

Lots of thanks for a good year in 2013

This is the first issue of *Preview* in 2014. The year 2013 was a good year for the ASEG.

We had a successful conference in August. Thanks to the Organising Committee. The ASEG journal *Exploration Geophysics* continued to improve its impact factor. It is now added to SEG's Digital Library. Thanks to Phillip Schmidt, Chairman of Publication Committee; Mark Lackie, the Managing Editor; associate editors, publisher, authors and reviewers.

The bi-monthly publication, *Preview* magazine, both entertained and informed us of the latest news within the geophysical community. Thanks to John Theodoridis, editor, and all the contributors.

Co-published with the SEG, we produced our first e-Book, *Geological Interpretation of Aeromagnetic Data*, by David Isles and Leigh Rankin. Thanks to all those involved.

The new website is up and running with improvements all the time. Thanks to Carina Kemp, webmaster.

In 2013, the ASEG saw another first with an initiative by *Continuing Education*: the ASEG Specialist Travelling Education Programme (OzSTEP). These courses proved successful in all the state branches, with more still to come. Thanks to the lecturers, Mike Astin and Dennis Cooke, and Wendy Watkins of *Continuing Education* for organising the courses. Thanks also to Wendy Watkins for organising the SEG Distinguished and Honorary Lecturer tours. These events needed collaboration with state branches. Thanks to the branch executives and Philip Heath for their coordinating roles.

The ASEG also contributed to the Australian Geoscience Council (AGC), which joined Science & Technology Australia this year. Thanks to Michael Astin, Kim Frankcombe and Greg Street for representing the ASEG.

In addition, the ASEG continued its contribution to the Teacher Earth Science Education Program (TESEP) and Australasian Universities Geoscience

Educators Network (AUGEN). Thanks to Mark Tingay for liaising with them.

In the Federal Executive, Katherine McKenna busied herself tidying up the membership database, enabling subsequent incorporation into the online system by Carina Kemp. The membership renewal process commenced late due to this work and the setting up the new system on our website. Thanks to Katherine McKenna and Carina Kemp for the hard work.

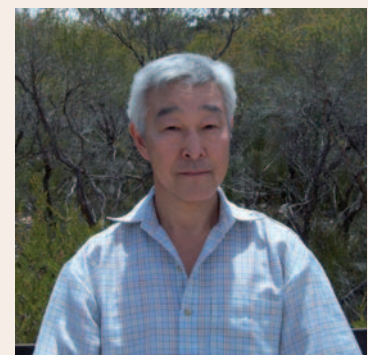
Over the past 10 years, the role of the ASEG secretariat expanded as our membership grew and we do much more than the Centre for Association Management (CASM) started 10 years ago. Thanks to Ron Adams of CASM for the service for the past 10 years. Since December last year, the Federal Executives are working hard to find a new secretariat with extended scope to improve member service. By the time this issue of *Preview* is on your desk, this should have been close to conclusion. Thanks to Kim Frankcombe, Barry Drummond and Greg Street for taking on this onerous task. All these achievements could not have taken place without healthy funds and support from members. Thanks to our Federal Treasurer, Reece Foster, and all the supporting members.

To me this year was full of visits and conference attendances in both official and unofficial capacities. I have already reported on SEGJ's 65th anniversary (Tokyo, May); EAGE (London, June), Near-Surface Geophysics Asia Pacific (Beijing, July) and SEG (September). In November, SEGJ had its 11th International Symposium in Yokohama. Unfortunately, I was invited to another overlapping conference in Japan, so Greg Street represented the ASEG in this symposium. Meantime, I was in Akita for the International Conference on Materials Engineering for Resources. Then I visited Ulaanbaatar, Mongolia to visit the Mongolian Geophysical Society to sign our association agreement.

The SEG's first Near-Surface Geophysics Conference Asia Pacific in July was a good success with close to 300 delegates, mostly from China. This brought a

modest surplus to the ASEG as a financial partner. The next conference is in Hawaii in 2015 and then in Australia in 2017. If you are interested in the near-surface geophysical fields, consider to be a part of the organisation well ahead of time.

In the SEG, I perform the role of Chairman of the Global Affairs Committee to promote geophysics and society activities. As you know, more than half of the SEG membership base resides outside of North America. This is perhaps of no surprise as more than half of geophysicists are outside of North America. One of the things the SEG offers is free subscription to 15 of their online publications. One of them is *Carrying the Torch* a newsletter of the SEG Foundation, which is like our Research Foundation, which also informs members of the latest activities with the SEG. The updates of the Geophysicists without Borders (GWB) are covered by *GWB News*. A few of the projects of GWB took place in Australia, which may be of interest of the members. Others include information on SEG publications, meetings, students and other community activities. These are open to you even if you are not a SEG member. To receive the latest news in the world of the geophysical community, visit the link: <http://www.seg.org/resources/enewsletters/extra/web-collect/subunsubmultiplelists>. From this link, you can browse past issues without committing to a subscription.



