

## Travels and travails

It has been a busy period since my last piece in *Preview*. In September I attended the EAGE Near Surface Conference in Athens. It was a small but well run event and the hospitality in Athens was first class. Following the EAGE meeting I represented the ASEG in Denver, USA, at the annual SEG meeting. Like many before me I found the SEG a massive event with a maze of exhibitors in a vast convention centre. Also, like many before me, I found that the meeting was dominated by the oil and gas sector and that for many in the SEG, geophysics equals seismic reflection. The SEG groups minerals geophysics with engineering, environmental and archaeological geophysics in the 'Near Surface Geophysics' basket. There were less than five exhibitors relevant to minerals geophysicists and probably only one or two of relevance to engineering and environmental geophysicists.

For those who have not been to the SEG this was an 'off' year for minerals. Every second year they have a greater minerals focus and thus SEG 2016 in New Orleans may be better for those in the minerals sector. Having said all that, if you are a seismic geophysicist then the SEG conference provides a wonderful range of papers, exhibits and demonstrations that are unavailable anywhere else in the world.

You may ask why the ASEG president attends the SEG. This was a question I had on my mind before travelling to Denver. Firstly, I might say that the trip from Perth across the Pacific going east was horrendous. I did not recover from jetlag until well after I got back and most of my week in Denver was a bit of a haze, as I woke every morning at around 2 am. As ASEG President I had a number of duties between Monday and Wednesday including:

- Manning the ASEG booth.
- Delivering an address to the Asia-Pacific luncheon.
- Attending a meeting to prepare for Exploration 2017 in Toronto.
- Attending a Minerals Group meeting.
- Attending the annual President's reception.
- Meeting with SEG Japan and SEG Korea about our continuing

- relationship, particularly in regards to publication of Exploration Geophysics.
- Meeting with the President of the Mongolian Geophysical Society.
- Meeting with the Near Surface Group – including a discussion about the Near Surface Conference in Hawaii in 2015.
- Meeting with SEG President, President Elect and executive staff to discuss the SEG role in Australia and especially the provision of the DISC and DL series.
- Promoting the Perth ASEG-PESA conference.
- Bringing student membership of the ASEG to the attention of students at all the universities represented in the exhibition.
- Bringing our overseas members up-to-date with what is happening in the ASEG.

Was it all worth the trip? From a personal perspective it was probably not worth the trip because there were not enough papers and exhibits of interest to me. From the ASEG perspective, however, I believe it was worth sending the President to the conference because we continue to get DISC and DL lecturers from SEG, it is a great place to promote the ASEG, and our expatriate and overseas members like to have the opportunity to catch up with what's happening in Australia.

I now look forward to ASEG 2015 in Perth. ASEG conferences are such a great way to catch up with old mates and make new friends. The conference committee has put together a great program. The North Americans were particularly impressed by the inclusion of geologists, which makes the conference relevant to all explorers. I hope to see you there.

By this time you should have received your annual renewal notice and noted a small increase in membership fees to reflect the increase in the Australian Consumer Price Index. Your membership runs out for 2014 on 31 December and I urge you to take advantage of the generous discount in 2015 membership fees for those paying by the end of 2014.

The Federal Executive has put a lot of effort into making the membership renewal process easier in 2015. Some of the difficulties that members experienced

in 2014 were caused by the outmoded membership database. Our new secretariat recommended a professional database software called Currinda and you might encounter this program in your renewal.

This has not been a good year for geophysicists, particularly those involved in the minerals sector. Those of you still employed might spare a thought for our student and underemployed members during the festive season. Can you talk your employer into taking a student for vacation work? As education becomes more expensive students need vacation work to carry them through the year and any job relevant to geophysics has to be better than waiting on tables. Can you offer contract or short term work to those currently on 'gardening leave' to help them survive the downturn?

The Annual General Meeting will be held in Sydney in April 2015. We are seeking new people to take on committee roles in the ASEG. So, consider stepping forward or dobbing in a mate. We particularly need volunteers for roles on the Education Committee. This group (which is a group of one run by Wendy Watkins) runs the OzStep program and has a role in bringing SEG and EAGE lecturers to Australia as well as liaising with the secondary science teachers groups in the east (TESEP) and in Western Australia (STAWA).

There are many other roles to be filled and I encourage you to volunteer, particularly if you have ideas about where the society should go in the future.

*Greg Street*  
ASEG President  
[president@aseg.org.au](mailto:president@aseg.org.au)



*The ASEG President snapped at the races with eminent geophysicist Kim Cook.*

## Meet your 2014–2015 ASEG Federal Executive

### Directors

#### President

The President of the ASEG is one of the four Directors of the Society as recognised by Australian Securities and Investment Commission (ASIC), and has legal obligations to ASIC under the *Corporations Act 2001* for the proper running of the Society. The President oversees the general running of the ASEG Federal Executive (FedEx), chairs FedEx meetings, General Meetings and the ASEG council meeting held at the ASEG conference. In addition, the President represents the society at the ASEG annual conference and at international meetings.

A candidate for President is expected to serve for a minimum of 3 years; the first as President Elect learning the ropes, then a year as President and finally a year as Past President acting as a mentor to the President and President Elect. There is no requirement to resign after 3 years if one still has energy and enthusiasm for the job and the support of the FedEx. The 3 year term allows the President to take on projects and see them through to completion, therefore it is not uncommon for the Past President to be running with projects they started, or which were started during their term as President. Both the President Elect and President are Directors of the Society and responsible to the members as well as ASIC.



*Greg Street 2014–2015*  
[president@aseg.org.au](mailto:president@aseg.org.au)

#### President Elect

The President Elect's role is to support the President and act on their behalf when required, and also to work with the standing committees when the opportunity arises. The President Elect has 12 months to become familiar with the issues facing the Society so they will be able to implement plans the following year.

