

Co-hosted by:  
THE AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS  
and THE PETROLEUM EXPLORATION SOCIETY OF AUSTRALIA



# Future discoveries are in our hands

21st International Geophysical Conference and Exhibition

Sydney Convention & Exhibition Centre, Darling Harbour, Sydney, Australia

**22–26 August 2010**

[www.aseg-pesa2010.com.au](http://www.aseg-pesa2010.com.au)



REGISTRATION BROCHURE

# Acknowledgements

The Organising Committee is grateful to the following, who at the time of printing, have given their support in many different ways:

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OIL SEARCH LIMITED



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# Future discoveries are in our hands

21st International Geophysical Conference and Exhibition

## Invitation

It is with pleasure that we invite you to register for the 21st Australian Society of Exploration Geophysicists (ASEG) Conference and Exhibition, to be held in partnership with the Petroleum Exploration Society of Australia (PESA). The conference and exhibition will be held at the Sydney Convention & Exhibition Centre in New South Wales from 22 – 26 August 2010.

The conference theme: 'FUTURE DISCOVERIES ARE IN OUR HANDS' reflects our belief that well-applied geophysical strategies will be needed to find the next world-class resources and contribute to new wealth creation. The collaboration of two of Australia's premier geoscientific bodies promises to make this conference a stand out forum for the resources geophysics community. In this context we aim to deliver an informative and thought provoking conference and exhibition.

Our conference theme provides a challenge to our profession to demonstrate how we have responded to the world financial situation and achieved major commercial and technical outcomes for our industries. This conference gives you; the leading professionals, explorers, managers, educators and service providers, the opportunity to be part of this discussion.

The conference organising committee will build on the experience of the previous 20 conferences and deliver one of the world's leading resource exploration geophysics forums.

In addition to participating in the conference, we hope you will take the time to enjoy the natural and cultural attractions that Sydney provides.

**Mark Lackie (ASEG) and Phillip Cooney (PESA)**  
Co-Chairs



## Organising Committee

- Phillip Cooney – Co-Chair
- Mark Lackie – Co-Chair
- Bin Guo
- Roger Henderson
- Pat Hillsdon
- John Peacock
- David Pratt
- David Robson
- Phillip Schmidt
- Keith Skipper
- Mike Smith
- Max Williamson



## Who Will Attend?

In line with recent conferences, the ASEG-PESA 2010 Conference & Exhibition is expected to attract approximately 700 delegates from a variety of geophysical fields and a wide range of countries.

### There will be strong representation from the following fields:

- Petroleum geophysics – acquisition, processing and interpretation
- Minerals geophysics – acquisition, processing and interpretation
- Industrial minerals geophysics
- Project generation and greenfields geophysics
- Geothermal geophysics
- Groundwater & environmental science
- Coal seam gas geoscience
- Extractive coal geoscience
- Research centre initiatives
- Government legislation, regulation & initiatives
- University students and postgraduates
- Carbon capture and storage
- Geophysics in unconventional reservoirs and play types

# Register Online @ [www.aseg-pesa2010.com.au](http://www.aseg-pesa2010.com.au)

## Trade Exhibition

The trade exhibition will be held in Hall 5 of the Sydney Convention & Exhibition Centre, Darling Harbour. Morning tea, lunch, afternoon tea and the Welcome Reception will be served in this area to enable you to visit all exhibitors whose support of the event is much appreciated.

Companies interested in exhibiting or sponsorship opportunities at ASEG-PESA 2010 are welcome to contact the Secretariat via phone +612 9431 8699 or email [aseg-pesa2010@conferenceaction.com.au](mailto:aseg-pesa2010@conferenceaction.com.au)

### The anticipated exhibition open hours will be:

Sunday, 22 August 2010 (Welcome Reception)	1800 – 2000 hours
Monday, 23 August 2010	0800 – 1830 hours
Tuesday, 24 August 2010	0800 – 1830 hours
Wednesday, 25 August 2010	0800 – 1600 hours

## Conference Secretariat



### CONFERENCE ACTION

*Shaping Events*

For all enquiries please contact:

Ms Nell Harrison

ASEG-PESA 2010 Conference Secretariat

Conference Action Pty Ltd

PO Box 576, Crows Nest NSW 1585 Australia

TEL: +61 2 9431 8699

FAX: +61 2 9431 8677

EMAIL: [aseg-pesa2010@conferenceaction.com.au](mailto:aseg-pesa2010@conferenceaction.com.au)

## Conference Venue

ASEG-PESA 2010 will be held at:

Sydney Convention & Exhibition Centre

Darling Drive, Darling Harbour NSW 2000 Australia

TEL: +61 2 9282 5000

WEB: [www.scec.com.au](http://www.scec.com.au)

## Key Dates

Early Registration	Closing date	25 June 2010
Accommodation	Rates guaranteed to	20 July 2010
Late Registration	Closing date	16 August 2010
On-Site Registration	From	22-26 August 2010

## Website

Please visit our website for online registration (if paying by credit card) and for the latest conference information,

[www.aseg-pesa2010.com.au](http://www.aseg-pesa2010.com.au)

The website will contain new and up-to-date information, which may not be available in this document. We strongly recommend that you visit this website before the event to obtain the latest information.

## Conference CD-ROM

Sponsored by:



All full delegates and student delegates will receive a Conference CD-ROM which is included in the full and student conference registration fee.

# Speakers

## Plenary Speakers



### **Hon Martin Ferguson AM, MP, Minister for Resources and Energy; Minister for Tourism**

Hon Martin Ferguson AM, MP, BEc (Hons), Member for Batman (Vic) is the Federal Minister for Resources and Energy and the Minister for Tourism. He was appointed a Member of the Order of Australia in June 1996 and has served in many active leadership and public roles within the trade union movement, Parliamentary Committees and Shadow Ministries.



### **John McGagh, Rio Tinto**

John McGagh has been with Rio Tinto since 1980, most recently as Global Head of Procurement looking at goods and services purchased by Rio, and now as the Head of Innovation which also covers research and development within the company. His background has spanned e-marketplaces to inbound supply chains, as well as project engineering and operations.