Koya Suto
ASEG – President
president@aseg.org.au

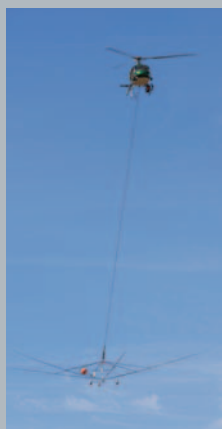


Signing association agreement with Dr Tesdenbaljir, President of the Mongolian Geophysical Society.



Koya Suto in Chinggis Khaan armour in front of his huge boot.

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New members

The ASEG extends a warm welcome to the nine new individual members approved by the Federal Executive on 12 December 2013 (see table).

Name	Organisation	Country	Member grade
Hani Abul Khair	University of Adelaide	Australia	Active
Ian Cameron-Smith	Gnomic	Australia	Active
Shane Chambers	–	Australia	Student
Sarawute Chantayord	CGG	Australia	Active
Ida Hooshyari Far	–	Australia	Student
Caroline Jackson-Hicks	International Geoscience	Australia	Active
Jeremy Kuan Ming Lee	–	Australia	Student
Alexandre Steven Lemenager	–	Australia	Student
Simone Pila	–	Australia	Student

Notice of Annual General Meeting (AGM)

The 2014 AGM of the Australian Society of Exploration Geophysicists (ASEG) will be held in Canberra on Thursday 10 April 2014. The meeting will be hosted by the ACT Branch at the Ivy lake view café, Old Canberra House, Lennox Crossing, ANU Campus (www.ivy-cafe.com.au). Drinks will be available from 5.30 pm and the meeting will begin at 6.00 pm.

The business of the Annual General Meeting will include:

- To confirm the minutes of the last preceding general meeting;
- 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 Constitution and to law;
- To consider and if agreed approve two changes to the ASEG Constitution;
- To report the ballot results for the election of the new office holders for the Federal Executive;
- To confirm the appointment of auditors for 2013.

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

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

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

These officers are elected annually by a general ballot of members. Greg Street was elected as President-Elect in 2013 and as such will stand for the position of President.

The following offices are also recognised:

- (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.

Nominations for all positions 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
17 Hayward Street
Macgregor ACT 2615
T: 04 2279 1343 | E: fedsec@aseg.org.au

Nominations must be received via post, fax or email **no later than COB Tuesday 9 March 2014**. Positions for which there are multiple nominations will then be determined by ballot of Members and results declared at the Annual General Meeting.

Proposed Changes to the Constitution

The ASEG Federal Executive will propose two changes to the Society’s Constitution at the AGM.

Change to Clause 5.11 which refers to Office Bearers of the Society.

This proposed change will allow Associate and Student members to hold office.

Clause 5.11 currently reads:

5.11: OFFICE BEARERS

Active Members, Honorary Members, Retired Members, Corporate and Corporate-Plus Members shall be eligible to hold any office, to vote on all matters submitted to the membership, to petition the Federal Executive on any matter, and to publish their affiliation with the Society.

For the purposes of the above, Corporate and Corporate-Plus Members may nominate a

representative who will act on the Member’s behalf from time to time, by notice in writing to the Society.

This change has been discussed and supported at the last two meetings of the ASEG Council. In forming a new version of Clause 5.11, the Federal Executive considered two issues: to allow any financial member, particularly younger members, to take part in the running of the Society as requested by Council, but to ensure that they had enough relevant experience.

The relevant Clause of the Constitution, as amended will read:

5.11: OFFICE BEARERS

Any financial member shall be eligible to hold any office, to vote on all matters submitted to the membership, to petition the Federal Executive on any matter, and to publish their affiliation with the Society.

Members who have less than 5 years membership in the Society cannot hold the office of President of any of the Federal or Branch Executives or Chair of Specialist Group; Federal Executive may agree on a case by case basis to allow Members with less than 5 years membership of the Society to hold the Office of President of a Branch or Chair of a Specialist Group but will appoint mentors for them.

For the purposes of this Clause 5.11, Corporate and Corporate-Plus Members may nominate a representative who will act on the Member’s behalf from time to time, by notice in writing to the Society.

Change to Clause 15, which deals with By Laws.

