

# Final Program

## Day 1 Monday, 15 September 2008

Sponsored by: Primary Industries & Resources SA

0700 – 0800	<b>Authors Breakfast</b> ( <i>Bayside 103</i> )		
0830 – 1030	<b>PLENARY SESSION 1: INDUSTRY – PETROLEUM EXPLORATION, MARKETS AND DELIVERY IN EASTERN AUSTRALASIA</b> ( <i>Bayside Auditorium</i> ) <i>Session Chairs: B Goldstein, PIRSA, C Foster, Geoscience Australia</i>		
0830 – 0840	EABS III Conference Opening: Energy security for the 21st century – <b>C Foster</b> , <i>Geoscience Australia, Chair, EABS III Organising Committee</i>		
0840 – 0900	Opening Address – <b>The Hon M Ferguson AM, MP</b> , <i>Minister for Resources and Energy, Minister for Tourism</i>		
0900 – 0930	Comparative geological setting of conventional oil and gas fields and CSG resources in the Surat/Bowen Basin, Queensland <b>R Willink</b> , <i>Origin Energy</i>		
0930 – 1000	New Zealand – current exploration trends and developments – <b>J Anderson</b> , <i>OMV New Zealand Limited</i>		
1000 – 1030	PNG – exploration trends, discoveries and production – <b>I Longley</b> , <i>Oil Search Limited</i>		
1030 – 1100	<b>MORNING TEA</b>		
<b>CONCURRENT SESSIONS</b> 1100 – 1215	<b>TECHNICAL SESSION 1: Coal Seam Gas – Overview</b> ( <i>Bayside Auditorium</i> ) <i>Sponsored by: Santos Ltd</i> <i>Session Chairs: S Kelemen, S Taylor, Santos</i>	<b>TECHNICAL SESSION 2: Cooper Basin Symposium 1</b> ( <i>Bayside 102</i> ) <i>Session Chair: S McIntyre, PetroRA</i>	<b>TECHNICAL SESSION 3: New Zealand – Overview</b> ( <i>Bayside 103</i> ) <i>Session Chair: C Uruski, GNS</i>
1100 – 1125	The increasing significance of coal seam gas in eastern Australia <b>G Baker, S Slater, RLMS</b>	A brief history of exploration in the Cooper Basin, South Australia <b>E Alexander, PIRSA</b>	Basin and petroleum systems analysis of the West Coast region, South Island, New Zealand – <b>J Beggs, GeoSphere Ltd, F Ghisetti, TerraGeologica, A Tulloch, GNS Science</b>
1125 – 1150	Coal seam methane potential, resources and exploration targets in the Sydney-Gunnedah Basin, Australia <b>A Scott, Altuda Energy Corporation, D Hamilton, Hamilton Geosciences LLC, A Mantaring, S Cozens, Department of Primary Industries, D Balin, Altuda Energy Corporation</b>	Acreage release South Australia and Queensland <b>T Hill, PIRSA</b>	Assessment of oil and gas reserves discovered within the Taranaki Basin and potential undiscovered reserves <b>C Skinner, Victoria University of Wellington</b>
1150 – 1215	A model for gas distribution in coals of the Lower Hunter Sydney Basin <b>S Thomson, CoalBed Concepts Pty Ltd, P Hatherly, University of Sydney, S Hennings, Northwest Corporation, J Sandford, Xstrata Coal</b>	Exploration and production updates – Santos <b>P Vincent, Santos</b>	A new generation of digital structure and facies maps for Taranaki Basin: progress towards a '4D Taranaki model' <b>M Arnot, J Baur, K Bland, H Bushe, R Funnell, B Ilg, C Jones, P King, B Leitner, M Massey, M Milner, H Morgans, L Roncaglia, H Zhu, GNS Science</b>
1215 – 1315	<b>LUNCH BREAK (Poster Session 1)</b>		
<b>CONCURRENT SESSIONS</b> 1315 – 1455	<b>TECHNICAL SESSION 4: Frontiers – Overview</b> ( <i>Bayside Auditorium</i> ) <i>Session Chairs: N Kuszniir, University of Liverpool, J Totterdell, Geoscience Australia</i>	<b>TECHNICAL SESSION 5: Cooper Basin Symposium 2</b> ( <i>Bayside 102</i> ) <i>Session Chair: T Hill, PIRSA</i>	
1315 – 1340	New insights into the evolution of the Lord Howe Rise region (Capel and Faust basins), offshore Eastern Australia, from terrane and geophysical data analysis <b>M Norvick, University of Melbourne, R Langford, T Hashimoto, N Rollet, K Higgins, M Morse, Geoscience Australia</b>	Exploration and production updates – Cooper Energy <b>M Scott, Cooper Energy</b>	
1340 – 1405	Reconstructing the junction between Panthalassa and Tethys since the Early Cretaceous <b>M Seton, D Müller, University of Sydney</b>	Exploration and production updates – Beach Petroleum <b>M Altmann, Beach Petroleum</b>	
1405 – 1430	Late Cretaceous-Paleocene Evolution of the East Gondwana Margin, a new dynamic model for the formation of marginal basins <b>P Rey, D Müller, University of Sydney</b>	Exploration and production updates – Adelaide Energy <b>B Fawcett, Adelaide Energy</b>	
1430 – 1455	The Intra-CONTinental BasinS (ICONS) atlas – applications in eastern Australia <b>C Heine, D Müller, University of Sydney</b>	Exploration and production updates – Stuart Petroleum <b>B Frears, Stuart Petroleum</b>	
1455 – 1525	<b>AFTERNOON TEA</b>		