**Rio Tinto**

## Keynote Speakers



### **Vanessa Lenthall**

Division Director, Metals and Energy Capital Division, Fixed Income, Currencies and Commodities, Macquarie Group Limited, 1 Martin Place Sydney NSW Australia



### **Dr Ian Moore**

Geophysical Advisor,  
WesternGeco  
Level 5, 256 St Georges Terrace,  
Perth WA 6000, Australia  
Associate Editor for Geophysics.



### **Dr Barry Goldstein**

Director – Petroleum/Geothermal, PIRSA  
Chair – Australian Geothermal Energy  
Group (AGEG), Executive Committee, IEA  
Geothermal Implementing Agreement  
(GIA), Level 6, 101 Grenfell Street,  
Adelaide SA Australia 5000



### **Dr Tim Munday**

Senior Research Geologist,  
CSIRO Earth Science & Resource  
Engineering, PO Box 136,  
North Ryde NSW 1670



### **Ian Longley**

General Manager Exploration,  
Oil Search Limited, Level 27, Angel Place,  
123 Pitt St, Sydney NSW 2000  
Co-presenter of the Petroleum Geology  
of SE Asia public course



### **Dr Nicholas Williams**

Airborne EM Project Leader (Acting),  
Onshore Energy and Minerals Division  
Geoscience Australia, GPO Box 378,  
Canberra ACT 2601  
Best Presentation Award – Mineral  
Exploration on Geologically Constrained  
Geophysical Inversion, 2009 ASEG-PESA  
Conference, Adelaide

# Social Events



## Welcome Reception

**VENUE:** Exhibition Area, Hall 5, Sydney Convention & Exhibition Centre  
**DATE:** Sunday, 22 August 2010  
**TIME:** 1800 – 2000 hours  
**DRESS:** Smart casual  
**COST:** Included in Full Delegate Registration Fee  
Extra tickets: \$75 per person

It is hoped all delegates and their guests will be able to attend this evening. This is a fantastic networking opportunity, which is sponsored by Woodside Energy Limited.



## Happy Hour Cocktails

**VENUE:** Exhibition Area, Hall 5, Sydney Convention & Exhibition Centre (Mon, Tue)  
Parkside Ballroom Foyer (Wed)  
**DATE:** Mon, 23 – Wed, 25 August 2010  
**TIME:** 1730 – 1830 hours  
**DRESS:** Smart casual  
**COST:** Included in Full Delegate Registration Fee  
Extra tickets: \$35 per person

Review the day's events with colleagues and catch up with the exhibitors in a relaxed happy hour following the technical sessions.

Monday's Happy Hour is proudly sponsored by Mosaic Oil  
Tuesday's Happy Hour is proudly sponsored by Roc



## Conference Dinner

**VENUE:** Parkside Ballroom, Sydney Convention & Exhibition Centre  
**DATE:** Tuesday, 24 August 2010  
**TIME:** 1900 – 2330 hours  
**DRESS:** Smart casual  
**COST:** \$120 per person

Join us for an evening of fine food, wine and entertainment that is guaranteed to relax and entertain delegates and their guests.

## Farewell Drinks

**VENUE:** Parkside Ballroom Foyer, Sydney Convention & Exhibition Centre  
**DATE:** Thursday, 26 August 2010  
**TIME:** 1730 – 1900 hours  
**DRESS:** Smart casual  
**COST:** Included in Full Delegate Registration Fee  
Extra tickets: \$35 per person

This is the last opportunity to savour and review conference memories with friends and colleagues, whilst overlooking the beautiful city skyline.

Sponsored by:



## Student Day

**VENUE:** Sydney Convention Centre  
**DATE:** Tuesday, 24 August 2010  
**COST:** Complimentary

Secondary students, teachers and university students will be able to attend the conference on one day to listen to talks, interact with industry geophysicists and view the exhibits.

Sponsored by:



## Conference Golf Day

**VENUE:** Moore Park Golf Club  
**DATE:** Friday, 27 August 2010  
**TIME:** 0800 hours  
**DRESS:** Golf Attire  
**COST:** \$100 Entry Fee excluding equipment

For further details on the Golf Day and to register for the day please visit [www.aseg-pesa2010.com.au](http://www.aseg-pesa2010.com.au) and click on the Social Tab.

**\*For a complete list of things to do and see in Sydney, please visit [www.aseg-pesa2010.com.au](http://www.aseg-pesa2010.com.au) and click on the Social Tab.**

# Accommodation



- 1 Ibis Sydney King Street Wharf
  - 2 Grand Mercure Apartments
  - 3 Ibis Sydney Hotel on Darling Harbour
  - 4 Star City Hotel
  - 5 Four Points Sheraton Darling Harbour
- C SCEC

Accommodation has been reserved at several hotels within walking distance to the Sydney Convention & Exhibition Centre. Please note that each rate given is per room per night and includes GST – however only bookings through the Secretariat will obtain these rates. Rates DO NOT include breakfast. To secure your booking, a minimum of the first nights deposit is required with the registration form.

## Hotel Information

- Check-in time is after 1500 hours.
- Check-out time is before 1100 hours.
- Late arrivals – if you plan to arrive after 1800 hours, please advise the Secretariat to ensure the room is held for you and not released.
- Room types:
  - Single – one or two beds in room
  - Double – one large bed in room
  - Twin – two separate beds in room
  - Apartment – two bedrooms
- Rates given are per room per night and include GST.
- Cancellation policy – the deposit is non-refundable and will be forfeited if you do not arrive on the date specified on your registration form.

