegates and exhibitors - <i>Sponsored by Curtin University of Technology</i> Pavilions 1 and 2 – Level 1 | |

PETROLEUM **B. Basins and Crustal Architecture Mapping Using Potential Field Geophysics** Meeting Room 8 – Level 2
C. Understanding Seismic Anisotropy in Exploration and Exploitation Meeting Room 7 – Level 2

MINERALS **A. Seismic Methods for Hard Rock Ore-body Interpretation** Meeting Room 9 – Level 2

MONDAY 19 NOVEMBER 2007: DAY ONE

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| 07:15 | Chair and Speaker Breakfast | | Meeting Room 8 – Level 2 |
| 08:00 | Registration | | Central Foyer – Level 2 |
| 08:30 | OPENING CEREMONY | Welcome Address, Representatives from Platinum sponsors Shell and Curtin University of Technology | Riverside Theatre – Level 2 |
| | PANEL DISCUSSION Moderator: Lyn Beazley, WA Government Chief Scientist | The approach of 'Peak Oil': Bruce Robinson (ASPO) Exploration for New Trap Types in Saudi Arabia: Abdulla Al Naim (VP Saudi Aramco) | |
| 10:00 | Morning Tea Break - <i>Sponsored by Hess</i> | | Pavilions 1 and 2 – Level 1 |
| | MINERALS 1.1 | PETROLEUM 1.1 | NEAR SURFACE 1 |
| Theme | Case Histories | Case Histories | Engineering |
| Venue: Chair: | Riverside Theatre – Level 2 Kim Frankcombe (Southern Geoscience Consultants) | Woodside Theatre (Meeting Room 2) – Level 2 Jim Underschultz (CSIRO Petroleum) | Meeting Room 3 – Level 2 Carina Simmat (Geoforce Pty Ltd) |
| 10.30 | Mapping Targets of High Conductance with the VTEM Airborne EM System Ken Witherly (Condor Consulting Inc, USA) | KEYNOTE ADDRESS Technology as a Key Enabler Wouter Hoogeveen (Vice President Exploration for Asia Pacific, Shell Development (Australia) Proprietary Limited) | Shallow Marine Investigations in Australia with Advanced Underwater Seismic Refraction (USR) Robert Whiteley (Coffey Geotechnics Pty Ltd, NSW) |
| 11.00 | Comparison of 3D Conductivity Imaging from Multiple EM Surveys Doug Oldenburg (University of British Columbia, CANADA) | Revealing the Reservoir: Integrating Seismic Survey Design, Acquisition, Processing and Inversion to Optimize Reservoir Characterisation Frazer Barclay (Schlumberger, WA) | Towards Development of a Risk Management Tool for Roads Affected by Dryland Salinity Gregory Street (GeoAg Pty Ltd, WA) |

Monday 19 November continues

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| 11.30 | Reconciling Airborne and Ground Geophysical Outcomes in the Athabasca Basin, Saskatchewan Canada Richard Irvine (Condor Consulting Inc, USA) | Closure Confidence: How Big is That Field? A Case Study Nick Crabtree (RPS Group PLC, UK) | Spatial Data Discovery Integrating a Spatial Search Service with a Globe Viewer Ian MacLeod (Geosoft Inc, CANADA) Presented by Chris Reimer | |
| 12.00 | Airborne Geophysical Survey of the PNG Highlands and the Papuan Peninsula Terry McConnell (Fugro Airborne Surveys, WA) | Application of Prestack Depth Migration across the Ichthys Field, Browse Basin Masamichi Fujimoto (INPEX Browse Ltd, WA) | Shallow Inductive Electric Field Response Measured With Capacitive Sensors Chris Adams (RMIT University, Vic) | |
| 12.30 | Lunch Break - <i>Sponsored by Chevron Australia Pty Ltd</i> and Poster Presentations Pavilions 1 and 2 – Level 1 | | | |
| | MINERALS 1.2 | PETROLEUM 1.2 | PETROLEUM 2.1 | NEAR SURFACE 2 |
| Theme: | Crustal / Regional | Case Histories | Seismic Modelling and Inversion | Environmental and Groundwater |
| Venue: Chair: | Riverside Theatre – Level 2 Barry Bourne (Barrick Gold of Australia Limited) | Woodside Theatre (Meeting Room 2) – Level 2 Chair tbc | Meeting Room 1 – Level 2 Andrew Long (Petroleum Geo-Services) | Meeting Room 3 – Level 2 Richard Cresswell (CSIRO) |
| 13.30 | Diamond Exploration with Airship-Borne Gravity Gradiometer David Hatch (De Beers Group Exploration, SOUTH AFRICA) Presented by Colm Murphy | Near-Surface Seismic Expression of Gas Chimneys in the Perth Basin James Leven (GeoSeis Pty Ltd, WA) | Seismic Physical Modelling of Reservoirs-Its Past, Present and Future Brian Evans (Curtin University of Technology, WA) | Frequency and/or Time Domain HEM Systems for Defining Floodplain Processes Linked to the Salinisation along the Murray River? Tim Munday (CSIRO/CRCLEME, WA) |
| 14.00 | Kimberlite Exploration using Integrated Airborne Geophysics Shanti Rajagopalan (BHP Billiton, Vic) | The Hydrodynamics of Fields in the Macedon, Pyrenee and Barrow Sands, Exmouth Sub-Basin: Identifying Seals and Compartments Jim Unterschultz (CSIRO Petroleum, WA) | Modeling of Multiples in 3D for any Acquisition Geometry Antonia Pica (Technology CGG Veritas, FRANCE) | An Assessment of "In-Stream" Survey Techniques along the Murray River, Australia Michael Hatch (University of Adelaide, SA) |
| 14.30 | Looking Left, Right and Centre, with DHMMR Kate Godber (Mitre Geophysics) | Deepwater Taranaki: (the basin with no structure north of that big field in New Zealand) Chris Uruski (GNS Science, NZ) | Non-Linear Joint AVO Inversion of PP and PS Waves in a VTI Medium Dariush Nadri (Curtin University of Technology, WA) | The Application of Airborne Geophysical Data as a Means of Better Understanding the Efficacy of Disposal Basins along the Murray River Andrew Fitzpatrick (CSIRO Exploration & Mining, WA) |
| 15.00 | Afternoon Tea Break Pavilions 1 and 2 – Level 1 | | | |