Phil Schmidt has been the Chair of the Society's Publications Committee since 2005. He is due to stand down as Chair of that Committee in 2015.



*Phil Schmidt 2014 – present*  
[presidentelect@aseg.org.au](mailto:presidentelect@aseg.org.au)

#### Secretary

The ASEG has a professional Secretariat that undertakes many of the traditional roles of an Honorary Secretary. This has allowed the ASEG's Secretary to focus on improvement of old policies, and the development of new policies that describe how the Federal Executive puts into practice the Society's Constitution. The Secretary organises FedEx events such as the Annual General Meeting and meetings of Council. They also maintain the Society's Strategic Plan. The Secretary is elected each year and is a Director of the ASEG.



*Barry Drummond 2012 – present*  
[fedsec@aseg.org.au](mailto:fedsec@aseg.org.au)

#### Treasurer

The Federal Treasurer is elected at the Annual General Meeting as a Director of the Society. This role requires the Treasurer to be responsible for all of the Society's accounts and finances (federal and state) and to be accountable to the relevant regulations under ASIC. The Treasurer is also the Chair of the Finance Committee, which advises the FedEx on longer term financial matters.



*Theo Aravanis 2014 – present*  
[treasurer@aseg.org.au](mailto:treasurer@aseg.org.au)

### Non-Directors

#### AGC Representative



*Kim Frankcombe 2012 – present*  
[kfrankcombe@iinet.net.au](mailto:kfrankcombe@iinet.net.au)

The Australian Geoscience Council (AGC) is a body representing the Geoscience Learned Societies. As well as the ASEG it includes the AIG, AusIMM, PESA, GSA, IAH, AGIA and AAG. Representation and voting power is determined by each society's size. Its main role is in lobbying and focusing geoscience agendas for the benefit of its members. Following the very successful IGC conference in Brisbane, the AGC now also has funds to apply to education as well as other worthwhile projects that may benefit Australian geoscientists in general.

#### Conference Advisory Committee Representative

The ASEG will have at least one Conference Organising Committee (COC) active at any time, although there are generally two and often more when smaller symposia-style events are included. Behind the Organising Committees are a group of past Conference Chairs collectively called the Conference Advisory Committee (CAC). Their role is to mentor the COC and to act as the Society's corporate memory and as a panel of experts in advising the FedEx. Kim Frankcombe is the Executive's representative on the CAC.

*Kim Frankcombe 2011 – present*  
[kfrankcombe@iinet.net.au](mailto:kfrankcombe@iinet.net.au)



*Continuing Education Committee Chair*

The Continuing Education Committee aims to help meet the needs for the ongoing education of members and to help to promote geophysics as a career. This is achieved by arranging for visiting lecturers from overseas societies to present at State Branch meetings, and by providing 1-day courses e.g. SEG Distinguished Instructor Short Courses, EAEG Education Tours and the ASEG OZSTEP courses. The aim is to deliver one minerals and one petroleum course per year.

In the future more educational material will be presented online and the Society is developing a strategy to facilitate this.



*Wendy Watkins 2013 – present*  
[continuingeducation@aseg.org.au](mailto:continuingeducation@aseg.org.au)

*Immediate Past President*

The position of Immediate Past President is filled by the President of the previous year. The role of Immediate Past President is to provide continuity in the activities of the ASEG FedEx. The Immediate Past President is expected to advise the current President about the status of standing projects and issues, past resolutions and contacts in foreign societies. They advise the Directors from their experience.



*Koya Suto 2014 – present*  
[pastpresident@aseg.org.au](mailto:pastpresident@aseg.org.au)

*International Affairs Committee Chair*

ASEG has ten associated societies: SEG, EAGE, SEG Japan, Korean SEG, Engineering and Environmental Geophysical Society (EEGS), SAGA

(South Africa), SPE India, Chinese SEG, SBGf (Brazil) and Mongolian SEG. The responsibility of the International Affairs Committee includes communicating with these societies on conferences and other activities, and organising meetings with them. As the President often represents ASEG at meetings with the associate societies, the Chair of the International Affairs Committee reports directly to the President.

*Koya Suto 2014 – present*  
[pastpresident@aseg.org.au](mailto:pastpresident@aseg.org.au)

*Membership Committee Chair*

The Membership Committee is responsible for membership matters, which include admission, renewal, promotion and dismissal. They assist the Secretariat in maintaining the membership database and any enquiries that arise. The Membership Chair is a member of the Executive and advises the FedEx of new member applications and membership upgrades and assists the Secretariat in preparing renewal procedures and forms.



*Katherine McKenna 2013 – present*  
[membership@aseg.org.au](mailto:membership@aseg.org.au)

*Publications Committee Chair (Vacant in 2015)*

The Publications Committee Chair's role is to coordinate the Publication Committee's efforts to deliver the Society's publications on time and on budget. This requires dealing with the publisher (currently CSIRO Publishing) to address changing Society needs, new technologies and interfacing between the publisher and the Committee. The Publications Committee comprises the Chair, the Publications Officer and the Editors-in-Chief of *Exploration Geophysics* and *Preview*. Phil Schmidt has been the Publications Chair since 2005.

Volunteers interested in becoming the Chair of the Publications Committee should contact [secretary@aseg.org.au](mailto:secretary@aseg.org.au) for more information regarding the role.

*Specialists and Working Groups Liaison*

Specialist and Working Groups are supported by the ASEG FedEx to assist members interested in the same sub-discipline to network and advance their knowledge through workshops and conference sessions. Coordination between the FedEx and Specialist and Working Groups is undertaken by this position.



*Tania Dhu 2013 – present*  
[tania.dhu@nt.gov.au](mailto:tania.dhu@nt.gov.au)

*State Branch Representative*

State Branches hold a key role in delivering services to local members. The State Branch Representative liaises between the Branches and the FedEx, communicating relevant issues between the Federal and Branch levels of the Society.