## Ibis Sydney King Street Wharf

★★★★½

(7 min. walk)  
 22 Shelley Street (Cnr Erskine Street)  
 Sydney NSW 2000  
 Tel: +61 2 8243 0700  
 Cost: **\$149 per room per night**

## Ibis Sydney Hotel Darling Harbour

★★★★½

(2 min. walk)  
 70 Murray Street  
 Darling Harbour NSW 2000  
 Tel: +61 2 9563 0888  
 Cost: **\$159 per Pyrmont view room per night**  
**\$179 per Harbour view room per night**

## Star City Hotel

★★★★★

(5 min. walk)  
 80 Pyrmont Street  
 Pyrmont NSW 2009  
 Tel: +61 2 9657 8988  
 Cost: **\$194 per Superior Pyrmont view room per night**  
**\$244 per 2 Bedroom Pyrmont view apartment**

(why not keep costs down & share with a colleague in these two bedroom apartments)

## Four Points Sheraton, Darling Harbour

★★★★ ½

(5 min walk)  
 161 Sussex Street Sydney NSW 2000  
 Tel: +61 9290 4000  
 Cost: **\$220 per room per night**

## Grand Mercure Apartments

★★★★½

(2 min. walk)  
 50 Murray Street  
 Darling Harbour NSW 2000  
 Tel: +61 2 9563 6666  
 Cost: **\$329 per Pyrmont view apartment per night**

(why not keep costs down & share with a colleague in these two bedroom apartments)

# Provisional Program



## Sunday, 22 August 2010

- 1600 Registration Opens
- 1800 – 2000 Exhibition Opens and Welcome Reception

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## Monday, 23 August 2010

- 0700 Registration Opens
- 0715 Chair and Speaker Breakfast
- 0845 Official Opening Ceremony
- 0900 – 1015 **Plenary Session and Society Awards**  
**Hon Martin Ferguson AM, MP**, Minister for Resources and Energy, Minister for Tourism  
**John McGagh**, Head of Innovation, Rio Tinto

### MORNING TEA IN EXHIBITION AREA

1100 – 1230	STREAM 1	STREAM 2	STREAM 3	STREAM 4
	Minerals Discovery	Technology Advances	Prospecting with Gravity	Petroleum in Onshore Basins

### LUNCH AND EXHIBITION VIEWING

### POSTER VIEWING SESSION 1

1330 – 1500	Minerals Discovery	Technology Advances	Prospecting with Gravity	Petroleum in Onshore Basins
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### AFTERNOON TEA IN EXHIBITION AREA

1530 – 1730	Minerals Discovery	Technology Advances	Uranium Exploration	Petroleum in Onshore Basins
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### HAPPY HOUR IN EXHIBITION AREA

Sponsored by:



### POST GRADUATE STUDENT RECEPTION

Sponsored by:



Future discoveries  
are in our hands



For updated program information please visit the conference website [www.aseg-pesa2010.com.au](http://www.aseg-pesa2010.com.au) and click on the program tab.

# Provisional Program

## Tuesday, 24 August 2010

0715 Chair and Speaker Breakfast

0800 Registration Opens

0830 – 1030	<b>STREAM 1</b>	<b>STREAM 2</b>	<b>STREAM 3</b>	<b>STREAM 4</b>
	Innovations in Geophysical Inversion	Technology Advances	Geophysics and Geothermal Applications	3D Technologies in Off-shore Basins

1030 – 1100 **MORNING TEA IN EXHIBITION AREA**

1100 – 1230	Innovations in Geophysical Inversion	Technology Advances	Geophysics and Geothermal Applications	3D Technologies in Off-shore Basins
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1230 – 1330 **LUNCH AND EXHIBITION VIEWING**

1300 – 1330 **POSTER VIEWING SESSION 2**

1330 – 1500	Innovations in Geophysical Inversion	Technology Advances	Engineering Applications for Geophysics	Minerals Discovery
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1500 – 1530 **AFTERNOON TEA IN EXHIBITION AREA**

1530 – 1730	Innovations in Geophysical Inversion	PNG Exploration	Engineering Applications for Geophysics	Industry Perspective
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1730 – 1830 **HAPPY HOUR IN EXHIBITION AREA**

Sponsored by:



1900 – 2330 **CONFERENCE DINNER**

## Wednesday, 25 August 2010

0715 Chair and Speaker Breakfast

0800 Registration Opens

0830 – 1030	<b>STREAM 1</b>	<b>STREAM 2</b>	<b>STREAM 3</b>	<b>STREAM 4</b>
	Better Delineation of Groundwater Resources	Deeper Penetration and Greater Clarity	Formation Geophysics	Marine Acquisition

1030 – 1100 **MORNING TEA IN EXHIBITION AREA**

1100 – 1230	Better Delineation of Groundwater Resources	Deeper Penetration and Greater Clarity	Formation Geophysics	Marine Acquisition
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1230 – 1330 **LUNCH AND EXHIBITION VIEWING**

1300 – 1330 **POSTER VIEWING SESSION 3**



1330 – 1500	Geophysics and Carbon Dioxide Issues	Deeper Penetration and Greater Clarity	Formation Geophysics	CSEM
1500 – 1530	AFTERNOON TEA IN EXHIBITION AREA			
	Exhibition Official Closing Ceremony			
1530 – 1700	Geophysics and Carbon Dioxide Issues	Deeper Penetration and Greater Clarity	Formation Geophysics	CSEM
1730 – 1830	HAPPY HOUR IN PARKSIDE BALLROOM FOYER			

## Thursday, 26 August 2010

0715	Chair and Speaker Breakfast			
0800	Registration Opens			
0830 – 1030	STREAM 1 Groundwater and Salinity	STREAM 2 EM & MT: Keeva Vozoff Symposia	STREAM 3 Architecture and Development of Offshore Basins	
1030 – 1100	MORNING TEA			
1100 – 1230	Groundwater and Salinity	EM & MT: Keeva Vozoff Symposia	Architecture and Development of Offshore Basins	
1230 – 1330	LUNCH			
1300 – 1330	POSTER VIEWING SESSION 4			
1330 – 1500	Groundwater and Salinity	EM & MT: Keeva Vozoff Symposia	Architecture and Development of Offshore Basins	
1500 – 1530	AFTERNOON TEA			
1530 – 1700	Groundwater and Salinity	EM & MT: Keeva Vozoff Symposia	Architecture and Development of Offshore Basins	
1700 – 1730	OFFICIAL CLOSE & AWARDS			
	Sponsored by:			
1730 – 1830	FAREWELL DRINKS			
	Sponsored by:			

# Workshops: GEOLOGICAL MODELLING, EM & POTENTIAL FIELDS

Please note workshops have a minimum number of participants required to proceed and need to be booked no later than **Friday July 17 2010**. Please also note the maximum numbers for each workshop.