Monday 19 November continues

| | MINERALS 1.3 | PETROLEUM 1.3 | PETROLEUM 2.2 | NEAR SURFACE 3 |
|------------------|---|--|---|---|
| Theme: | Case Histories | Processing | Seismic Modelling and Inversion | Contaminated Sites |
| Venue: Chair: | Riverside Theatre – Level 2 Helen Anderson (Fugro Airborne Pty Ltd) | Woodside Theatre (Meeting Room 2) – Level 2 Martin Bayley (WesternGeco) | Meeting Room 1– Level 2 Andrew Long (Petroleum Geo-Services) | Meeting Room 3 – Level 2 Michael Hatch (University of Adelaide) |
| 15.30 | Risk Mitigation Through the Use of Geophysics Alan King (ATD-Geosciences Resource Group, SOUTH AFRICA) | Instantaneous Attributes - the What and the How Tadeusz Ulrych (University of British Columbia, CANADA) | The Virtual Source Method – Verifying the Concept using Numerical and Physical Modelling Matthew Saul (Curtin University of Technology, WA) | On the Advantage of B-Field Sensor Arrays in TEM: From Minerals to UXO and Back Again Michael Asten (Flagstaff GeoConsultants Pty Ltd, Vic) |
| 16.00 | Geophysical Characteristics of the Southern Coromandel Volcanic Zone and Associated Epithermal Deposits, New Zealand Corinne Locke (The University of Auckland, NZ) | Application of Frequency Split Structurally Oriented Filtering to Seismic Whitening and Seismic Inversion Workflows Steven Helmore (Helix RDS, UK) | Multi-Component Seismic-Resolution Analysis using Finite-Difference Acquisition Modelling Shaun Strong (Velseis Pty Ltd, Qld) | Interpretation of High-Resolution Low-Altitude Helicopter Magnetometer Surveys over Sites Contaminated with Unexploded Ordnance Stephen Billings (Sky Research Inc, CANADA) |
| 16.30 | The Importance of Geophysics and Remote Sensing in Anglo Platinum's Exploration Effort Andreas Rompel (Anglo American plc, SOUTH AFRICA) | Detailed Refraction Statics with the GRM & RCS Derecke Palmer (The University of New South Wales) | Some Seismic Experiments on Supercritical Co2 Brian Evans (Curtin University of Technology, WA) | Detectability by Electromagnetic Depth Sounding – a Data Mining Tool Aiding Interpretation of Shallow Sediments, Altered by Oil and Gas Seeps Shastri Nimmagadda (Wafra Joint Operations Company, KUWAIT) |
| 17.00 | Inmine Geophysics for Mine Planning Carina Simmat (Geoforce Pty Ltd, WA) | Applications of Time Domain High-Resolution Radon Demultiple Terry Allen (PGS Australia Pty Ltd, WA) | Insights into Seismic Inversion for Geotechnical Property Estimation in Coal Mining Peter Hatherly (University of Sydney, NSW) | Electroosmosis IP Effect as an Indicator of Hydrocarbon Compounds' Contamination: A Few Case Studies Valeriya Zadorozhnaya (Council for Geoscience, SOUTH AFRICA) |
| 17.30 | CLOSE OF SESSIONS | | | |
| 17:30 | HAPPY HOUR IN THE EXHIBITION - <i>Sponsored by WesternGeco</i> | | | Pavilions 1 and 2 – Level 1 |