*Tania Dhu 2013 – present*  
[branchrep@aseg.org.au](mailto:branchrep@aseg.org.au)

*Technical Standards Committee Representative*

The Technical Standards Committee was established to co-ordinate uniform data exchange formats such as the GXF, ASEG GDF and most recently the ASEG ESF. It also acts as the Society's interface to external bodies such as GGSSA and IAGSA. It is chaired by Tim Keeping and represented on FedEx by Kim Frankcombe.

*Kim Frankcombe 2011 – present*  
[kfankcombe@iinet.net.au](mailto:kfankcombe@iinet.net.au)

*Website Committee (Vacant in 2015)*

The Website Committee works with web designers and the Secretariat to design, maintain and keep the web page up to date. They work on strategies to allow for continuous improvement of the web functionality, its services to the members and in helping promote the Society to the greater community.

Volunteers interested in becoming the Chair of the Website Committee in 2015 should contact [secretary@aseg.org.au](mailto:secretary@aseg.org.au) for more information regarding this role.

[webmaster@aseg.org.au](mailto:webmaster@aseg.org.au)



## Welcome to new members

The ASEG extends a warm welcome to new Members approved by the Federal

Executive at it's meetings in October and November.

First name	Last name	Organisation	State	Country	Membership type
James	Goodwin	Geoscience Australia	ACT		Active
Laszlo	Katona	Geological Survey of South Australia	SA		Active
Gary	Reed	Geological Survey of South Australia	SA		Active
Stephan	Thiel	Geological Survey of South Australia	SA		Active
Paul	Walshe		SA		Active
Will	Yount	Schlumberger	SA		Active
Mark	Stanley	CGG	VIC		Active
Shane	Mulè	CGG	WA		Active
Andrew	Stevenson	GHD	WA		Active
Otgonbayar	Dorjsuren	Xanadu Mines Mongolia LLC		Mongolia	Active O/S
Alireza	Mardani	SINOPEC		Iran	Active O/S
Lynsey	Brett	Rio Tinto	WA		Active
Graeme	Eastwood	GX Technology Australia Pty Ltd	WA		Active
U Geun	Jang	The University of Western Australia	WA	Australia	Active
Nikhil	Prakash	Rio Tinto	WA	Australia	Active
Michael	Alexander	Integrated Geophysics Corp.	TEXAS	USA	Active O/S
Mazin	Farouki	Petroleum Geo-Services		Singapore	Associate
Julien	Bourget	University of Western Australia	WA		Associate
Alastair	Smart	Omnitron TechnologiesP/L	VIC		Associate
Nooreddin	Alavi		WA		Associate
Adouley	Guirou	First Quantum Minerals		Mali	Associate
Sarah	Bembrick	University of Sydney	NSW		Student
Andrew	Takonis	University of New South Wales	NSW		Student
Jean-Daniel	Nicolas	Macquarie University	NSW		Student
Thedius	Godwin	Macquarie University	NSW		Student
Stephanie	Kovach	Macquarie University	NSW		Student
Ida	Hooshyari Far	Curtin University	WA		Student
Abdulaziz	Alasbali	Curtin University	WA		Student
Lachlan	Hennessy	RMIT University	VIC		Student
Joseph	Hamad	RMIT University	VIC		Student
Wen Jun	Lau	Macquarie University	NSW		Student
Aaron Joseph	Girard	UWA	WA		Student
Will	McAdam	University of Tasmania	TAS		Student
Bronson	Rogers	University of Tasmania	TAS		Student
Benjamin	Witten	The University of Western Australia	WA		Student
Muhammad	Hossain	Curtin University	WA		Student



# Magnetic Field Sensors for Exploration

## Three-Axis Magnetic Field Sensors

- Measuring ranges from  $\pm 70\mu\text{T}$  to  $\pm 1000\mu\text{T}$
- Noise levels  $< 6\text{pTrms}/\sqrt{\text{Hz}}$  at 1Hz
- Bandwidth to 3kHz; wide bandwidth version to 12kHz
- Range of data acquisition units

## MS3 Magnetic Susceptibility System

- Used for core analysis in oil and mineral exploration
- Sensors for field and laboratory applications
- Noise levels down to  $2 \times 10^{-6}$  SI
- Measuring range up to 25 SI



Mag-03MS sensor



MS3 meter + MS2C core logging sensor



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## Notice of Annual General Meeting

The 2015 Annual General Meeting (AGM) of the Australian Society of Exploration Geophysicists (ASEG) will be held in Sydney on Wednesday 15 April 2015. The meeting will be hosted by the NSW Branch at the Rugby Club (<http://www.rugbyclub.com.au/>). The address is: Rugby Place, Off Pitt Street, Sydney, NSW 2000.

Drinks will be available from 5.30 pm and the meeting will begin at 6.00 pm.

The business of the AGM will include:

- To confirm the minutes of the 2014 AGM;
- To receive from the Federal Executive reports on the activities of the Society during the last preceding financial year;
- To receive and consider the financial accounts and audit reports that are required to be submitted to members pursuant to the Society's Constitution and to law;
- To report the ballot results for the election of the new office holders for the Federal Executive;
- To confirm the appointment of auditors for the 2015 financial year.

The AGM will be followed by a scientific presentation. The speaker and title will be advised closer to the event.

### Invitation for candidates for the Federal Executive

Members of the Federal Executive serve in an honorary capacity. They are all

volunteers and members are encouraged to consider volunteering for a position on the Executive or on one of its committees. Current members of the Federal Executive are listed in *Preview*; please contact one of them if you wish to know more about volunteering for your society.

The Federal Executive comprises up to 12 members, and includes the following four elected members:

- (i) President,
- (ii) President Elect,
- (iii) Secretary, and
- (iv) Treasurer.