## G1: Tensor Processing: Gradient Processing

DATE: Saturday, 21 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$315.00  
MIN NO: 10 MAX: 20

**Presented by Intrepid Geophysics Pty Ltd, Melbourne**

Intrepid Geophysics is at the forefront of developing techniques in the signal processing of full tensor and gradient data sets for both gravity and magnetics. We apply the underlying physical and mathematical properties of the tensor to correctly interpolate between tensor readings and achieve superior data processing results.

- Using Intrepid's Tensor Spherical Interpolation Technology, the eigenvalues together with the associated quaternion of the tensor can be used for the interpolation and filtering processes
- This forms the basis for Quality Control of vector and full tensor surveys
- The approach is implemented in Levelling, Filtering, Terrain Corrections and Gridding Operations
- The course will cover aspects of the design of tensor instruments, and what signals can be recovered if potential gradients are measured. Some actual gravity and magnetic tensor gradient data is used for training.

## G2: Advance Potential Field Data Processing Short Course

DATE: Saturday, 21 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$500.00  
MIN NO: 15 MAX: 20

**Presented by Gordon Cooper, Professor of Geophysics, University of Witwatersrand, South Africa**

This course will cover recent updates in potential field data processing. It will begin with the standard filters then examine how they are related and look at modifications and extensions. The course will be approximately 50% lectures and 50% practical, with Matlab being used for the practical sessions. Knowledge of the Fourier transform will be assumed. The course syllabus may include — Horizontal derivatives in the space and frequency domains, in one and two dimensions; DOG and LOG filters; Sunshading. Measures of curvature; Vertical derivatives, including fractional order;

Hilbert transforms; Analytic signals; Instantaneous phase and frequency; Laplaces' equation; Vertical continuation to flat and arbitrary surfaces; Pole reduction, including the low latitude and variable inclination/declination cases; Pseudogravity; Phase based data filtering; Depth estimation from power spectra; Matched filtering; enhancement techniques such as the horizontal and vertical tilt angles, theta map, tilt-depth method, anisotropic diffusion, non-local means, AGC, and terracing will be discussed; GLCM textural analysis of potential field data.

## G3: Overview of Rapid Geological and Geophysical Modelling in Gocad and Skua

DATE: Saturday, 21 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$600.00  
MIN NO: 15 MAX: 20

**Presented by Peter Fullagar, Glenn Pears and Tim Chalke of Mira Geoscience Advanced Geophysical Interpretation Centre, Brisbane**

This course is for geophysicists and geologists in exploration and mining roles who want to improve their knowledge or skill base for rapid geological modelling and geologically constrained gravity and magnetic inversions. The course will provide insight into Gocad modelling techniques and a new geological modelling technology called SKUA for rapid 3D model construction from observation data. These technologies allow for quick creation of complex starting models that are readily incorporated into constrained gravity and magnetics inversion.

The course is strongly focused on state-of-the-art technology and know how for integrating 3D geological and geophysical data into a single, consistent earth model. The course will include hands on model building using Gocad and SKUA, and updating models with UBC GIF and VPmg inversion software.



#### **G4: Hands on Workshop on Processing Constrained Inversion with Prior Information of AEM Data With the Aarhus Workbench**

DATE: Saturday, 21 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$400.00  
MIN NO: 10 MAX: 20

**Presented by Dr Andrea Viezzoli, Dr Esben Auken, Camilla Soerensen, Aarhus Geophysics, Denmark**

This workshop provides a hands on tutorial on features of the Aarhus Workbench for processing and inversion of AEM data. A self contained GIS based platform for DC and EM data, its extensive processing tools prepare the data for layered full non linear spatially constrained inversions, which can be fed with prior information, e.g., from conductivity logs. The GIS modules allow visualisation and QC of results (e.g., depth of investigation), and preparation of maps. It is used both for hydrogeological and exploration applications. Attendees will perform first hand the whole process from data import to report maps, on different AEM data types.

#### **G5: Airborne Gravity 2010**

DATE: Sunday, 22 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$120.00  
MIN NO: 80 MAX: 200

**Chaired by Bob Smith – Greenfields Geophysics, David Robson – Geological Survey of New South Wales, Richard Lane – Geoscience Australia and Mark Dransfield – Fugro Airborne Surveys**

The objective of this workshop is to review advances in airborne gravity since the Airborne Gravity Workshop 2004, also held in Sydney. The Airborne Gravity Workshop 2010 will follow four themes:

- Current operating airborne gravity and gravity gradiometry systems
- Developing airborne gravity and gravity gradiometry systems
- Advances in processing and interpretation software
- Review of complementary technologies

If you are interested in what is happening with airborne gravity, this workshop is a must. The format of this one-day workshop will be succinct presentations followed by discussion forums throughout the day. A volume of Workshop Abstracts and accompanying DVD will be issued on arrival at the workshop.

#### **G6: Geomodeller: Building a 3D Geology Model – Reconciled with Gravity / Magnetic Tensor Data**

DATE: Friday, 27 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$300.00  
MIN NO: 10 MAX: 20

**Presented by Intrepid Geophysics Pty Ltd, Melbourne**

This workshop will introduce the 3D GeoModeller approach to building a 3D geology model. Users will add new geology data, and revise their interpretive ideas, and will learn that geology models can be easily revised and improved. The workshop will then demonstrate the benefits of computing forward model solutions for gravity and magnetics, including their vector and tensor components. This process effectively 'tests' the 3D geology model. The user can revise the model to achieve a 3D geology result which remains consistent with geology observations, and has improved consistency with geophysical datasets. In the afternoon session GeoModeller's geophysical inversion will be applied. This stochastic exploration process seeks 'alternative' geology models which are also consistent with the set of geology and geophysical constraints. It will be demonstrated that this inversion approach – using vector and tensor datasets – achieves further interpretive improvement and refinement of the 3D geological model.