| TUESDAY 20 NOVEMBER 2007: DAY TWO | | | | | | |
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| 07:15 | Chair and Speaker Breakfast | | | | Meeting Room 4 – Level 2 | |
| 08:00 | Registration | | | | Central Foyer – Level 2 | |
| | MINERALS 1.4 | MINERALS 2.1 | PETROLEUM 1.4 | FESAUS 1 | NEAR SURFACE 4 | |
| Theme: | Seismic | Modelling / Inversion | Reservoir Characterisation | Formation Evaluation and Geology | Regolith | |
| Venue: Chair: | Meeting Room 7 – Level 2 Phil Harman (Gravity Diamonds) | Meeting Room 8 – Level 2 Esben Auken (University of Aarhus) | Woodside Theatre (Meeting Room 2) – Level 2 Steve Hearn (Velseis Pty Ltd) | Meeting Room 1 – Level 2 Trevor Magee (Cooper Energy) | Meeting Room 3 – Level 2 Kirsty Beckett (Rio Tinto Iron Ore) | |
| 08.30 | Seismic Reflection Surveys to Assist Nickel and Gold Exploration in the Western Australian Goldfields Greg Turner (Geoforce Pty Ltd, WA) | Practical 3D EM Inversion – the P223F Software Suite Art Raiche (Nagunta Consulting, NSW) | Fracture Characterisation of the Elk Carbonate Reservoir, Papua New Guinea Adrian Goldberg (InterOil Australia, Qld) Presented by Sioni Sioni | Grand Challenges in Formation Evaluation Wayne Pennington (Michigan Technological University, USA) | KEYNOTE ADDRESS Regolith Geophysics: Retrospect and Prospect Lisa Worrall (Geoscience Australia, ACT) | |
| 09.00 | Detailed Seismic Refraction Surveys at Mt Bulga Derecke Palmer (The University of New South Wales) | Practical 3D EM Inversion Glenn Wilson (BP, USA) | Fast Track Reservoir Characterisation of a Subtle Paleocene Deep Marine Turbidite Field using a Rock Physics and Seismic Modelling Led Workflow Henry Morris (Ikon Science Ltd, UK) | Integration of Conventional Petrophysical Interpretation and Borehole Images Nicholas Harvey (Crocker Data Processing, WA) | | |
| 09.30 | Processing and Inversion of the Intrepid Seismic Line at the St Ives Gold Camp, Western Australia Chris Harrison (Curtin University of Technology, WA) | Spatially Constrained Inversion for Quasi 3-D Modelling of AEM Data Andrea Viezzoli (University of Aarhus, DENMARK) | Extracting Subsurface Information from Seismic Amplitudes: Promise and Reality Fred Herkenhoff (Chevron Energy Technology Company, USA) | Cluster Analysis Applied to an Exploration Dataset: Facies Classification for Improved Prospect Risking Tom Crampin (Woodside Energy Ltd, WA) | Study of Groundwater Flow in Sediments and Regolith Defined by Airborne Geophysical Surveys Gregory Street (GeoAg Pty Ltd, WA) | |
| 10:00 | Morning Tea Break - <i>Sponsored by Fugro Group</i> | | | | Pavilions 1 and 2 – Level 1 | |
| | MINERALS 1.5 | MINERALS 2.2 | PETROLEUM 1.5 | FESAUS 2 | NEAR SURFACE 5 | |
| Theme: | Radiometrics | Modelling / Inversion | Reservoir Characterisation | Advanced Formation Evaluation | Regolith | |
| Venue: Chair: | Meeting Room 7 – Level 2 Amanda Butt (Rio Tinto Iron Ore) | Meeting Room 8 – Level 2 Peter Wolfram (Fugro Airborne Surveys) | Woodside Theatre (Meeting Room 2) – Level 2 Peter Thomas (Woodside Energy Ltd) | Meeting Room 1 – Level 2 Suryakant Balgauda (Santos) | Meeting Room 3 – Level 2 Ian Hone (Bureau of Rural Sciences) | |
| 10.30 | Uranium Occurrences on Geophysical Images Roger Clifton (Northern Territory Geological Survey) | Inversion and Forward Modelling of EM Induction in Folded Sheet Conductors: Theory and Practise Jovan Silic (Flagstaff GeoConsultants, Vic) | Reservoir Compartment Prediction of the Simpson Field from the Geostatistical Inversion of AVO Seismic Data Kevin Jarvis (Fugro-Jason Australia Pty Ltd, WA) | The Building Blocks to Enable the Bridge to be Crossed Between Rock Properties and Seismic Jeff Roche (Chevron Australia Pty Ltd) | What's Regolith Got to do with a Loaf of Bread, Eucalyptus Oil and a Glass of Chardonnay? Gabiella Pracilio (The University of Western Australia) | |

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| 11.00 | Radon Emanometry in Uranium Exploration using Activated Charcoal: Namibian Case Studies Branko Corner (Remote Exploration Services Pty Ltd, NAMIBIA) | The Influence of Discretizing Conductivity Gradients in the 3-D Finite difference EM Forward Modelling Algorithms Salah Mehanee (Macquarie University, NSW) | Utilising Tuning/AVO Phenomena in Predicting Oil Column Height – Development Drilling in Tui/Amokura Fields, NZ Balakrishnan Kunjan (Australian Worldwide Exploration Limited, NSW) | Determination of NMR T2 Cutoff for Ductile, Low Permeability Shaly Sandstone Junita Trivianty Musu (LEMIGAS, Indonesia) | Mapping Porosity and Density Changes in Soil and Regolith from 256-Channel Radiometric Data Kirsty Beckett (Rio Tinto Iron Ore, WA) | |
| 11.30 | Integration of Borehole Geophysical Data in 2D and 3D to Develop a Hazard Index Timothy Chalke (Gocad – Mira Geoscience Asia Pacific Pty Ltd, Qld) | The Benefit of Combining Downhole with Surface IP Chris Wijns (Resolute Mining Ltd, WA) | Seismic Acquisition and Analysis of the Elk Carbonate Reservoir, Papua New Guinea Jason Storey (InterOil Australia Ltd, Qld) | In-House Analysis of NMR Data Facilitates Core Integration for Permeability Interpretation using a Multi-Resolutional-Clustering Technique Wayne Alger (Woodside Energy Ltd, WA) | Bioengineering of Soil Profiles: Influence on Soil Patterning and Radiometric Signaling William Verboom (Department of Agriculture and Food, WA) | |
| 12:00 | Lunch Break and Poster Presentations | | | | | Pavilions 1 and 2 - Level 1 |
| | MINERALS 1.6 | MINERALS 2.3 | PETROLEUM 1.6 | PETROLEUM 2.3 | FESAUS 3 | NEAR SURFACE 6 |
| Theme: | Downhole / Gradiometry | Modelling / Inversion | Imaging | Rock Properties | Sonic Applications | Regolith |
| Venue: | Meeting Room 7 – Level 2 | Meeting Room 8 – Level 2 | Woodside Theatre (Meeting Room 2) – Level 2 | Meeting Room 9 – Level 2 | Meeting Room 1 – Level 2 | Meeting Room 3 – Level 2 |
| Chair: | Chris Nind (Scintrex Ltd) | Mark Baigent (Baigent Geosciences) | Brian Evans (Curtin University of Technology) | Angelika Wulff (Woodside Energy) | Matt Biddle (Halliburton Logging Services) | Lisa Worrall (Geoscience Australia) |
| 13.00 | Automated Multi-Sensor Petrophysical Core Logging Adel Vatandoost (CODES, University of Tasmania) | The Magnetotelluric Impedance Tensor and its Properties Carlos Cevallos (Department of Primary Industries, NSW) | Reservoir Imaging using Induced Microseismicity Abdullah Al Ramadhan (Curtin University of Technology, WA) | Elastic and Petrophysical Properties of Shales Dave Dewhurst (CSIRO Petroleum, WA) | A Review of LWD Sonic Logging Technologies and Applications in Australia Jennifer Market (Halliburton Energy Services) | Electromagnetic Soundings of the Regolith At Kalkaroo Mineral Prospect, Curnamona Province, South Australia David Baker (Adelaide University, SA) |
| 13.30 | Gravity Gradiometer Systems – Advances and Challenges Dan Difrancesco (Lockheed Martin Maritime Systems & Sensors-Niagara, USA) | Enhancing the Exploration Process Nigel Phillips (Mira Geoscience, CANADA) | The Location of Microseismic Events and the Propagation of Ray Path and Gridded Traveltimes for Depth Migration using Locally Spherical Wavefronts John Bancroft (CREWES/University of Calgary, CANADA) | Rock Physics, Trend Curves and Flat-spots Jacques Leveille (Hess Corporation, Houston, USA) Presented by John Smallwood | Petroleum Borehole Sonic Acquisition and Interpretation – Recent Advances Doug Murray (Schlumberger Oilfield Services, CHINA) | A Semi Automated Technique to Regolith-Landform Mapping in Central West Africa Thomas Woolrych (Fugro Airborne Surveys Pty Ltd, WA) |