**CONCURRENT SESSIONS**  
1525 – 1705

**TECHNICAL SESSION 6: Frontiers – New Zealand and Tasman Sea** (*Bayside Auditorium*)  
*Session Chairs: R Sykes, GNS, D Müller, University of Sydney*

1525 – 1550 Exploring the greater Taranaki Basin north of the established hydrocarbon fairway  
**K Bierbrauer, T Herdy, A Rek, K Mills,**  
*Origin Energy*

1550 – 1615 The petroleum potential of the offshore Canterbury Basin: insights from petroleum systems modelling  
**R O'Leary, W Mogg,** *Origin Energy*

1615 – 1640 Capel and Faust basins – preliminary assessment of an offshore deepwater frontier region  
**T Hashimoto, N Rollet, K Higgins, G Bernardel, R Hackney,** *Geoscience Australia*

1640 – 1705 Mellish Rise and adjacent deepwater plateaus of northeast Australia: new evidence for continental basement from Cenozoic micropalaeontology and sedimentary geology  
**K Hoffmann,** *Geological Survey of Queensland, N Exon, Australian National University, P Quilty, University of Tasmania, C Findlay, Canberra*

**TECHNICAL SESSION 7: Cooper Basin Symposium 3** (*Bayside 102*)  
*Session Chair: E Alexander, PIRSA*

Exploration and production updates  
– Victoria Petroleum  
**J Kopcheff,** *Victoria Petroleum*

**TECHNICAL SESSION 8: Papua New Guinea Case Studies** (*Bayside 103*)  
*Session Chairs: D Holland, InterOil S Wood, Oil Search*

Structural exploration in the Papua New Guinea Fold Belt  
**K Hill, K Bradey, J Iwanec, N Wilson,**  
*Oil Search Ltd, K Lucas, Queen's University*

Kutubu oil field, Papua New Guinea – a 350 MMBL fold belt classic  
**K Bradey, K Hill, D Lund, N Williams, T Kivior, N Wilson,** *Oil Search Limited*

Inversion tectonics and the structural development of the Elk/Antelope gas field, Papua New Guinea  
**A Goldberg, D Holland,** *InterOil Australia*

Glaucanite ages from Late Cretaceous reservoir sandstones of the Papuan Basin  
**H Zwingmann, T Allan, K Liu, CSIRO Petroleum, D Holland, InterOil Australia, D Leech,** *Cue Energy Resources*

1715 – 1915 **WELCOME RECEPTION, Exhibition and Poster Area** *Sponsored by: Beach Petroleum*