#### **G7: AEM System Definition and Qualitative Interpretation of 1D, 2D and 3D Targets**

DATE: Friday, 27 August 2010 – Saturday, 28 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$1100.00  
MIN NO: 15 MAX: 30

**Presented by James Macnae, Professor of Geophysics, RMIT University, Melbourne**

This AEM workshop will provide instruction on Day 1 how AEM systems need to be described and calibrated in order to achieve accurate numerical modelling of observed responses. Choice of an appropriate system based on target specifications will be covered. On day 2, quantitative modelling and interpretation instruction and exercises will be undertaken to illustrate 1D and 2D fitting and interpretation of AEM profiles. A laptop is needed by each participant, software will be provided to registrants prior to the workshop for installation.

#### **E1: Seismic Facies Mapping Within a**

# Workshops: ENERGY, CARBON CAPTURE & ENGINEERING

Please note workshops have a minimum number of participants required to proceed and need to be booked no later than **Friday July 17 2010**. Please also note the maximum numbers for each workshop.

## Sequence Stratigraphic Framework

DATE: Monday, 16 August 2010 – Friday,  
20 August 2010 (5 Days)  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$1300.00  
MIN NO: 15 MAX: 20

**Presented by Rob Kirk, Director, Robkirkconsultants Pty Ltd, Nubeena, Tasmania**

This 5 day course is designed to give the attendee an understanding of seismic facies within a sequence stratigraphic framework in order to better understand the distribution of reservoirs, seals and source. There is an emphasis on calibration with wells (and outcrop).

This course will look at many geological environments-from the deep marine to fluvial-alluvial, including carbonates.

We will work on 20 or more seismic examples from around the world including North Slope Alaska, Gulf of Mexico, offshore West Africa, India, Vietnam, Malaysia, China and several Australian Basins

## E2: 3D Seismic Survey Design

DATE: Monday, 16 August 2010 – Friday,  
20 August 2010 (5 Days)  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$2,100.00  
MIN NO: 15 MAX: 20

**Presented by Gijs J.O. Vermeer, 3DSymSam – Geophysical Advice, The Netherlands**

The book "3-D seismic survey design" authored by the instructor and published by the Society of Exploration Geophysicists is used as a basis for this course. The main geometries used in 3D seismic data acquisition are orthogonal, parallel and areal geometry. The properties of these 3D acquisition geometries are analysed. Each geometry can be characterised by its basic subset. 3D symmetric sampling requires that the basic subset of each geometry is properly sampled. This approach maximizes spatial continuity ensuring optimal spatial filtering results including minimal migration artefacts. This theory is translated into practical guidelines for 3D seismic survey design. Case histories and modelling are used to illustrate

the concepts and the relation between acquisition geometry and processing, in particular noise suppression and imaging. The main subjects covered by the course are 2D seismic data acquisition, 3D acquisition geometries, relation between acquisition geometry and imaging, guidelines for 3D seismic survey design, implementation of nominal geometry, marine 3D acquisition, and converted-wave survey design.

## E3: An Integrated Coalbed Methane Exploration Model: Defining Coal Seam Methane Sweetspots

DATE: Saturday, 21 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$400.00  
MIN NO: 20 MAX: 40

**Presented by Andrew Scott, Altuda Energy Corporation, Texas**

This coalbed methane short course is valuable to geologists, hydrologists, geophysicists, and petroleum engineers, who want learn the basic fundamentals and/or review latest technologies that are applicable to coalbed methane exploration and resource development.

This course is designed to review the fundamentals of coal seam methane for those new to the play, and to provide additional details about various aspects of coalbed methane exploration and development for those who are already familiar with coal seam methane.

The course will provide a "hands-on" overview of coal seam methane including how coal reservoirs and coal seam methane production differs from conventional gas plays. A coalbed methane exploration model emphasising key geologic and hydrologic controls on coal-gas production will be reviewed during the course.



#### **E4: From Refraction Tomography to Refraction Attributed with the GRM & RCS**

DATE: Friday, 27 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$500.00  
MIN NO: 12 MAX: 20

**Presented by Derecke Palmer, Senior Visiting Fellow in Geophysics, The University of New South Wales**

Model and field case studies demonstrate that refraction tomograms are very similar to the starting models. The major effect of refraction tomography is largely cosmetic, because it does not improve resolution. Accordingly, the selection of the inversion algorithms can be critical. Detailed models of the regolith can be derived from refraction attributes computed with the GRM and from the RCS. More effective integration of geoscientific and engineering data in geotechnical site characterisation can be achieved with the application of multivariate geostatistics to refraction attributes. Furthermore, refraction attributes can be employed in joint inversion with other sets of geophysical data, such as land and airborne gravity data, and airborne electro-magnetic data.

Attendees are required to bring their own laptop computer.

#### **E5: 2010 SEG / EAGE Distinguished Instructor Short Course – Geophysics Under Stress: Geomechanical Applications of Seismic and Borehole Acoustic Waves**

DATE: Sunday, 22 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$210.00 SEG/EAEG member  
\$300.00 non member  
MIN NO: 20 MAX: 80

**Presented by Colin Sayers, Schlumberger**

The purpose of this course is to provide an overview of the sensitivity of elastic waves in the earth to the in-situ stress, pore pressure, and anisotropy of the rock fabric resulting from the depositional and stress history of the rock, and to introduce some of the applications of this sensitivity. It will provide the basis for applying geophysics and rock physics solutions to geomechanical challenges in exploration,

drilling and production. A variety of applications and real data examples will be presented, and particular emphasis will be placed on the rock physics basis underlying the use of geophysical data for solving geomechanical problems.