These officers are elected annually by a general ballot of Members. Phil Schmidt was elected as President Elect in 2014 and as such will stand for the position of President in 2015.

Members wishing to nominate for one of these positions should note that in accordance with Article 8.2 of the ASEG Constitution '...The elected members of the Federal Executive are designated as Directors of the Society for the purposes of the [Corporations] Act.'

The following officers are also recognised in the Society's Constitution and serve on the Federal Executive:

- (i) Vice President,
- (ii) the Immediate Past President (unless otherwise a member of the Federal Executive),
- (iii) the Chairman of the Publications Committee,

- (iv) the Chairman of the Membership Committee,
- (v) the Chairman of the State Branch Committees, and
- (vi) up to three others to be determined by the Federal Executive.

These officers are appointed by the Federal Executive from the volunteers wishing to serve the Society.

Nominations for all positions (except Past President) are very welcome. Please forward the name of the nominated candidate and the position nominating for, along with the names of two members who are eligible to vote (as Proposers), to the Secretary:

Barry Drummond  
ASEG Secretary  
Care of the ASEG Secretariat  
PO Box 576, Crows Nest, NSW 1585  
Tel: (02) 9431 8622  
Fax: (02) 9431 8677  
Email: [fedsec@aseg.org.au](mailto:fedsec@aseg.org.au)

Nominations must be received via post, fax or email **no later than COB Wednesday 18 March 2015**. Positions for which there are multiple nominations will then be determined by ballot of Members and results declared at the Annual General Meeting. Proxy forms and further details of the meeting will be sent to members prior to the meeting by email and made available to members on the Society's website.



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## ASEG Federal Executive 2014–15

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Phillip Schmidt: President-Elect (Publications Committee)  
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Barry Drummond: Secretary  
Tel: (02) 6254 7680  
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Theo Aravanis: Treasurer (Finance Committee Chair)  
Tel: (03) 9242 3327  
Email: [treasurer@aseg.org.au](mailto:treasurer@aseg.org.au)

Koya Suto: Immediate Past President (International Affairs Committee Chair, Research Foundation)  
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Email: [pastpresident@aseg.org.au](mailto:pastpresident@aseg.org.au)

Katherine McKenna: Vice President (Membership Committee Chair)  
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Kim Frankcombe: Past President (AGC Representative, Conference Advisory Committee and Technical Standards Committee)  
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Wendy Watkins: (Education Committee Chair)  
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Tania Dhu: (State Branch Representative, Specialist and Working Groups Liaison)  
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## Standing Committee Chairs

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Membership Committee Chair: Katherine McKenna  
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## ASEG Branches

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## The ASEG Secretariat

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#### Queensland

In October we welcomed the SEG near-surface honorary lecturer **Dr Koichi Hayashi** presenting 'Integrated Geophysical Methods Applied to Geotechnical and Geohazard Engineering: From Qualitative to Quantitative Analysis and Interpretation'. The audience was entertained by his sense of humour and interesting presentation. In November we are hosting an OZSTEP workshop 'Interpreting seismic amplitudes' presented by **Dennis Cooke**. The Queensland branch is also looking forward to our annual student night which will showcase the work of three recent Queensland graduates including **Nicholas Josephs** 'Ground penetrating radar and an Honours case study on the eastern coast of Queensland', **Andrew Pacey** 'Predictive deconvolution for coal seismology' and **Daniel Reyes** 'Geophysical indicators of CSG sweet spots'.



*Dr Koichi Hayashi presenting to the Queensland Branch of the ASEG.*

We invite anyone who is visiting Brisbane to attend our technical meetings and are currently looking for speakers for 2015.

*Fiona Duncan (Queensland Branch President)*

#### South Australia and Northern Territory

Recent events for the SA/NT Branch have included our annual Industry Night, the Melbourne Cup Luncheon and the SEG Near Surface Lecture, presented by **Dr Koichi Hayashi**. His talk, 'Integrated geophysical methods applied to geotechnical and geohazard engineering: from qualitative to quantitative analysis and interpretation' was well attended by a diverse audience, mostly interested in hearing of geophysical methods being used outside of the resources industry. This talk was also notable for drawing the largest audience of engineers seen in recent history at an SA ASEG technical evening.

All our technical events are made possible by our very generous group

of sponsors for 2014, including Beach Energy, the Department of State Development, Geokinetics, Ikon Science, Minotaur Exploration, Petrosys, Santos, Schlumberger, Statoil and Zonge. We hope to have them all back in 2015, with a few new faces too.

The Industry Night in October showcased a diverse group of companies, with presenters from Minotaur Exploration, Santos, Schlumberger and Statoil giving the local branch members an update of their activities. The Beach-Energy sponsored ASEG Melbourne Cup Luncheon was also a great success, despite the best efforts of a poorly timed fire alarm drill during the Calcutta Sweep proceedings.

By the time you have read this, events for 2014 will likely have wound up, and the Committee will be starting to look into events calendar for 2015, starting with the AGM in March, when everyone is back from ASEG-PESA 2015 in Perth. We welcome any interested members to the local Committee, and any commitment, large or small, is appreciated.

As ever, new members and other interested persons are always welcome to local events. For further details, please contact Luke at [luke.gardiner@beachenergy.com.au](mailto:luke.gardiner@beachenergy.com.au) or 08 8338 2833.

*Luke Gardiner (SA and NT Branch President)*

#### Tasmania

**Dr Brian Minty's** OzSTEP radiometrics workshop held on 30 September was both well received and well attended. A solid majority of the 20 participants were not primarily from geophysical backgrounds. This is an excellent sign of broader recognition of the potential of the technique for lithological and alteration mapping, especially in Australia with its extensive coverage of high quality public data sets. In a testament to Brian's presentation skill and expertise, the whole

audience remained thoroughly engaged throughout the day, despite widely varying prior knowledge. All came away having learned a great deal and glimpsed some exciting ongoing developments.