Tuesday 20 November continues

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| 14.00 | Description of and Results from a Novel Direct Magnetic Gradiometer Howard Golden (Gravitec Downhole Instruments Ltd, WA) | A Fast Approach to Magnetic Equivalent Source Processing Using an Adaptive Quadtree Mesh Discretization Kristofer Davis (Colorado School of Mines, USA) | Resolving Fault Shadow Problem by Fault Constrained Tomography Sergey Birdus (CGGVeritas, WA) | Investigation of Shear Wave Anisotropy in Deviated Wells Near a Salt Structure in the Gulf of Mexico Amie Lucier (Stanford University, USA) | Applications of Cross-dipole Acoustic Logging for Formation Fracture and Anisotropic Identifications Baohua Huang (Daqing Well Logging Company, Heilongjiang CHINA) | Porosity and Salt Load Prediction from Airborne EM and Borehole EC Yusen Ley-Cooper (RMIT University, Vic) |
| 14:30 | Afternoon Tea Break | | | | | Pavilions 1 and 2 - Level 1 |
| | MINERALS 1.7 | MINERALS 2.4 | PETROLEUM 1.7 | PETROLEUM 2.4 | FESAUS 4 | NEAR SURFACE 7 |
| Theme: | Instrument Forum | Modelling / Inversion | Imaging | Rock Properties | Reservoir Solutions | Regolith |
| Venue: Chair: | Meeting Room 7 – Level 2 Andrew Duncan (Electromagnetic Imaging Technology Pty Ltd) | Meeting Room 8 – Level 2 Bruce Craven (Southern Geoscience Consultants) | Woodside Theatre (Meeting Room 2) – Level 2 Andre Gerhardt (Woodside Energy Ltd) | Meeting Room 9 – Level 2 Angelika Wulff (Woodside Energy) | Meeting Room 1 – Level 2 Adrian Bal (Baker Atlas Geoscience) | Meeting Room 3 – Level 2 Gabriella Pracilio (URS Australia) |
| 15.00 | Description of and Results from a Novel Borehole Gravity Gradiometer Howard Golden (Gravitec Downhole Instruments Ltd, WA) | Matching Magnetic Source Models to Geology – An Example from the Bendigo 1:250,000 Map Sheet, Victoria Clive Foss (Principal Geophysical Consultant, NSW) | Petroleum 1.7 Session <i>Sponsored by CGGVeritas</i> Imaging of Fractures and Faults Inside Granite Basement Using Controlled Beam Migration Jason Sun (Veritas Geophysical (APAC) Pte Ltd, SINGAPORE) | Rock Physics Modelling of Elastic Properties of Rocks Saturated with Heavy Oils Dina Makarynska (Curtin University of Technology, WA) | Tui Field Geosteering Eric Matthews (New Zealand Exploration, AWE) | The Role of Landscape Evolution & Hydrostratigraphy in Dryland Salinity Development and Control in South-West Western Australia Jayath De Silva (Department of Water, WA) |
| 15.30 | Helicopter Trial of Magnetic Tensor Gradiometer Phillip Schmidt (CSIRO Exploration & Mining, NSW) | Geological Interpretation of Potential Field Inverse Models Using Automated Classification Michael Roach (The University of Tasmania) | Utilising the Two-Way Wave Equation: Reverse Time Pre-Stack Depth Migration Andrew Long (Petroleum Geo-Services, WA) | Subcritical Crack Growth in Rocks under Aqueous Environments Yoshitaka Nara (Hokkaido University, JAPAN) | 4D Pressure Pilot to Steer Well Spacing in Tight Gas Edwin Quint (Shell Development (Australia) Proprietary Limited, WA) | Shallow Geophysical and Hydrogeological Studies to Characterise Palaeochannel Properties, A Case Study from Tanami Desert, NT John Joseph (University of Adelaide, SA) |
| 16.00 | Instrument Forum Panel Discussion | A Rapid Algorithm for Self-Potential Data Inversion with Application to Mineral Exploration Salah Mehanee (Macquarie University, NSW) | A Wave Propagation Based Method for Improved Seismic Fracture Prediction Mu Luo (JGI Inc, JAPAN) | Elastic Properties of Shales with Respect to Silt Fraction Marina Pervukhina (CSIRO Petroleum, ARRC, WA) | Shale Gas Rock Properties Prediction using Artificial Neural Network Technique and Multi Regression Analysis, an Example from a North American Shale Gas Reservoir Reza Rezaee (Curtin University of Technology, WA) | High-Resolution Airborne Electromagnetic Surveying for Dryland Salinity Management: The Toolibin Lake SkyTEM Case Study, WA James Reid (Geoforce Pty Ltd, WA) |