The following topics will be addressed:

- Introduction to the effects of stress in the earth
- Sediment compaction and the state of stress in the earth
- Pore pressure
- Stress sensitivity of sandstones
- Wellbore stability and wave velocities near a borehole
- Reservoir geomechanics and 4D seismic monitoring
- Fractured reservoirs
- The seismic anisotropy of shales

#### **E6: Carbon Capture and Storage: Issues and Opportunities for the Petroleum Industry**

DATE: Friday, 27 August 2010  
TIME: 0830 – 1700 hours  
VENUE: Crowne Plaza, Darling Harbour  
COST: \$350.00  
MIN NO: 40 MAX: 80

**Presented by CCS experts from the Cooperative Research Centre for Greenhouse Gas Technologies (CO2CRC) and its collaborating partners**

Burning fossil fuels for energy is a major source of CO<sub>2</sub> emissions to the atmosphere. Most anthropogenic CO<sub>2</sub> is emitted by coal fired power plants, though significant CO<sub>2</sub> is emitted through the production and separation of CO<sub>2</sub> – rich gas. The principle carbon management option of interest to the petroleum industry is carbon capture and storage (CCS). CCS involves the long-term storage of captured CO<sub>2</sub> emissions in subsurface geologic formations. CO<sub>2</sub> is captured at the source and transported from the source to the geologic storage site (typically via pipeline). The CO<sub>2</sub> is injected via conventional wells into the appropriate geologic reservoir. Migration of the geologically trapped CO<sub>2</sub> is carefully monitored and the quantity stored is regularly verified.

This workshop briefly covers the basics of the CCS process and then explores in detail the challenges of the current technology of geological storage, including examples from working projects.

# General Information



## Registration Desk

The registration desk will be located in the Parkside Office on Level 1 at the Sydney Convention & Exhibition Centre. Staff at the registration desk will be happy to help with any queries.

The anticipated registration desk hours are:

Sunday, 22 August 2010	1600 – 2000 hours
Monday, 23 August 2010	0700 – 1730 hours
Tuesday, 24 August 2010	0800 – 1730 hours
Wednesday, 25 August 2010	0800 – 1730 hours
Thursday, 26 August 2010	0800 – 1700 hours

## Name Badges

All delegates will be given a name badge at registration. This badge will be the official pass to sessions, teas, lunches and official social functions. It is necessary for delegates to wear their name badges at all times when on-site for security reasons.

## Messages

A message board will be located next to the registration desk throughout the event.

## Smoking Policy

The event policy is that there will be “no smoking” inside the Sydney Convention & Exhibition Centre – smoking is only permitted in the outdoor areas.

## Car Parking

The following car parking rates apply at the Sydney Convention & Exhibition Centre car park:

### Day Rates

0 – 1 hours	\$8.00
1 – 2 hours	\$16.00
2 – 3 hours	\$22.00
3 – 4 hours	\$26.00
4 hours or more	\$28.00

### Evening Rates

(entry after 5pm and exit before 9am)

0 – 1 hours	\$7.00
1 – 2 hours	\$13.00
2 hours or more	\$18.00

## Credit Cards

Credit cards accepted at the registration desk are Mastercard, Visa and American Express. The majority of hotels, restaurants and shops will accept these major credit cards.

## Goods & Services Tax (GST)

Please note that all prices quoted throughout this document (registration fees, accommodation, social events, etc) are inclusive of GST.

## Passports and Visas

Current passports are required for all visitors to Australia, and must be valid for at least 3 months beyond planned stay. Visas are not required if travelling on a New Zealand passport. For all other international delegates, we recommend you check visa requirements before departure: [www.immi.gov.au](http://www.immi.gov.au)

For delegates that require an official letter of invitation to obtain their VISA, please email the ASEG-PESA2010 Conference Secretariat: [aseg-pesa2010@conferenceaction.com.au](mailto:aseg-pesa2010@conferenceaction.com.au).

## Travel Insurance

All Travel, Medical and Health insurance are your own responsibility.

Please note that medical services are not free to all visitors.

## Disclaimer of Liability

The Organising Committee, including the Secretariat, and ASEG-PESA will not accept liability for damages of any nature sustained by participants or their accompanying persons or loss of or damage to their personal property as a result of the conference or related events.

# Things to see and do in Sydney

Sydney, the "Harbour City", is the largest, oldest and most cosmopolitan city in Australia. Sydney is world renowned as one of the most beautiful cities and is also home to many unique architectural styles, including the Sydney Opera House and the Sydney Harbour Bridge.

From Sydney Harbour cruises, dining and adventure tours to wildlife encounters and sightseeing coach tours, there are many things to explore in Sydney. Please see below a list of recommended websites featuring the best of Sydney's tours, attractions and activities.

## [www.sydneythingstodo.com.au](http://www.sydneythingstodo.com.au)

A one stop shop for the best of Sydney's Tours, Activities and Attractions. A wonderful website that you safely book online tours, activities, tickets to shows and more.

## [www.sydney100.com](http://www.sydney100.com)

Sydney 100 is a local, independent guide to the top 100 (plus) things for you to do, see and enjoy in, and around, Sydney, Australia. It lists Sydney's best attractions and some of Sydney's lesser known sights, covering:

Sydney sightseeing, Sydney attractions, Must see places in Sydney, best things to do, romantic places to go, fun things to do, even a few free things to do, Sydney 100 has got it covered.

## [www.taronga.org.au](http://www.taronga.org.au)

Taronga Zoo is home to native Australian wildlife and a diverse collection of exotic species. Taronga Zoo is a spectacular way to discover more about wildlife and conservation through special tours, talks and animal encounters!

## [www.bridgeclimb.com](http://www.bridgeclimb.com)

BridgeClimb is the ultimate experience of Sydney. Choose from three guided Climbs that take you to the summit of this world famous Bridge, 134 metres above Sydney Harbour.



## [www.sydneyferries.info](http://www.sydneyferries.info)

Sydney Ferries have been servicing Sydney Harbour for more than 135 years. Explore 39 destinations and experience Sydney onboard one of our iconic ferries.

This site will help you locate everything you need to know about travelling with Sydney Ferries - from timetable and fare information to planning your trip, and great deals on popular harbour attractions.