The Federal Executive has the power under Clause 15 of the Constitution to create By Laws for this purpose.

15 BY-LAWS

The Federal Executive may make such By-Laws as it deems necessary for the proper management of the Society, provided that the By-Laws do not conflict with the Constitution.

The Federal Executive can pass By-Laws setting out detailed procedures for the conduct of the Society's affairs, and generally to give effect to the Objects. Those By-Laws will be binding on members subject to the following qualifications —

Nothing in a By-Law shall give the Federal Executive or any officer of the Society any larger powers than are conferred by the Constitution;

In the case of any inconsistency between the Constitution and any By-Law, the Constitution shall prevail;

The Society in General Meeting may disallow any By-Law passed by the Federal Executive.

Note that although Clause 15 of the Constitution currently allows the Federal Executive to make By Laws and allows members of the Society to subsequently disallow the By Laws, it does not require the Federal Executive to notify members that the By Law exists or has been changed.

The Federal Executive therefore recommends to that the Constitution of the Society be changed by the insertion

of an additional Paragraph in Clause 12, such that the last two paragraphs of the amended Clause 12 will read:

The Federal Executive will publish any new By Law or amendments of an existing By Law in the Society's magazine Preview as soon as practicable after it makes or amends a By Law.

The Society in General Meeting may disallow any By-Law passed by the Federal Executive.



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Australian Capital Territory

To celebrate the end of 2013, the ASEG's ACT branch hosted a joint Christmas Party with PESA at the Mt Stromlo Observatory. Unfortunately, the only stars out were ASEG committee members, but cloudy conditions made for a beautiful sunset over the Brindabella Ranges. The gauntlet was thrown down by branch Secretary, Millie Crowe, and PESA accepted the challenge for a debate in the New Year. We look forward to witty remarks, playful puns and an all-round entertaining evening as ASEG goes head to head with PESA.

December saw the birth of ACT's newest and lightest member, Esmé Kemp. She spends most of her time eating, sleeping, and becoming overwhelmed by her senses. Her activity is cuddling and on weekends she plays peek-a-boo with the President of ACT ASEG Branch.

2013 was a great year for the ACT branch with new members, more social events and record breaking interest from over five new student members! We look forward to 2014 being even bigger and better, with a fine line-up of technical talks, an AGM in February, the SEG Honorary Lecture in March, and for the first time we'll be hosting the Federal Executive AGM – a chance to prove the ACT has more than roundabouts and government buildings! (There's also a lake.)

Millicent Crowe & Tim
ACT Branch Secretary & Treasurer

New South Wales

In November, John Triantafyllis from the UNSW School of Biological, Earth and Environmental Sciences gave a talk on 2-D and 3-D digital soil mapping (DSM) using electromagnetic (EM) induction instruments and inversion modelling. John presented case studies on how joint-inversions of EM38 and EM31 data can provide useful information about soil variation at the field level and similarly how EM38 and EM34 data can provide equivalent information at the district scale.

In December, Ron Hackney from Geoscience Australia (Basin Resources Group, Energy Division) gave a talk on 'New geophysics in the Browse Basin'. Ron outlined how Geoscience Australia is currently undertaking a study of the CO₂ and petroleum prospectivity of the Browse Basin. A new aeromagnetic survey over a large part of the Browse Basin has recently been completed, and

new 'process-oriented' gravity modelling of the basin has been initiated. Ron discussed how initial modelling shows that observed and calculated gravity matches best over the Caswell Sub-basin if the lithosphere was weak throughout the deposition of post-rift sediments.

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 1730 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

Victoria

On Wednesday 13 November 2013, Theo Aravanis from Rio Tinto Exploration presented an introduction to the work of the Ground Geophysical Survey Safety Association (GGSSA). All present agreed that this was an initiative whose time has finally come, as airborne geophysics and seismic acquisition has already seen the successful development of similar organisations.

On Wednesday 11 December 2013, it was once again time to let the hair down at our Annual ASEG-PESA-SPE Societies Christmas Lunch at the Victoria Hotel in Melbourne's CBD. Steve Henzell (WorleyParsons and SPE President) gave a very interesting account of the History of Oil and Gas Exploration and Development in Victoria.

In January, when thoughts are typically occupied by other matters than geophysics, we were never-the-less fortunate to have Perth-based Andrew Long from PGS passing through Melbourne. Prompted by Andrew's presence we quickly established a

collaborative effort with our European sister society and offered the EAGE-ASEG one-day course on 21 January 2014: 'Broadband seismic: a platform to understand, measure, compare and exploit the options available today and tomorrow'. A total of 11 attendees from service companies, petroleum companies and government organisations enjoyed a day at the Victoria Hotel with many insights into the newest developments in this area of geophysics. Neither did Andrew miss the opportunity to spruik the ASEG-PESA Conference in Perth in February 2015!