## Day 2 Tuesday, 16 September 2008

0830 – 1100 **PLENARY SESSION 2: EMERGING ISSUES – ENERGY AND ENVIRONMENT** (*Bayside Auditorium*) *Sponsored by: Sydney Gas*  
*Session Chairs: A Lucas, M Harper, Sydney Gas*

0830 – 0900 The importance of natural gas as a future clean energy source for Eastern Australia – **B Robinson,** *APPEA*

0900 – 0930 Putting carbon back underground: carbon capture and storage research and deployment – **P Cook,** *CO2CRC*

0930 – 1000 Australia's hot rocks plays – **B Goldstein, T Hill, PIRSA, A Budd, F Holgate,** *Geoscience Australia, M Malavazos, PIRSA*

1000 – 1030 Renewable energy to tackle climate change – **R Corkish,** *University of NSW*

1030 – 1100 Australia's reporting of carbon emissions and carbon reduction scheme – **M Williamson,** *Wiltax Consulting Pty Ltd*

### MORNING TEA

1130 – 1245 **TECHNICAL SESSION 9: PESA EDUCATION FORUM** (*Bayside Auditorium*) *Sponsored by: Origin Energy*  
*Session Chair: B Goldstein, PIRSA*

Geoscience education – starting early with TESEP – **T Loutit,** *FrOG Tech Pty Ltd and PESA Federal*

Towards a national geoscience education system – Invigorating university geoscience – **T Powell,** *Australian Geoscience Council*

### LUNCH BREAK (Poster Session 2)

**CONCURRENT SESSIONS**  
1345 – 1525

**TECHNICAL SESSION 10: Carbon Capture and Storage 1** (*Bayside Auditorium*)  
*Sponsored by: Macquarie Generation*  
*Session Chair: S Ireland, Macquarie Generation*

1345 – 1410 Carbon dioxide storage in Australia – the current state of play  
**W Muir,** *MBA Consultants*

1410 – 1435 Aquifers and coal: storing Queensland's carbon dioxide  
**J Draper,** *Geological Survey of Queensland*

1435 – 1500 CO<sub>2</sub> storage in potential and mixed gas conditions of Eastern Australian coals  
**A Saghafi,** *CSIRO*

1500 – 1525 Review of geological storage opportunities for carbon capture and storage (CCS) in Victoria  
**C Gibson-Poole, S Edwards,** *CO2CRC, The University of Adelaide, R Langford, CO2CRC, Geoscience Australia, B Vakarelov, CO2CRC, The University of Adelaide*

**TECHNICAL SESSION 11: Geothermal Energy** (*Bayside 102*)  
*Sponsored by: Granite Power*  
*Session Chair: C Stafford, Granite Power*

Pre-competitive geoscience for geothermal exploration and development in Australia: Geoscience Australia's onshore energy security program and the geothermal energy project – **A Budd, F Holgate, E Gerner, B Ayling, A Barnicoat,** *Geoscience Australia*

Geothermal systems assessment – understanding risks in geothermal exploration in Australia  
**G Cooper,** *Hot Dry Rocks Pty Ltd, G Beardsmore, *Hot Dry Rocks and Monash University**

Analysis and management of seismic risks associated with engineered geothermal system operations in South Australia  
**C Morelli,** *The University of Adelaide, M Malavazos, PIRSA*

Forward prediction of spatial temperature variation from 3D geology models  
**H Gibson,** *Intrepid Geophysics, K Stüewe, Karl-Franzens-University, R Seikel, D Fitzgerald, Intrepid Geophysics, P Calcagno, BRGM, D Argast, P McInerney, Intrepid Geophysics, A Budd, *Geoscience Australia**

1525 – 1555

**AFTERNOON TEA**

**CONCURRENT SESSIONS**  
1555 – 1735

**TECHNICAL SESSION 12: Gippsland and Otway Basin Case Studies** (*Bayside Auditorium*)  
*Session Chairs: P Lock, Petrel Pty Ltd, T Bernecker, Geoscience Australia*

**TECHNICAL SESSION 13: Queensland Symposium** (*Bayside 102*)  
*Session Chair: N Williams, President, PESA – QLD/NT Branch and Scotford & Fennessy*