**Dr Koichi Hayashi** from Geometrics in California gave the 2014 SEG Near Surface Honorary Lecture to the Tasmanian branch on 6 October. University Earth Sciences staff, students and members of the local geotechnical

community all appreciated Koichi's presentation on how the integration of geophysical techniques can deliver information of direct use to engineers engaged in major construction and natural disaster mitigation. Thanks go to the SEG and sponsor Shell for giving us this sort of access to world class expertise, and also to the School of Earth Sciences and ARC Centre of Excellence in Ore Deposits at the University of Tasmania for hosting these ASEG branch events.

October also saw several geophysics Honours students give their final presentations. **Alistair Harvey** 'Geophysical interpretation of the Eastern Surat Basin basement' sponsored by QCG, supervised by **Michael Roach**, **Jie Yu** 'A geophysical investigation of the Mt Lindsay-Lynch Hill area,

western Tasmania' sponsored by Mineral Resources Tasmania and Venture Minerals, supervised by **Michael Roach** and **Mark Duffett**, and **Ashby Cooper** 'Crustal structure of the Bass Strait region from combined passive seismic methods' sponsored by the Australian Research Council in partnership with

Mineral Resources Tasmania, Geoscience Victoria and FrOGTECH, supervised by **Anya Reading** and **Nick Direen**, all gave talks of a very high standard.

*Mark Duffett (Tasmanian Branch President)*

## Victoria

On Wednesday 8 October the ASEG Victoria Branch hosted an evening technical meeting at the Kelvin Club with the SEG 2014 Near Surface Honorary Lecture 'Integrated geophysical methods applied to geotechnical and geohazard engineering: from qualitative to quantitative analysis and interpretation', by **Dr Koichi Hayashi** from Geometrics. The evening was well attended with the additional influx of members from the Australian Geomechanical Society.

On Thursday 23 October we hosted the Annual Student Night, where local geoscience students presented their current research. First place went deservedly to **Teagan Blaikie**, School of Geosciences, Monash University for her work on 'Interpreting the subsurface architecture of maar volcanoes using geologically constrained 3D gravity inversions'. **Janenie Mohgan** from Monash University, presenting 'Ground Penetrating Radar (GPR) used as a geophysical method for subsurface utility mapping and lateritic bauxite exploration', shared second place with **Robin Armit** from Monash University



*Dr Koichi Hayashi presenting to the Victorian Branch of the ASEG (and what seems to be a number of billiard tables).*

presenting 'High-heat geodynamic setting during the Palaeozoic evolution of the Mount Painter Province, SA, Australia: evidence from integrated field structural geology and joint potential-field inversions'.

On Wednesday 10 December it will once again be time to celebrate the festive

season at our Annual ASEG-PESA-SPE Societies Christmas Lunch at the Victoria Hotel in Melbourne's CBD.

We look forward to seeing many ASEG Victoria Branch members at the meetings in the coming months.

*Ashbjorn Norlund Christensen (Victorian Branch President)*

## Western Australia

It has been a fantastic spring season for WA with very many events such as the OzSTEP Workshop on Radiometrics, a Tech Night to celebrate the release of the new geophysical text book, a visit by the SEG Honorary Lecturer, a workshop on Magnetotellurics (MT), the ASEG-PESA Golf Classic and a students' presentation night.

On 22 September the OzSTEP one-day workshop on 'Gamma-ray spectrometric method for mineral exploration and environmental mapping' was held at Technology Park Function Centre, Bentley. This four-session workshop led by **Dr Brian Minty** was attended by 20 geophysicists/geologists.

On Thursday, 25 September the WA Branch gathered to celebrate the release



*Dr Brian Minty presenting to the WA Branch of the ASEG.*

of the text book 'Geophysics for the mineral exploration geoscientist'

co-authored by **Michael Dentith** and **Stephen Mudge** and published by



## ASEG News

Cambridge University Press. **Geoff Pettifer** of GHD made an excellent review presentation on the wider relevance of this new mineral geophysics text book to groundwater, geotechnical, hydrocarbon and environmental investigations. About 40 people attended this special Tech Night.

On Friday 10 October SEG Honorary Lecturer **Dr Koichi Hayashi** from Geometrics, California spoke on 'Integrated geophysical methods applied to geotechnical and geo-hazard engineering: from qualitative to quantitative analysis and interpretation'. The lecture introduced several case studies from different countries around the world.

A week long workshop on magnetotellurics (MT) was conducted at University of Western Australia in late October. This popular MT-Workshop was conducted by **Professor Alan Jones** of Dublin Institute for Advanced Studies, Dublin. Module One of the workshop covered 'An introductory short course for geoscientists' while Module Two helped the participants with practical data analysis and 1D inversion.

The 27th Annual **ASEG-PESA Golf Classic** was conducted on Friday 7 November at the Araluen Resort, WA, and was well attended by both ASEG and PESA members.

The Tech Night on Wednesday 12 November was exclusively for Honours and Masters students who had just completed their research projects. This year we had five candidates. Their names, affiliations and research topics are listed below:

1. **Matthew Kovacevic** (Curtin University) spoke on 'Seismic characterisation and tectonic significance of listric fault systems in the Ceduna sub basin'.
2. **Mahesh Raghvani** (Curtin University) spoke on 'Using seismic tomography to map shallow structures on land seismic'.
3. **Vanessa Carolia Gutierrez Acevedo** (Curtin University) spoke on 'Cooperative evaluation of post-stack inversion techniques over the Maitland Reservoir and adjacent prospects'.
4. **Alexander Costall** (Curtin University) spoke on 'Feasibility of Ground Penetrating Radar for Delineation of the Saline Water Interface along Perth's Coastal Margin'.
5. **Sandy Jones** (Curtin University) spoke on 'Evaluation of an



From left: Matthew Kovacevic, Mahesh Raghvani, Vanessa Carolia Gutierrez Acevedo, Alexander Costall and Sandy Jones.