It will be a busy schedule for the ASEG Victoria Branch in 2014:

On Wednesday 12 February 2014, it is time to get reconnected with your geophysical network at the joint ASEG-PESA-SPE Summer Social Function at the Boatbuilder's Yard in Melbourne's South Wharf. Entry will be free for paid-up ASEG members, but registration is mandatory by 7 February 2014 at vicpresident@aseg.org.au.

On Friday 14 March 2014, we are looking forward to host SEG 2014 Pacific South Honorary Lecturer Sandeep K. Chandoola from Petronas, who will present 'Marine seismic acquisition: expanding the possibilities!'. This will be a noon-time lunch meeting at the Victoria Hotel.

On Wednesday 16 April 2014, you really should not miss Richard Schodde from MinEx Consulting presenting 'The rise and rise of geophysics: an overview of minerals exploration trends over the past century'. This will be an evening meeting at the Kelvin Club starting at 1800 (drinks and nibbles) for an 1830 technical presentation.

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

Ashbjørn Nørhørd Christensen
VIC Branch President



Andrew Long of PGS presenting the one day EAGE-ASEG short course on Broadband Seismics, held in Melbourne on 21 January 2014.

Western Australia

The WA Branch has been enjoying the festive season and taking a bit of break, but we're back now and have a busy Tech Night schedule already planned. Check out the branch calendar in this section for talk details; note that these may change as speakers sometimes have to reschedule. We'll also be sending out our regular event notices which have been revamped for 2014. If you're not already signed up and you're interested in what's happening in WA, please feel free to subscribe at <http://eepurl.com/nleOD> (see QR code).

We had a great Christmas Party at City Farm in December and enjoyed some

tasty wood-fired pizza and refreshing ales in the pre-Christmas heat wave. We welcomed Kristian Madaschi, Andrew Pethick and Garrett Kramer who joined the WA committee this year. Many thanks to Tim Dean who left us for an overseas posting this year.

2014 will continue to be busy for our conference organising committee who are beaver away on preparations for the February 2015 conference being held in Perth. You can find out all the latest at www.conference.aseg.org.au.

We hope to host several workshops this year both minerals and petroleum, so look out for further information on that front.

In the meantime, enjoy the start to 2014 and keep cool and safe.



Anne Tomlinson
WA Branch President

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ASEG national calendar: technical meetings, courses and events

Date	Event	Presenter	Sponsor	Time	Venue
2014					
12 Feb	Joint ASEG-PESA-SPE Summer Social Function (Registration by 7 Feb)	–		1730–2030	South Wharf Melbourne
12 Feb	'Image improvements of poor quality legacy seismic data – a case study from the onshore Otway basin, SA'	Peter Strauss, Aus Geos, Adelaide		1730–1900	City West, West Perth
26 Feb	TBA	Brian Spies		1800	The Rugby Club, Sydney
9 Apr	(1) Recent advances in multi-dimensional geoelectrical imaging methods (2) Introduction to the Ground Geophysical Survey Safety Association (GGSSA)	(1) Meng Heng Loke, Geotomo Software, Kuala Lumpur (2) Katherine McKenna, GPX Surveys, Perth		1730–1900	City West, West Perth
16 Apr	'The Rise and Rise of Geophysics: an Overview of Minerals Exploration Trends over the Past Century'	Richard Schodde from MinEx Consulting		1800	Kelvin Club, Melbourne
14 May	TBC			1730–1900	City West, West Perth
11 Jun	Albany-Fraser MT and seismic surveys	Catherine Spaggiari, GSWA, Perth		1730–1900	City West, West Perth
9 Jul	Frequency-domain full waveform inversion: applications to marine and land seismic experiment	Rie Kamei, UWA, Perth		1730–1900	City West, West Perth
13 Aug	Humanitarian geophysics	Jeff Shragge, UWA, Perth		1730–1900	City West, West Perth
10 Sep	New logging and sensing technologies for mineral exploration	Brett Harris, Curtin University, Perth		1730–1900	City West, West Perth
8 Oct	TBC			1730–1900	City West, West Perth
13 Nov	Honours and Masters Students Research Presentations	Various		1730–1930	City West, West Perth
10 Dec	AGM and Christmas Party			1730–2030	TBC
2014 SEG Pacific South Honorary Lecturer: 'Marine seismic acquisition: expanding the possibilities!' Sandeep K. Chandola, PETRONAS, Carigali, Kuala Lumpur, Malaysia (http://www.seg.org/education/lectures-courses/honorary-lecturers/2014)					
Date	State branch	–	–	Time	Venue
12 Mar	WA: Perth			1730–1900	City West, West Perth
13 Mar	SA: Adelaide			TBA	TBA
14 Mar	VIC: Melbourne			Noon	The Victoria Hotel
17 Mar	ACT: Canberra			TBA	TBA
19 Mar	NSW: Sydney			1800	The Rugby Club
18 Mar	QLD: Brisbane			TBA	TBA
14 Apr	TAS: Hobart			TBA	TBA
SEG Distinguished Instructor Short Course (DISC) 2014: 'Microseismic imaging of hydraulic fracturing: improved engineering of unconventional shale reservoirs' Shawn Maxwell, Schlumberger (http://www.seg.org/education/lectures-courses/disc)					
Date	State branch	–	–	Time	Venue
28 Apr	WA: Perth			TBA	TBA
30 Apr	VIC: Melbourne			TBA	TBA
05 May	SA: Adelaide			TBA	TBA