## [www.bestrestaurants.com.au](http://www.bestrestaurants.com.au)

A Sydney experience is not complete without experiencing the diversity of cuisines in restaurants and cafes throughout the City, Darling Harbour and surrounds. Visit the website to look at the many restaurants on offer, their menu's, prices and special features.

# Registration Fees



Your registration fee includes:

## All Full Delegates\*\*

- Entry to all conference sessions
- Entry to trade exhibition
- Morning/afternoon teas and lunches during the event
- Social functions – Welcome Cocktail Party, Happy Hours and Farewell Drinks
- Satchel
- Final Program Book
- The Conference CD-ROM with Extended Abstracts

Sponsored by:



\*\* One Day delegates are not entitled to the inclusive social function tickets, however they can purchase a ticket at the guest rate.

## Fees

	Before 25.06.10	After 25.06.10
<b>Full Registration</b>		
ASEG/PESA Member	\$880.00	\$990.00
Non-Member	\$990.00	\$1,100.00
<b>1 Day Registration</b>		
ASEG/PESA Member	\$330.00	\$330.00
Non-Member	\$385.00	\$385.00
<b>Student Registration</b>		
ASEG/PESA Member	\$110.00	\$110.00
Non-Member	\$198.00	\$198.00

Please note that all persons who are attending the conference must register, including all presenters, chairpersons and conference officials.

## Acknowledgement

Registrations will be acknowledged via email with confirmation of your requirements according to your registration form, together with a tax invoice receipt. Bookings will only be confirmed when payment is received.

## Method of Payment

- Payment of fees must accompany all registration forms.
- All cheques, international bank drafts, money orders must be made payable to "ASEG-PESA 2010 Conference".
- Bank cheques and drafts must be drawn on a major branch of an Australian Bank in Australian dollars.
- Register online at [www.aseg-pesa2010.com.au](http://www.aseg-pesa2010.com.au) if you are paying by credit card.
- Credit cards accepted are Mastercard, Visa & American Express (please note Diners is NOT accepted).
- EFT bank details can be obtained from the Secretariat.

## Cancellation Policy

All cancellations or alterations should be put in writing to the ASEG-PESA 2010 Secretariat (registrations are transferable to another colleague at no additional cost). Please note that there is no refund on accommodation bookings.

If cancellation is received in writing:

- By 18 June 2010 – \$100.00 cancellation fee will apply
- By 23 July 2010 – 50% of monies paid
- After 23 July 2010 – no refund of monies paid

## Air Travel

For the best domestic airfares to Sydney, please book online at the following websites:

- [www.jetstar.com](http://www.jetstar.com)
- [www.qantas.com.au](http://www.qantas.com.au)
- [www.virginblue.com.au](http://www.virginblue.com.au)

## Sydney Airport

Located in Mascot NSW, Sydney Airport is approximately 8km from the central CBD.

Sydney Airport is easily accessible by all modes of transport including car, train, taxi or bus.

All terminals, T1 International, T2 Domestic and T3 Domestic, can be easily found by following signs to the airport – usually displayed by a simple aeroplane symbol. Most major routes will feature the symbol at decision points.

The State Transit Website – [www.131500.com.au](http://www.131500.com.au) – has useful information regarding public transport options, including a trip planner function that will provide you with detailed information on how to get to and from your destination.

For more detailed information please visit [www.sydneyairport.com.au](http://www.sydneyairport.com.au)



Please complete and return to: ASEG-PESA 2010 Conference Secretariat  
 Conference Action Pty Ltd, PO Box 576 CROWS NEST NSW 1585 AUSTRALIA  
 TEL: +61 2 9431 8699 FAX: +61 2 9431 8677  
 EMAIL: asege-pesa2010@conferenceaction.com.au  
 ABN 77 158 054 191

# Future discoveries are in our hands

## Registration Form / Tax Invoice

### Section A: Delegate

Title: \_\_\_\_\_ Given Name: \_\_\_\_\_ Surname: \_\_\_\_\_

Position: \_\_\_\_\_

Organisation: \_\_\_\_\_

Organisation Address: \_\_\_\_\_

Suburb: \_\_\_\_\_ State: \_\_\_\_\_ Country: \_\_\_\_\_ Postcode: \_\_\_\_\_

Telephone: ( ) \_\_\_\_\_ Facsimile: ( ) \_\_\_\_\_

Email: (required for your emailed confirmation details) \_\_\_\_\_

Specific Food Allergies: \_\_\_\_\_

(this is not dietary preferences but actual requirements such as vegetarian, vegan, lactose intolerant, etc)

### Section B: Registration Fees

		Before 25.06.10	After 25.06.10	Payment
Full Registration	ASEG/PESA Member	\$880.00	\$990.00	\$ _____
	Non-Member	\$990.00	\$1,100.00	\$ _____
Day Registration	ASEG/PESA Member	\$330.00	\$330.00	\$ _____
	Non-Member	\$385.00	\$385.00	\$ _____
Please tick day of attendance for one day delegates:				
<input type="checkbox"/> Mon, 23 August <input type="checkbox"/> Tues, 24 August <input type="checkbox"/> Wed, 25 August <input type="checkbox"/> Thur, 26 August				
Student Registration	ASEG/PESA Member	\$110.00	\$110.00	\$ _____
	Non-Member	\$198.00	\$198.00	\$ _____
Exhibition Only Access		\$88.00	\$88.00	\$ _____
<b>TOTAL REGISTRATION FEES</b>				<b>\$ _____</b>

### Section C: Accommodation

Date of arrival: \_\_\_\_ / 8 / 2010      Date of departure: \_\_\_\_ / 8 / 2010

Room type: Please tick (✓)     Single     Double     Twin                       Smoking room     Non-smoking room

Sharing with: \_\_\_\_\_

Hotel		Rate per night	Payment
Ibis King Street Wharf	Run of House	\$149.00	\$ _____
Ibis Hotel Darling Harbour	Pymont View	\$159.00	\$ _____
	Harbour View	\$179.00	\$ _____
Star City Hotel	Superior Pymont View	\$194.00	\$ _____
	2 Bedroom Pymont View Apartment	\$244.00	\$ _____
Four Points Sheraton Darling Harbour	Run of House	\$220.00	\$ _____
Grand Mercure Apartments	Pymont View	\$329.00	\$ _____
<b>TOTAL ACCOMMODATION</b>			<b>\$ _____</b>