**TECHNICAL SESSION 14: Carbon Capture and Storage 2** (*Bayside 103*)  
*Sponsored by: Schlumberger Carbon Services*  
*Session Chairs: H Holl, A Garnett Schlumberger Carbon Services*

1555 – 1620

Basker Field, Gippsland Basin: assessing reservoir connectivity with the aid of complementary technologies – **B Messent, L Farmer, Anzon Australia Pty Ltd**

Update on Bowen-Surat conventional oil and gas exploration  
**C Gilbert, Origin Energy**

Clean coal technologies – challenges and opportunities for eastern Australia  
**L Gurba, CO2CRC, University of New South Wales**

1620 – 1645

First order sealing and hydrocarbon migration processes, Gippsland Basin, Australia; implications for CO<sub>2</sub> geosequestration – **G O'Brien, TR Tingate, L Goldie-Divko, M Harrison, R Skladzien, GeoScience Victoria, C Boreham, Geoscience Australia, K Liu, CSIRO Petroleum, N Arian, The University of Adelaide**

The Canaway Ridge CSG play  
**S Taubert, Bow Energy**

Evaluating seal capacity of caprocks and intraformational barriers for the geosequestration of CO<sub>2</sub>  
**R Daniel, J Kaldi, CO2CRC, The University of Adelaide**

1645 – 1710

Unravelling the complex structural history of the Penola Trough – revealing the St George Fault – **P Boulton, GINKO ENP GNG, P Lyon, Shell Holland, B Camac, Beach Petroleum, S Hunt, Santos Ltd, H Zwingman, CSIRO Petroleum**

Exploration and production updates – Queensland Gas Company  
**T Ross, Queensland Gas Company**

CO<sub>2</sub>-related diagenesis in Tuna Field, Gippsland Basin: a natural analogue study for geosequestration  
**U Schacht, CO2CRC, The University of Adelaide**

1710 – 1735

Introducing the Jacaranda Ridge Sandstone: a new play in the Penola Trough, Otway Basin, Australia  
**B Camac, Beach Petroleum, P Boulton, GINKO ENP GNG**

Structural history and present stress from seismic in the Bowen-Surat, Cooper-Eromanga and Gippsland basins  
**J Davidson, Predrill Stresses International Pty Ltd**

Baseline study on subsurface petroleum occurrences at the CO2CRC Otway Project, Western Victoria  
**C Boreham, J Chen, Z Hong, Geoscience Australia**

1900 – 2300

**GALA DINNER, Parkside Ballroom B** *Sponsored by: Macquarie Energy and Norwest Hydrocarbons*

## Day 3 Wednesday, 17 September 2008

0830 – 1030

**PLENARY SESSION 3: SCIENCE AND NEW TECHNOLOGIES** (*Bayside Auditorium*)  
*Session Chairs: J Blevin, Frog Tech, B Bradshaw, Geoscience Australia*

0830 – 0910

Mapping Southern Australian and Tasman Sea rifted margin crustal thickness and ocean-continent transition using satellite gravity inversion – **N Kusznir, University of Liverpool**

0910 – 0950

Controls on petroleum systems in deltaic systems and super-systems – a global perspective – **P McCabe, CSIRO**

0950 – 1030

From microwatts to megawatts – high heat production granites as geothermal heat sources  
**B Chappell, University of Wollongong, D Wyborn, Geodynamics Ltd**

1030 – 1115

**MORNING TEA (Poster Session 3)**

**CONCURRENT SESSIONS**  
1115 – 1230

**TECHNICAL SESSION 15: Onshore Case Studies** (*Bayside Auditorium*)  
*Session Chairs: J Draper, Geological Survey of Queensland, P Cooney, Red Sky Energy*

**TECHNICAL SESSION 16: Frontiers – Southern Margin** (*Bayside 102*)  
*Session Chair: M Norvick, University of Melbourne*

**TECHNICAL SESSION 17: Bass Basin Case Studies** (*Bayside 103*)  
*Session Chairs: G O'Brien, P Tingate GeoScience Victoria*

1115 – 1140

Petroleum potential of the Easternmost Surat Basin in Queensland  
**R Day, Pure Energy Resources Ltd, P Bubendorfer (Bow Energy Ltd), B Pinder, Arrow Energy NL**