Tuesday 20 November continues

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| 16.30 | Instrument Forum Panel Discussion | | NIP Tomography Inversion, A New Improved Method for Velocity Model Estimation: A Synthetic Data Example Mehrdad Soleimani-Monfared (Shahrood University of Technology, IRAN) | Laboratory Measurements of Stress-Induced Velocity Anisotropy in Unconsolidated Sands Don Sherlock (CSIRO Petroleum, WA) | Operational Considerations for Optimising Pressure Test Results using LWD Formation Tester Vanessa Lim (Woodside Energy Ltd, WA) | |
| 17.00 | | | Investigation of Overburden Heterogeneity Effects and their Removal through High Resolution Tomography and Prestack Depth Migration Mamoru Takanashi (Japan Oil, Gas and Metals National Corporation, JAPAN) | | Production Optimisation in Horizontal Wells by three- Phase Flow Quantification: Case Studies from Malaysia Jack Harfoushian (Schlumberger, WA) | |
| 17:30 | CLOSE OF SESSIONS | | | | | |
| 17:30 | HAPPY HOUR IN THE EXHIBITION - <i>Sponsored by Hess</i> | | | | | Pavilions 1 and 2 – Level 1 |
| 19:00 | CONFERENCE DINNER - <i>Sponsored by Shell Development (Australia) Proprietary Limited</i> | | | | | Bellevue Ballroom – Level 3 |

| WEDNESDAY 21 NOVEMBER 2007: DAY THREE | | | | | | |
|--|--|--|---|--|--|--|
| 07:15 | Chair and Speaker Breakfast | | | | | Ballroom Foyer – Level 3 |
| 08:00 | Registration | | | | | Central Foyer – Level 2 |
| | MINERALS 1.8 | MINERALS 2.5 | PETROLEUM 1.8 | PETROLEUM 2.5 | NEAR SURFACE 8 | GENERAL INTEREST 1 |
| Theme: | Crustal / Regional | Electrical | Time Lapse | Seismic Acquisition Forum | Environmental / Engineering | Hyperspectral |
| Venue: Chair: | Meeting Room 7 – Level 2 Ned Stolz (Gold Fields) | Meeting Room 8 – Level 2 Lisa Vella (TeckCominco) | Woodside Theatre (Meeting Room 2) – Level 2 Andre Gerhardt (Woodside Energy Ltd) | Meeting Room 1 – Level 2 Mike McLerie (Chevron Australia Pty Ltd) | Meeting Room 3 – Level 2 Greg Turner (Geoforce Pty Ltd) | Meeting Room 9 – Level 2 Paul Mutton (Southern Geoscience Consultants) |
| 08.30 | Minerals 1.8 Session <i>Sponsored by Geoscience Australia</i> | Session starts 09.00 | Session starts 09.00 | Seismic Acquisition Forum <i>Sponsored by Chevron Australia Pty Ltd</i> | KEYNOTE ADDRESS New Directions in Near Surface Seismic Refraction Methods Derecke Palmer (The University of New South Wales) | Case Study: Combining Hyperspectral Imaging with Airborne Geophysics for Mineral Exploration Carina Simmat (Geoforce Pty Ltd, WA) |
| | Opening up New Areas for Exploration in Queensland Kate Wilkinson (Geological Survey of Queensland) | | | | | |

Printed 14-11-2007 The program is provisional - please note that some changes can be expected as the Conference draws closer. Regular updates will be made to the website.