The audience at the WA ASEG Branch Tech Night 2014.

electromagnetically driven seismic source'.

A large number of ASEG-PESA members attended this special Tech Night and the Best Presenter award was given to Matthew Kovacevic.

The WA branch of the ASEG is offering awards to eligible students currently studying geophysics or a related scientific discipline. The aim of the program is to promote and encourage geophysics-related research and education in WA.

Applications were invited from eligible students currently studying geophysics or a related scientific discipline at universities in WA. This year there were many applicants and a thorough review process was undertaken, following the ASEG guidelines, in search of 'the best'.

**Benjamin Witten**, PhD student at University of Western Australia (UWA) received the A\$2000 award for 2014. His research topic is 'Elastic parameter estimation using image-domain adjoint-state tomographic inversion of passive seismic wavefields'. According to Ben, the research outcome is expected to contribute towards the improvement of velocity estimates that will lead to more accurate

appraisal of earthquake properties, which will in turn provide more robust decisions and risk assessments operators of injection wells. Additionally this research could have applications on other scales and fields such as regional or whole earth seismology, non-destruction testing, and security such as within nuclear test ban monitoring.



Ben Witten



Ben Witten graduated with a BSc in Applied Mathematics from Columbia University (2005), and with an MSc in Geophysics from Stanford University (2008). After completing his MSc, he went into industry for 5 years with Spectraseis working on passive seismic research and processing. In early 2014, he returned to academia to begin a PhD at UWA. He was awarded a UWA International Postgraduate Research

Scholarship, an Australian Postgraduate Award and a UWA Safety-net-top-up Scholarship. Ben has contributed to various aspects of geophysics working on active and passive seismic projects, as well as near-surface studies and archaeological geophysics investigations. He has (co)-authored six peer-reviewed journal publications, 17 extended abstracts and submitted three patents. Ben is active in the geophysical community,

having reviewed articles for various journals and conference abstracts. He was also the SEG Student Chapter vice-president while at Stanford, and currently holds the same position within the UWA SEG Student Chapter. He has contributed to the geophysical work within the WA community and promotes its value for cultural and heritage purposes.

*John Joseph on behalf of Kathlene Oliver (WA Branch President)*

## Australian Capital Territory

ASEG ACT student branch member **Jack Muir** has been awarded a scholarship by the General Sir John Monash foundation for 2015. The foundation assists future Australian leaders in completing overseas postgraduate study. Between 12 and 15 scholarships are awarded each year, to the value of \$60 000 p.a. for up to 3 years. Jack has recently completed his Honours year at the ANU, and hopes to continue his research by developing new statistical methods to solve problems in seismic tomography. Jack intends to complete a PhD at the California Institute of Technology, and eventually return to the Australian geophysics community. We wish Jack well with his studies.

Geoscience Australia hosted **Professor Alan Jones**, Head of Geophysics at the Dublin Institute of Advanced Studies, on 17 November. Professor Jones presented 'Modelling the lithosphere constrained by topography, surface heat flow, geoid, gravity, seismology and magnetotellurics within a self-consistent petrological-geophysical framework', which was based on his presentation at the International Conference on Continental Dynamics

earlier in 2014. The local branch organised afternoon tea and dinner with Alan during his visit.

The ACT branch held an ASEG promotional event on 26 November at Geoscience Australia where four talks were presented to an audience including various specialities of earth science, students, engineers and education professionals. Speakers included: **Richard Blewett** 'Progress in deep seismic reflection transects across Australia', **Ian Roach** 'AEM and its application to potash exploration in Australian salt lakes', **Tony Meixner** 'Stavely geophysical acquisition – mapping cover thickness prior to drilling' and **Sanjay Govindan**, Student Scholarship Winner speaking about his research.

During the promotional event ACT local branch gifts were handed out. Gifts were given to: **Tim Jones** for his work organising the Federal Executive AGM here in April as well as his student contributions; **Phil Wynne** for his support of the local branch activities, particularly with the scholarship awards

and set up of events; **Guy Holmes** for his fantastic work in *Preview*; **Tania Dhu** for representing the local branches at the Federal level; and **Carina Kemp** for her work with the Federal Executive as well as her work here at the local level. We also thanked every ASEG member who works hard to ensure we have a society that promotes the science of geophysics, throughout Australia, fosters fellowship and co-operation between geophysicists, encourages closer understanding and co-operation with other earth scientists and assists in the design and teaching of courses in geophysics – THANK YOU.

Christmas for the ACT branch will be a combined ASEG-PESA 'back to the 1920s' with a themed Christmas Party at Kamberra Winery on Friday 5 December 2014. Tickets are \$50 for members. Contact **Millie Crowe** for more details.

The ACT branch of the ASEG wishes you a Merry Christmas and happy and safe holidays.

*Marina Costelloe (ACT Branch President) and Millie Crowe (ACT Branch Secretary)*

## New South Wales

In September, **Brian Minty** from Minty Geophysics gave his OzSTEP workshop on the basics of radiometrics. After a day of enlightening the workshop attendees, Brian then gave a talk in the evening on 'Developments in airborne gamma-ray spectrometry'. Brian spoke about aspects of radiometrics that currently have his interest, such as how to reduce noise in multichannel airborne gamma-ray spectra, as well as the automatic detection of radioelement anomalies and on the 3D inversion of airborne gamma-ray spectrometric data to elemental

concentrations on the ground. Many questions and discussion followed his presentation.

In October, we held our student night and the following students spoke. All talks were well presented and much discussion followed over beers and wine.