Mid-Late Cretaceous organic-rich rocks from the eastern Bight Basin: implications for prospectivity  
**J Totterdell, H Struckmeyer, C Boreham, C Mitchell, B Bradshaw, Geoscience Australia, E Monteil, TimeMatters Biostratigraphic Services**

Modelling petroleum generation, migration and accumulation in the central Bass Basin, Tasmania, Australia  
**N Arian, The University of Adelaide, P Tingate, GeoScience Victoria, R Hillis, The University of Adelaide**

1140 – 1205

Subtidal origin of the Hawkesbury Sandstone, Middle Triassic, Sydney Basin  
**P McCabe, CSIRO**

Australian-antarctic rifting  
**J Whittaker, D Müller, University of Sydney, A Goncharov, Geoscience Australia**

Palaeo-oil zones In Eastern View Coal Measures reservoirs from the Bass Basin  
**R Kempton, P Eadington, K Liu, S Gong, H Volk, CSIRO Petroleum, C Boreham, Geoscience Australia**

1205 – 1230

Birkhead Formation chronostratigraphy on the Murrumbidgee Horst, South Australia – identifying and correlating reservoirs and seals  
**S Gallagher, G Wood, N Lemon, Santos Ltd**

A minimum strain approach to reducing the structural uncertainty in poor 2D seismic data, Gambier Embayment, Otway Basin, Australia – **P Boulton, GINKO ENP GNG, B Freeman, Badley Geoscience Ltd, G Yielding, Badley Geoscience Ltd, S Menpes, Essential Petroleum, L Diekman, Energetica Resources**

The structural and sedimentary histories and hydrocarbon potential of the Pelican and Dondu troughs, Bass Basin  
**D Leech, Cue Energy Resources, C Kernick, ENI-International, A Iwaniew Cue Energy Resources**

1230 – 1330

**LUNCH (Poster Session 4)**

CONCURRENT  
SESSIONS  
1330 – 1445

**TECHNICAL SESSION 18: Coal Seam Gas Case Studies** (*Bayside Auditorium*)  
*Sponsored by: MBA Petroleum Consultants and Greenhouse Gas Storage Solutions*  
*Session Chair: W Muir, MBA Petroleum Consultants*

1330 – 1355 Coal seam gas distribution in the Hunter Coalfield, Sydney Basin  
**K Pinetown, M Faiz, A Saghafi, L Stalker, J van Holst, CO2CRC, CSIRO**

1355 – 1420 Investigation of the relationship between gas content, composition and permeability in coal seams, and the structural and geological history of the Bohena Trough, Gunnedah Basin  
**L Budd, University of NSW, A Edgar, Eastern Star Gas Ltd**

1420 – 1445 Coal seam gas in eastern Australia – role of microbial activity and burial history  
**M Faiz, P Hendry, D Li, CSIRO**

1445 – 1515 **AFTERNOON TEA**

1515 – 1545 **CLOSING CEREMONY AND AWARDS** (*Bayside Auditorium*)

1545 – 1715 **FAREWELL DRINKS** (*Bayside Foyer, Level 1*)

**TECHNICAL SESSION 19: Onshore Frontiers** (*Bayside 102*)  
*Sponsored by: Orion Petroleum Limited*  
*Session Chair: G Allinson, Orion Petroleum Ltd*

Evaluating the hydrocarbon potential of the Western Cooper/Eromanga neighbourhood: can 'old' oil be preserved?  
**T Bernecker, Geoscience Australia**

Sub-thrust plays along the Hunter-Mooki fault system, northern NSW  
**A Mantaring, NSW Department of Primary Industries**

Structural modelling, tectonostratigraphic evolution and basin development model of the Woolsthorpe-Cobden Area, western Victoria, Australia  
**Minarwan, M Hall, Monash University**

**TECHNICAL SESSION 20: New Zealand Case Studies** (*Bayside 103*)  
*Session Chair: G Browne, GNS Science*

Influence of depositional environment and early diagenesis on molecular maturity parameters of coals – an example from the Taranaki Basin  
**H Volk, CSIRO Petroleum, S George, Macquarie University, R Sykes, GNS Science**