Wednesday 21 November continues

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| 09.00 | 3D Geological Mapping and Potential Field Modeling of West Arnhem Land, Northern Territory Richard Lane (Geoscience Australia, ACT) | Application of a New TEM Data Acquisition System Based on a HTS SQUID Magnetometer (SQUITEM) to Metal Exploration in Broken Hill Area Eiichi Arai (Japan Oil, Gas and Metals National Corporation, JAPAN) | Geophysical Imaging for CO₂ Monitoring of OBPP Kevin Dodds (CO2CRC/CSIRO Petroleum, WA) Presented by Milovan Urosevic | Seismic Acquisition Forum continues | Keynote continues | Mapping Regional Alteration Patterns Using Hyperspectral Drillcore Scanner Alan Mauger (Primary Industries & Resources, SA) |
| 09.30 | The Benefits of Wide Line Spaced Airborne Gravity Gradiometry on Regional Surveys Karel Zuidweg (Bell Geospace Limited, UK) Presented by Colm Murphy | Total Field EM for Highly Conductive Targets Andrew Duncan (Electromagnetic Imaging Technology Pty Ltd, WA) | Fundamental Seismic Parameters of Injected CO₂ Nasser Keshavarz Faraj Khah (Curtin University of Technology, WA) Presented by Brian Evans | | Is it Time to Re-Engineer: Near-Surface Seismic Refraction Methods? Derecke Palmer (The University of New South Wales) | Toward Coal Quality Estimation from Geophysical Logs Binzhong Zhou (CSIRO Exploration & Mining, Qld) |
| 10:00 | Morning Tea Break – Sponsored by Hess | | | | | Pavilions 1 and 2 – Level 1 |
| | MINERALS 1.9 | MINERALS 2.6 | PETROLEUM 1.9 | PETROLEUM 2.6 | NEAR SURFACE 9 | GENERAL INTEREST 2 |
| Theme: | Crustal / Regional | Electrical | Time Lapse | Seismic Acquisition Forum | Environmental / Engineering | Potential Fields |
| Venue: Chair: | Meeting Room 7 – Level 2 Roger Clifton (Northern Territory Geological Survey) | Meeting Room 8 – Level 2 Michael Asten (Flagstaff GeoConsultants) | Woodside Theatre (Meeting Room 2) – Level 2 Andre Gerhardt (Woodside Energy Ltd) | Meeting Room 1 – Level 2 Murray Richardson (Geoscience Australia) | Meeting Room 3 – Level 2 Gary Humpheys (Department of Water, WA) | Meeting Room 9 – Level 2 Peter Milligan |
| 10.30 | Sub-Basalt Imaging from Gravity Studies over the Deccan Volcanic Province of Central India Bijendra Singh (National Geophysical Research Institute, INDIA) | Looking Inside Pores: Polarization by Constrictivity of Pores Valeriya Zadorozhnaya (Council for Geoscience, SOUTH AFRICA) | Using 4D Seismic Data to Understand Production-Related Changes in Enfield, NWS Australia Megan Smith (Woodside Energy Ltd, WA) | Seismic Acquisition Forum <i>Sponsored by Chevron Australia Pty Ltd</i> | High Resolution Seismic Survey of the Proposed Beenyup Wastewater Injection Site Michael Sykes (Curtin University of Technology, WA) | Influence of Self-demagnetization Effect on Data Interpretation in Strongly Magnetic Environments Richard Krahenbuhl (Colorado School of Mines, USA) |
| 11.00 | “Worming” in New South Wales Yvette Poudjom Djomani (Geological Survey of NSW) | Six Years Experience with Offset Pole-Dipole and Other 3D IP Arrays Steve Collins (Arctan Services Pty Ltd, NSW) | The Role of Rock Physics Modelling for the Enfield 4D Seismic Angelika Wulff (Woodside Energy Ltd, WA) | | 3D Seismic Reflection Survey Design and Modelling at the Beenyup Waste Water Treatment Site, Western Australia Chris Semeniuk (Curtin University of Technology, WA) | Automatic Analysis of Aeromagnetic Images for Gold Exploration Eun-Jung Holden (University of Western Australia) |

Wednesday 21 November continues

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| 11.30 | Potential Field "Worms" and Models as the Basis of a 3D Tectonic Model of the Koonenberry Belt, North-Western NSW Bob Musgrave (Geological Survey of NSW) | Optimisation of Electrode Arrays used in 2D Resistivity Imaging Surveys Fouzan Alfouzan (Universiti Sains, MALAYSIA) | Land Seismic Acquisition Repeatability for Time-Lapse Monitoring of CO2 Sequestration Don Sherlock (CSIRO Petroleum, WA) | Continual Improvement in the Management of Health, Safety and Environment in Seismic Acquisition Peter Vaughan (Chevron Australia Pty Ltd, WA) | High Resolution Seismic Reflection and Radar for Hydrogeology: The Gngangara Mound, Perth Basin, Western Australia Brett Harris (Curtin University of Technology, WA) | A New Algorithm for the Seismo-Electrokinetic Effect Generated by Different Seismic Waves and its Application in a Small Area Valeriya Zadorazhnaya (Council for Geosciences, SOUTH AFRICA) |
| 12:00 | Lunch Break and Poster Presentations | | | | | Pavilions 1 and 2 – Level 1 |
| | MINERALS 1.10 | MINERALS 2.7 | PETROLEUM 1.10 | PETROLEUM 2.7 | NEAR SURFACE 10 | GENERAL INTEREST 3 |
| Theme: | Crustal / Regional | Potential Fields | Crustal / Regional | Acquisition | Environmental and Groundwater | Earthquakes and Seismicity |
| Venue: Chair: | Meeting Room 7 – Level 2 Terry McConnell (Fugro Airborne Surveys) | Meeting Room 8 – Level 2 Asmita Mahanta (BHP Billiton) | Woodside Theatre (Meeting Room 2) – Level 2 Andrew Lockwood (Woodside Energy Ltd) | Meeting Room 1 – Level 2 Milovan Urosevic (Curtin University of Technology) | Meeting Room 3 – Level 2 Tim Munday (CSIRO) | Meeting Room 9 – Level 2 Leonie Jones (Geoscience Australia) |
| 13.00 | Session starts 13.30 | The Amplitude / Phase Treatment of Full Tensor Gradiometry Des Fitzgerald (Intrepid Geophysics, Vic) | A Deep Seismic Reflection Survey of the Great Sumatra Earthquake Zone using Advanced Seismic Technology Martin Bayley (WesternGeco / Schlumberger, WA) | Increased Resolution and Penetration of Seismic Data from a Towed Dual-sensor Streamer Andrew Long (Petroleum Geo-Services) | KEYNOTE ADDRESS Speaker to be confirmed | Combined Use of SPAC, FK and HVSr Microtremor Survey Methods for Site Hazard Studies over the 2D Tamar Valley, Launceston, Tasmania Maxime Claproud (Monash University, Vic) |
| 13.30 | Innovative Imagery, Data Quality Controls, State-Wide Grid Merges David Robson (Geological Survey of NSW) | AAGD07: A New Absolute Datum for Australian Gravity and New Standards for the Australian National Gravity Database Ray Tracey (Geoscience Australia, ACT) | Crustal Thickness in Australia: Where, How and What For? Alexey Goncharov (Geoscience Australia, ACT) | The Contribution of Geophysical Surveys to Australia's Onshore Energy Security Program Murray Richardson (Geoscience Australia, ACT) | | An Active Fault in Southern Taiwan Detected Using Shallow Seismics and Ground Penetration Radar Robert Sun (National Chengkung University, TAIWAN) |
| 14.00 | Combining Passive and Active Seismic Data in Understanding the Terrane Structure of the Eastern Goldfields, Western Australia Anya Reading (University of Tasmania) Presented by Hugh Tassell | Commercial Gravity Operations – Modern GPS Surveying and Digital Gravity Meters Richard Lachapelle (Scintrex Limited, CANADA) | Using Airborne Gravity Data to Better Define the 3D Limestone Distribution at the Bwata Gas Field, Papua New Guinea Phil McInerney (Intrepid Geophysics, Vic) | Wide Azimuth Towed Streamer: Applications for Exploration as well as Development Gareth Williams (CGGVeritas, UK) | Joining the Dots: How Airborne Geophysics Helps Constrain Hydrogeological Models Richard Cresswell (CRC LEME/CSIRO Land and Water, Qld) | Seismicity in Northern Western Australia Myra Keep (The University of Western Australia) |
| 14:30 | Afternoon Tea Break | | | | | Pavilions 1 and 2 – Level 1 |