**Rhiannon Garrett**: 'Numerical modelling of salt tectonics: understanding the impact of salt's thermal conductivity on temperature distribution' (Sydney University)

**Benjamin Patterson**: 'Geophysical investigation of the Woodend base metal occurrences' (Macquarie University)

An invitation to attend NSW Branch meetings is extended to interstate and international visitors who happen to be in town at that time. Meetings are held on the third Wednesday of each month from 5.30 pm at the Rugby Club in the Sydney CBD. Meeting notices, addresses and relevant contact details can be found at the NSW Branch website.

*Mark Lackie (NSW Branch President)*

Date	Branch	Event	Presenter	Time	Venue
<b>2015</b>					
15–18 Feb	WA	ASEG-PESA Conference			Perth Convention Exhibition Centre ( <a href="http://www.conference.aseg.org.au/">http://www.conference.aseg.org.au/</a> ).
18 Mar	NSW	Branch Meeting and technical presentation	TBA	1730 till late	Rugby Club, Rugby Place, Off Pitt Street, Sydney ( <a href="http://www.rugbyclub.com.au/">http://www.rugbyclub.com.au/</a> ).
15 Apr	NSW	ASEG AGM and technical presentation	TBA	1730 till late	Rugby Club, Rugby Place, Off Pitt Street, Sydney ( <a href="http://www.rugbyclub.com.au/">http://www.rugbyclub.com.au/</a> ).

TBA, to be advised (please contact your state branch secretary for more information).



Australian Society of  
Exploration Geophysicists

## RESEARCH FOUNDATION

All geophysics students at Honours level and above

You are invited to apply for ASEG RF grants for 2015

**Closing date 27 February 2015**

Awards are made for:

- BSc(Hons) Max. \$5000 (1 year)
- MSC Max. \$5000 per annum (2 years)
- PhD Max. \$10 000 per annum (3 years)

Application form and information at:

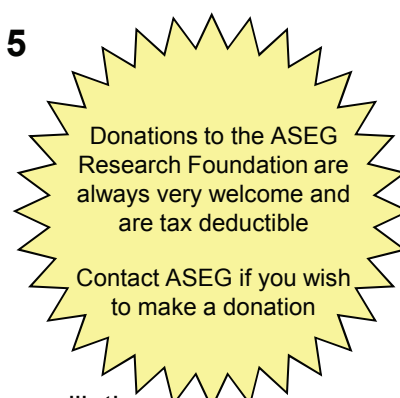
<http://www.aseg.org.au/research-foundation>

Awards are to project specific applications, and reporting and reconciliation is the responsibility of the supervisor

Any field related to Exploration Geophysics considered  
e.g. Petroleum, Mining, Environmental, Engineering

Applications must be electronic and on the application form

**Email to Doug Roberts (Secretary ASEG RF): [dcrgeo@tpg.com.au](mailto:dcrgeo@tpg.com.au)**



## ASEG Research Foundation

### Goal

To attract high-calibre students into exploration geophysics, and thus to ensure a future supply of talented, highly skilled geophysicists for industry.

### Strategy

To promote research in Applied Geophysics, by providing research grants at the BSc(Hons), MSc and PhD levels (or equivalent).

### Management

The ASEG RF Committee comprises ASEG members from mining, petroleum and academic backgrounds, who serve on an honorary basis, and who share the administrative costs to spare Research Foundation funds from operating charges. The funds are used in support of the project, for example, for travel costs, rental of equipment, and similar purposes. Funds must be accounted for and, if not used, are returned to the ASEG Research Foundation.

## History articles in *Preview*

An early project of high priority for the History Committee was the compilation of all the items of historical interest in past issues of *Preview*. In addition to feature articles and anniversary articles (many by our prolific historian, Doug Morrison), obituaries were included as they invariably contain historical information.

The first compilation, starting with the first digitised issue of *Preview* (August 1988) and finishing with the issue for October 2013, is appended below. In the digital version of this article, which is available on line, each item is directly linked to the appropriate issue of *Preview*. The list consists of 70 items

from 113 issues, with some issues having more than one item. The list will be up-dated periodically.

*Roger Henderson and Anne-Marie Anderson-Mayes*  
[history@aseg.org.au](mailto:history@aseg.org.au)