Organofacies controls on the oil potential of coaly source rocks in the Late Cretaceous North Cape Formation, Taranaki Basin  
**R Sykes, I Raine, GNS Science**

The Carrack-Caravel Prospect complex – a possible sleeping giant in the deepwater Canterbury Basin, New Zealand  
**W Mogg, K Aurisch, R O'Leary, G Pass Origin Energy**

## Posters

**PO1** Provenance of Eocene Latrobe Group Sandstones in the Tuna Field, Gippsland Basin  
**U Schacht, CO2CRC, University of Adelaide**

**PO2** Distribution, Dating and Origin of Magmatism in the Bight and Eucla Basins  
**A Schofield, J Totterdell, Geoscience Australia**

**PO3** A New Stratigraphic / Structural Interpretation Helps Focus Exploration in the Poolowanna Trough, Eromanga Basin, South Australia  
**P Boulton, GINKO ENP GNG**

**PO4** Miocene – Pliocene Paleogeographic Reconstructions of Eastern Taranaki Basin, New Zealand  
**A Vonk, Chevron Australia Pty Ltd, P Kamp, University of Waikato**

**PO5** Oil-Oil and Oil-Source Rock Correlations for Selected Oils and Gas Condensates from Several New Zealand Basins  
**K-G Zink, R Sykes, GNS Science**

**PO6** Paleogeographic Reconstructions for the Oligocene Transition from Extension to Contraction along the Eastern Taranaki Basin Margin, New Zealand  
**A Tripathi, P Kamp, University of Waikato**

**PO7** Fault Dilatation Behaviour in the Kupe Field, Taranaki Basin, Offshore New Zealand  
**B Ilg, S Ellis, M Arnot, A Nicol, GNS Science**

**PO8** The Application of New Geophysical Data to the Study of the Capel-Faust Basins, Lord Howe Rise  
**K Higgins, G Bernadel, R Hackney, T Hashimoto, G Logan, P Petkovic, N Rollet, Geoscience Australia**

**PO9** Geophysical Characterisation of the Elk Reservoir, Gulf Province, Papua New Guinea  
**J Storey, InterOil Australia, S Sioni, InterOil E&P Limited, M Kiele, InterOil E&P Limited**

**PO10** Lacustrine Petroleum Systems in the Papua New Guinea Foreland  
**S Wood, Oil Search Limited, H Volk, CSIRO, N Sherwood, CSIRO, C Boreham, Geoscience Australia**

**PO11** The Galilee Basin – A Potential CO<sub>2</sub> Storage Site in Queensland  
**S Edwards, Ainsworth, B Vakarelov, J Kaldi University of Adelaide**

**PO12** Sediment Stacking Patterns in Coal Measure Sequences: Examples from the Permian Bowen Basin  
**J Esterle, GeoGAS Pty Ltd, R Sliwa, Intergrated Geoscience Pty Ltd,**

**PO13** Bowen Basin Structural Geology 2007 – A New Interpretation Based on Airborne Geophysics  
**R Sliwa, Integrated Geoscience Pty Ltd, S Hamilton, J Hodgkinson, J Draper, Queensland Department of Mines and Energy**

**PO14** Hydrocarbon Potential of the Northern Extension of the Oaklands Basin, Griffith, NSW  
**M Fahey, NSW Department of Primary Industries**

**PO15** Re-Evaluation of Structure and Sedimentary Packages in the Eastern Surat Basin  
**R Sliwa, Intergrated Geoscience Pty Ltd, J Esterle, GeoGAS Pty Ltd**

**PO16** Developing Carbonate Depositional Models in the Eastern Papuan Basin and the Impact on Prospectivity  
**D Holland, InterOil Australia**

## Poster Details

Access to the poster display area within the Sydney Convention & Exhibition Centre is open from 0730 hours on MONDAY, 15 SEPTEMBER 2008.

All posters should be in place by 0830 hours, prior to the commencement of the Conference Opening Ceremony. Posters are to be removed after 1515 hours (afternoon tea) on WEDNESDAY, 17 SEPTEMBER 2008. No responsibility will be taken for posters left after 1700 hours on this day.