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

ASEG Specialists Travelling Education Programme (OzSTEP)

A successful inaugural year!

In 2013, the ASEG introduced the OzStep courses for the benefit of members throughout Australia. Two one-day courses were offered to the state branches for their respective members. Six states offered the courses, with Dennis Cooke's course, 'Interpreting seismic amplitudes', presented in WA, SA, VIC and the ACT and Michael Asten's Minerals Geophysics course, 'Introduction to geophysics for explorationists', presented in Qld, Vic, Tas and the ACT.

These courses had been a compact one-day overview of the respective minerals and petroleum specialist subjects, presenting many examples and some practical demonstrations. To accommodate different levels of experience, participants

received comprehensive notes to review topics for further information and reading, as per individual requirement.

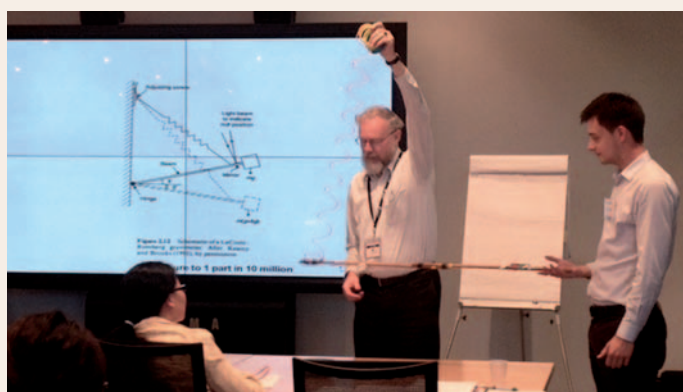
In total, over 90 participants attended the courses, including around 20 students, with good feedback from participants, including:

- *Great presenter, good use of props, great course.*
- *Good to see the ASEG running these educational courses.*
- *Excellent course – good content, good pace, well explained with excellent visual experiments in class.*
- *Very well presented. Remained interested for entire course. I felt engaged throughout the day.*

- *The course content was excellent, with many real world examples shown. Would recommend this course highly.*
- *I thoroughly enjoyed the day and would recommend this course. Wish I did it 15 years ago.*
- *An excellent course initiative by ASEG – keep it going please!*

The ASEG is planning to continue the OzStep initiative into 2014; presenters are currently being selected for a minerals and a petroleum course.

Wendy Watkins
Continuing Education
continuingeducation@aseg.org.au



SEG Distinguished Instructor Short Course 2014

Shawn Maxwell: Schlumberger

The SEG DISC Committee is pleased to offer the Australian SEG - Western Australia an opportunity to participate in the seventeenth annual SEG Distinguished Instructor Short Course (DISC), 'Microseismic imaging of hydraulic fracturing: improved engineering of unconventional shale reservoirs', by Shawn Maxwell of Schlumberger. In his current role, Shawn Maxwell is Chief Geophysicist and Microseismic Advisor for

Schlumberger's Microseismic Services corporate business unit, and is based in Calgary, Alberta. SEG and your local society are proud to provide this premier course in passive microseismic, hydraulic fracturing and unconventional shale reservoirs. A description of the course and a biography of the instructor can be found by visiting www.seg.org/disc. SEG publications office is in the process of producing bound course notes that will accompany Shawn's course and also

available for purchase in the SEG Book Mart.

Tour dates*:

28 April 2014, Perth
30 April 2014, Melbourne
5 May 2014, Adelaide

**Participants are advised to confirm dates and details with their WA, SA and VIC ASEG Branches.*