## Section D: Social Events

Date	Event		Cost	No. of tickets	Payment
22 August	Welcome Reception	Full Delegate	Included	Please tick (✓) box	Attending <input type="checkbox"/> YES or <input type="checkbox"/> NO
		Extra Ticket	\$75.00	_____	\$ _____
24 August	Conference Dinner	Full Delegate	\$120.00	_____	\$ _____
		Extra Ticket	\$120.00	_____	\$ _____
26 August	Farewell Drinks	Full Delegate	Included	Please tick (✓) box	Attending <input type="checkbox"/> YES or <input type="checkbox"/> NO
		Extra Ticket	\$35.00	_____	\$ _____
23-25 August	Happy Hours	Full Delegate	Included	Please tick which Happy Hours you will be attending: <input type="checkbox"/> Mon <input type="checkbox"/> Tues <input type="checkbox"/> Wed	
		Extra Tickets	\$35.00	_____	\$ _____
<b>TOTAL SOCIAL EVENTS</b>					<b>\$ _____</b>

## Section E: Streams

To assist with room allocation with adequate seating, please indicate which concurrent sessions you plan to attend. For updated program information, please visit the conference website [www.aseg-pesa2010.com.au](http://www.aseg-pesa2010.com.au) and click on the 'program' tab.

### Monday 23 August

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Minerals Discovery          | <input type="checkbox"/> Technology Advances | <input type="checkbox"/> Prospecting with Gravity |
| <input type="checkbox"/> Petroleum in Onshore Basins | <input type="checkbox"/> Uranium Exploration |   |

### Tuesday 24 August

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Innovations in Geophysical Inversion | <input type="checkbox"/> Technology Advances                     | <input type="checkbox"/> Geophysics and Geothermal Applications |
| <input type="checkbox"/> 3D Technologies in Off-shore Basins  | <input type="checkbox"/> Engineering Applications for Geophysics |   |
| <input type="checkbox"/> Minerals Discovery                   | <input type="checkbox"/> PNG Exploration                         | <input type="checkbox"/> Industry Perspective                   |

### Wednesday 25 August

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Better Delineation of Groundwater Resources | <input type="checkbox"/> Deeper Penetration and Greater Clarity | <input type="checkbox"/> Formation Geophysics |
| <input type="checkbox"/> Marine Acquisition                          | <input type="checkbox"/> Geophysics and Carbon Dioxide Issues   | <input type="checkbox"/> CSEM                 |

### Thursday 26 August

- |  |   |
|--|---|
| <input type="checkbox"/> Groundwater and Salinity                        | <input type="checkbox"/> EM & MT: Keeva Vozoff Symposia |
| <input type="checkbox"/> Architecture and Development of Offshore Basins |   |

## Section F: Workshops

Date	Workshop	Cost	No. of delegates	Payment
16-20 Aug	E1: Seismic Facies Mapping within a Sequence Stratigraphic Framework	\$1300.00	_____	\$ _____
16-20 Aug	E2: 3D Seismic Survey Design	\$2100.00	_____	\$ _____
21 Aug	G1: Tensor Processing: Gradient Processing	\$315.00	_____	\$ _____
21 Aug	G2: Advanced Potential Field Data Processing Short Course	\$500.00	_____	\$ _____
21 Aug	G3: An Overview of Rapid Geological and Geophysical Modelling in Gocad & Skia	\$600.00	_____	\$ _____
21 Aug	G4: Hands on Workshop on Processing and Constrained Inversion with Prior Information of AEM Data with the Aarhus Workbench	\$400.00	_____	\$ _____
21 Aug	E3: An Integrated Coalbed Methane Exploration Model: Defining Coal Seam Methane Sweetspots	\$400.00	_____	\$ _____
22 Aug	G5: Airborne Gravity 2010	\$120.00	_____	\$ _____
22 Aug	E5: 2010 SEG / EAGE Distinguished Instructor Short Course Geophysics Under Stress: Geomechanical Applications of Seismic and Borehole Acoustic Waves	SEG/EAEG member \$210.00 non-member \$300.00	_____	\$ _____
27 Aug	E4: From Refraction Tomography to Refraction Attributed with the GRM & RCS	\$500.00	_____	\$ _____
27 Aug	G6: Geomodeller: Building a 3D Geology Model – Reconciled with Gravity / Magnetic Tensor Data	\$300.00	_____	\$ _____
27 Aug	E6: Carbon Capture and Storage: Issues and Opportunities for the Petroleum Industry	\$350.00	_____	\$ _____
27-28 Aug	G7: AEM System Definition and Qualitative Interpretation of 1D, 2D and 3D targets	\$1100.00	_____	\$ _____

## Section G: Total Payment

All cheques and bank drafts must be in Australian Dollars & drawn on an Australian Bank.

Please make payable to **ASEG-PESA 2010 Conference**.

Payment Section B	Registration Fees .....	\$ _____
Payment Section C	Accommodation .....	\$ _____
Payment Section D	Social Events .....	\$ _____
Payment Section F	Workshops.....	\$ _____
<b>TOTAL PAYMENT DUE</b>		<b>\$ _____</b>

## Section H: Credit Card Payment

Please tick (✓) box:  Mastercard  Visa  AMEX (NOTE: Diners is NOT accepted)

Expiry Date: \_\_\_\_\_ / \_\_\_\_\_ Cardholder Name: \_\_\_\_\_

Card Number:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**PRIVACY CLAUSE:** In registering for this event relevant details will be incorporated into a delegate list (name & organisation only) and may be made available to parties directly related to the event including ASEG/PESA, Organising Committee, accommodation providers (for the purpose of room bookings only), exhibitors and key sponsors. This information will also be added to a database for future ASEG and/or PESA events.

I do not wish my details to be added to this database.