Issue no.	Starting page	Title	Type
53	35	<a href="#">A fortunate life in seismic - Part I (an interview with Bob Sheriff)</a>	Interview
54	30	<a href="#">A fortunate life in seismic - Part II (an interview with Bob Sheriff)</a>	Interview
54	12	<a href="#">Reg Sprigg</a>	Obituary
61	35	<a href="#">William (Bill) Stuart</a>	Obituary
87	8	<a href="#">Eric Blazey 1906-2000 (by Bill Langron)</a>	Obituary
87	8	<a href="#">Dave Dekker 1951-2000 (by Sharyn Dawson)</a>	Obituary
89	12	<a href="#">Geoff Dickson 1938-2000 (by Peter Dalhous)</a>	Obituary
95	15	<a href="#">Adelmo Agostini 1941-2001 (by Steve Webster)</a>	Obituary
96	11	<a href="#">Wilfred Parkinson 1919-2001 (by Charles Barton &amp; Max Banks)</a>	Obituary
97	12	<a href="#">Samuel Carey 1911-2002 (by Patrick Quilty)</a>	Obituary
98	23	<a href="#">Geological Survey of Victoria celebrates 150 years of achievement</a>	Article
99	16	<a href="#">Fifty Years Of Potential Field Modelling (David A. Pratt)</a>	Article
100	11	<a href="#">Norm Uren retires</a>	Article
100	12	<a href="#">Stanley Ward</a>	Obituary
100	6	<a href="#">The History of Preview</a>	Article
107	10	<a href="#">Hugh Doyle 1927-2003 (by John Glover)</a>	Obituary
108	9	<a href="#">Rodney Tuson 1941-2003 (by Bob Richardson)</a>	Obituary
109	14	<a href="#">Geophysical Anniversaries - Doug Morrison</a>	Article
110	15	<a href="#">Geophysical Anniversaries - The magnetic shoal near Bezout Island (Doug Morrison)</a>	Feature
111	18	<a href="#">Geophysical Anniversaries - 140 years ago - Neumeyer (Doug Morrison)</a>	Article
111	11	<a href="#">James Dooley 1919-2004 (by Barry Drummond)</a>	Obituary
111	13	<a href="#">Bernie Milton 1920-2004 (by Nick Dunston, Reg Nelson &amp; Dave Cockshell)</a>	Obituary
112	28	<a href="#">Geophysical Anniversaries - 175 years ago - R W Fox (Doug Morrison)</a>	Article
113	18	<a href="#">Geophysical Anniversaries - 101 years ago on the island of Mauritius (Doug Morrison)</a>	Feature
114	23	<a href="#">Geophysics at Newmont - a history of innovation and development (Part I, 1946-1975)</a>	Feature
114	21	<a href="#">Geophysical Anniversaries - 70 years ago - 'Southern Cross' (Doug Morrison)</a>	Feature
115	16	<a href="#">90 years ago - some pioneering field trips (Part I) (Doug Morrison)</a>	Feature
115	19	<a href="#">Geophysics at Newmont - a history of innovation and development (Part II, 1975-2005)</a>	Feature
116	20	<a href="#">90 years ago - some pioneering field trips (Part II) (Doug Morrison)</a>	Feature
116	12	<a href="#">Willem Verhoeff 1930-2005 (by Norm Uren)</a>	Obituary
116	13	<a href="#">Keiiti Aki 1930-2005 (by Dave Denham, Koya Suto &amp; John McDonald)</a>	Obituary
117	17	<a href="#">90 years ago - some pioneering field trips (Part III) (Doug Morrison)</a>	Feature
118	19	<a href="#">Farewell to WMC (Lisa Vella)</a>	Feature
119	29	<a href="#">Some old books - late 19th C (Doug Morrison)</a>	Feature
120	18	<a href="#">Paul Passalsky: a young man's legacy to geophysics (Doug Morrison)</a>	Feature
120	9	<a href="#">Anita Heath 1955-2005 (by Craig Dempsey)</a>	Obituary
121	21	<a href="#">Neumayer: pioneer exploration geophysicist (Part 1) (Doug Morrison)</a>	Feature
122	12	<a href="#">Neumayer: pioneer exploration geophysicist (Part 2) (Doug Morrison)</a>	Feature
123	17	<a href="#">Neumayer: pioneer exploration geophysicist (Part 3) (Doug Morrison)</a>	Feature
123	14	<a href="#">Edward Burnside 1919-2006 (by Ian Pontifx, Keith Yates &amp; Chris Haslam)</a>	Obituary

*Continued*





Issue no.	Starting page	Title	Type
124	32	Neumayer: pioneer exploration geophysicist (Part 4) (Doug Morrison)	Feature
124	10	Desmond Rowston 1923-2006 (by Stewart Gunson)	Obituary
125	34	Neumayer: pioneer exploration geophysicist (Part 5 - final) (Doug Morrison)	Feature
126	39	Jack Rayner and the Imperial Geophysical Experimental Survey (John Rayner)	Feature
126	9	Anton Hales 1911-2006 (by Ted Lilley)	Obituary
126	14	Satoru Ohya 1932-2006 (by Koya Suto)	Obituary
127	33	Jack Rayner in America, 1945 (John Rayner)	Feature
128	34	Jack Rayner and AGGSNA (John Rayner)	Feature
129	36	Geophysicists at war: mines, magnetism and memories - Part 1 (John Rayner)	Feature
129	8	Lawrence Drake 1931-2007 (by Keeva Vozoff, Jim Tayton & Edward Bowen)	Obituary
130	32	Geophysicist at war: mines, magnetism and memories - Part 2 (John Rayner)	Feature
137	35	Paleomagnetism 1958 revisited: a Golden Anniversary (Ted Lilley)	Article
142	8	Tony Barringer 1925-2009 (by Roger Henderson)	Obituary
145	12	Turhan Taner 1928-2010 (by Roy and Judy Farrell)	Obituary
145	11	Ken Seedsman 1929-2010 (by Keith Johns)	Obituary
148	45	My first shot (seismic refraction) (Peter Gunn)	Article
148	10	Shanti Rajagopalan 1960-2010 (by David Boyd)	Obituary
150	9	History of Preview - 25 years and 150 issues (Ann-Marie Anderson Mayes)	Article
150	33	History of seismic resolution (John Denham & Les Denham)	Feature
150	6	Remembering Grahame Sands	Memorial Tribute
150	7	Craig Hoffman 1961-2010 (by Mike Harch & Kelly Keates)	Obituary
152	11	Duncan Crone 1929-2011 (by Roger Henderson)	Obituary
152	11	Len Collett 1922-2011 (by Roger Henderson)	Obituary
154	7	Harold O Seigel 1924-2011 (by Chris Nind et al)	Obituary
157	13	Stewart Gunson 1925-2012 (by Norm Uren)	Obituary
158	11	George Keller 1927-2012 (by Roger Henderson & Charles Stoyer)	Obituary
160	9	Peter Elliott 1954-2012 (by Kim Frankcombe)	Obituary
161	8	Jodie Gillespie 1972-2012	Obituary
163	21	Geophysical instruments in the National Historical Collection (Denis Shephard)	Feature
164	22	Three magnetometers from Australia's Historical Collection (Denis Shephard)	Feature
166	39	The first official recommendation to establish exploration geophysics in institutions in Australia (Roger Henderson)	Feature