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Wednesday 21 November continues

| | MINERALS 1.11 | MINERALS 2.8 | PETROLEUM 1.11 | PETROLEUM 2.8 | NEAR SURFACE 11 | GENERAL INTEREST 4 |
|-----------------|---|--|---|---|---|---|
| Theme: | Crustal / Regional | Potential Fields | Rock Properties | Processing | Cavity and Karst Detection | Earthquakes and Seismicity |
| Venue: Chair | Meeting Room 7 – Level 2 David Howard (DOIR WA) | Meeting Room 8 – Level 2 Peter Fullagar (Fullagar Geophysics) | Woodside Theatre (Meeting Room 2) – Level 2 Angelika Wulff (Woodside Energy) | Meeting Room 1 – Level 2 | Meeting Room 3 – Level 2 Justin Anning (Geoforce Pty Ltd) | Meeting Room 9 – Level 2 Hugh Tassell (Geoscience Australia) |
| 15.00 | Constraining the Far-Field Stress State Near a Deep South African Gold Mine Amie Lucier (Stanford University, USA) | New Developments in Gravity Applications and Instruments Chris Nind (Scintrex Ltd, CANADA) | Evaluation of Tar Deposits using Neutron Tomography, Canning Basin, Western Australia Mike Middleton (BPC Limited, WA) | KEYNOTE ADDRESS Tadeusz Ulrych (University of British Columbia, CANADA) | Charters Towers SHARP Project – Assessment of Ground Penetrating Radar for the Location and Risk Analysis of Abandoned Mine Shafts Simon Williams (GBG Australia Pty Ltd, NSW) | A Unified Compilation of Anomalies in Plate Tectonics Shivaraman Ramaswamy (SRM University, INDIA) |
| 15.30 | The Tanami 3D Model – Incorporating the Results of the 2005 Tanami Seismic Survey Tony Meixner (Geoscience Australia, ACT) | Depth Estimation Using the Magnetic Power Spectrum Roger Clifton (Northern Territory Geological Survey, NT) | Neutron Imaging in South Africa Adds Value to Geosciences and Petrophysics Frikkie De Beer (NECSA, SOUTH AFRICA) | | Geophysical Characterization of Variable Limestone Terrains Tristan Campbell (Geoforce, WA) | A Fresh Insight into Earthquake Occurrences Ojas Mahapatra (SRM University, INDIA) |
| 16:00 | CONFERENCE OFFICIAL CLOSE | | | | | Riverside Theatre – Level 2 |
| 16:30 | HAPPY HOUR IN THE EXHIBITION - Sponsored by Fugro Group | | | | | Pavilions 1 and 2 – Level 1 |
| 17:45 | EXHIBITION CLOSES (at conclusion of the Happy Hour) | | | | | |

| THURSDAY 22 NOVEMBER 2007: DAY FOUR | | | | | | |
|--|---|--|--|---|--|--------------------------|
| 07:15 | Chair and Speaker Breakfast | | | | | Meeting Room 5 – Level 2 |
| 08:00 | Registration | | | | | Central Foyer – Level 2 |
| | MINERALS 1.12 | | | WORKSHOPS | | |
| Theme: | AEM | | | | | |
| Venue: Chair: | Meeting Room 4 – Level 2 Bill Peters (Southern Geoscience Consultants) | | | Venues as indicated | | |
| 08.30 | Airborne Electromagnetic Systems James Macnae (RMIT University, Vic) | | | D. 3D Geology Modelling and Forward/Inverse Gravity/Magnetics Modelling Meeting Room 9 – Level 2 | | |

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Thursday 22 November continues

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| 09.00 | Spectrem 2000 AEM as a Mapping and Discovery System Alan King (ATD-Geosciences Resource Group, SOUTH AFRICA) | E. Petroleum Electromagnetics Workshop Meeting Room 10 – Level 2 | |
| 09.30 | Geometrical Constraints for the Detection of Perfect Conductors Adam Smiarowski (University of Toronto, CANADA) Presented by James Macnae | F. CORE Workshop – Giant Gas Fields of the North West Shelf, Australia Government of WA, Perth Core Library, 37 Harris St, Carlisle | |
| 10:00 | Morning Tea Break | Northern Foyer – Level 2 | Southern Foyer – Level 2 |
| | MINERALS 1.13 | PETROLEUM 1.12 | WORKSHOPS |
| Theme: | AEM | Anisotropy / Multicomponent | Venues as indicated |
| Venue: Chair: | Meeting Room 4 – Level 2 Terry Crabb (Inco Resources) | Woodside Theatre (Meeting Room 1/2) – Level 2 Boris Gurevich (Curtin University of Technology) | D. 3D Geology Modelling and Forward/Inverse Gravity/Magnetics Modelling Meeting Room 9 – Level 2 |
| 10.30 | Airborne Measurements of Natural Source EM Induction Responses to Study Shallow Sursurface Features – Results from 3-D Numerical Calculations John Joseph (University of Adelaide, SA) | Session starts 11.00 | E. Petroleum Electromagnetics Workshop Meeting Room 10 – Level 2 |
| 11.00 | Bathymetry and Sediment Depth investigation in Broken Bay using a Prototype AEM Time Domain System (SeaTEM) Julian Vrbancich (Defence Science & Technology Organisation, NSW) | Anisotropic PP and PS v Prestack Depth Migration of 4C Seismic Data: Pamperi, Trinidad Tony Johns (WesternGeco, USA) Presented by Carmen Vito | F. CORE Workshop - Giant Gas Fields of the North West Shelf, Australia Government of WA, Perth Core Library, 37 Harris St, Carlisle |
| 11.30 | A New Helicopter Time Domain AEM System for Shallow Seawater Geophysical Surveying – Static Trials Graham Boyd (Geosolutions Pty Ltd, SA) | Applications of Non-Rigid-Matching to 3D Converted-Wave (PS) Imaging Tony Johns (WesternGeco, USA) | |
| 12:00 | Lunch Break | Central Foyer – Level 2 | |
| | MINERALS 1.14 | PETROLEUM 1.13 | WORKSHOPS |
| Theme: | AEM | Anisotropy / Multicomponent | Venues as indicated |
| Venue: Chair: | Meeting Room 4 – Level 2 Steve Collins (Arctan Services) | Woodside Theatre (Meeting Room1/2) – Level 2 Boris Gurevich (Curtin University of Technology) | D. 3D Geology Modelling and Forward/Inverse Gravity/Magnetics Modelling Meeting Room 9 – Level 2 |
| 13.00 | Analysing Frequency-Domain EM Data for Highly Conductive Targets Daniel Sattel (EM Solutions LLC, USA) | Fracture-Induced Anisotropy in Sand Reservoirs Houshang Mansouri (NIOC's Oil Exploration Operations Company, IRAN) | E. Petroleum Electromagnetics Workshop Meeting Room 10 – Level 2 |
| 13.30 | Calibration of Time Domain AEM Systems Using a Ground Loop Aaron Davis (RMIT University, Vic) | Analysis of Converted Refractions for Shear Statics and Near-Surface Characterisation Alan Meulenbroek (Velseis Pty Ltd, Qld) | F. CORE Workshop - Giant Gas Fields of the North West Shelf, Australia Government of WA, Perth Core Library, 37 Harris St, Carlisle |
| 14.00 | Measuring the Waveform of Time Domain AEM Systems Using a Ground Loop Aaron Davis (RMIT University, Vic) | Polarisation Analysis of Ocean Bottom 3C Sensor Data Bjorn Olofsson (CGGVeritas, NORWAY) | |

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Thursday 22 November continues

| 14:30 | | Northern Foyer – Level 2 | | Southern Foyer – Level 2 | |
|------------------|--|---|--|--------------------------|-----------------------------------|
| | MINERALS 1.15 | PETROLEUM 1.14 | WORKSHOPS | | |
| Theme: | AEM | Non-Seismic | Venues as indicated | | |
| Venue: Chair: | Meeting Room 4 – Level 2 Daniel Sattel (EM Solutions) | Woodside Theatre (Meeting Room 1/2) – Level 2 Kathlene Oliver (Fugro Ground Geophysics) | D. 3D Geology Modelling and Forward/Inverse Gravity/Magnetics Modelling Meeting Room 9 – Level 2 E. Petroleum Electromagnetics Workshop Meeting Room 10 – Level 2 F. CORE Workshop - Giant Gas Fields of the North West Shelf, Australia Government of WA, Perth Core Library, 37 Harris St, Carlisle | | |
| 15.00 | Processing and Inversion of SkyTEM Data for High Resolution Hydrogeophysical Surveys Esben Auken (University of Aarhus, DENMARK) | 4D Representation of Deep Ocean Controlled Source Electromagnetic Data Brett Harris (Curtin University of Technology, WA) | | | |
| 15.30 | High-Resolution Near Surface Airborne Electromagnetics – SkyTEM Survey for Uranium Exploration at Pells Range, WA James Reid (Geoforce Pty Ltd, WA) | Gravity and Magnetic Modelling of the Southern Northland Basin, New Zealand Brodie Klue (The University of Auckland, NZ) | | | |
| 16.00 | Enhancing the Resolution of the Subsurface by Joint Inversion of X- and Z-Component SkyTEM Data Esben Auken (University of Aarhus, DENMARK) | Target Delineation using Full Tensor Gravity Gradiometry Data Colm Murphy (Bell Geospace Limited, UK) | | | |
| 16.30 | Calculation of a Depth Correction Factor for the S-Layer Differential Transform Magdel Combrinck (Geotech Airborne Ltd, SOUTH AFRICA) | An Insight Into the Walton Basin, Offshore Jamaica: A Falcon® Perspective Peter Nicholls (Gippsland Offshore Petroleum Ltd, Vic) | | | |
| 17.00 | CLOSE OF SESSIONS | | | | |
| 17.00 | HAPPY HOUR - Sponsored by Southern Geoscience Consultants | | | | Bellevue Ballroom Foyer – Level 2 |

FRIDAY 23 NOVEMBER 2007: POST CONFERENCE

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| | WORKSHOPS H. EAGE Education Tour 1 - Seismic Multiple Removal Techniques: past, present and future Meeting Room 4 – Level 2 | ASEG/PESA GOLF DAY Coach transport departs 09.00 | OPTIONAL TOURS / SAILING REGATTA 14.00 – 18.00 |
| | F. CORE Workshop - Giant Gas Fields of the North West Shelf, Australia Government of WA, Perth Core Library, 37 Harris St, Carlisle | | |