

## President's piece



Marina Costelloe (far right) at the AGCC with other members of the ASEG Federal Executive.

Firstly I'd like to thank Andrew Long for representing the ASEG at the SEG 2018 conference, and Koya Suto for representing our Society at SEGJ conference, both are long term, active, trusted and valued Members of the ASEG and SEG, and do a lot to promote Australia, geophysics and the ASEG.

I was fortunate enough to attend the AGCC in Adelaide, those of you who are 'LinkedIn' with me would have seen what a busy week it was, busy but very educational. Some of the highlights were Dr James Johnson's opening address, where he explained the value of the work we do in the geosciences to all Australians, and the official opening of the MinEx CRC, the world largest mineral exploration collaboration bringing together industry, government and research organisations. It was great to see how people with very different backgrounds have found a common vision in this CRC, and I can't wait to see how it progresses over the next 10 years. It was also very exciting to listen to, and meet, Professor Iain Stewart (of BBC fame). His insights into how to tell a science story were very powerful. In short, he spoke about connecting with people and the purpose behind the work we all do. I was invited to speak at a mentoring event run by WOOMESA, hosted a Women in STEM workshop (yes blokes were there too) that will contribute to an Academy of Science decadal plan, and represented the ASEG and Geoscience Australia at the ANSIR and AuScope meetings. I saw many old colleagues and met a whole new crop ready to be converted to geophysics. Thank you to the AGC organising committee and to Dr Bill Shaw and Kim Frankcombe for their tireless efforts to get this conference up and running.

Another shout out to the committee organising the AEGC 2019 Data to

Discover Conference, thank you for your hard work. Abstracts are now open, as are sponsorship packages and workshop opportunities. As I have mentioned before, Tim Dean (ASEG) and the Perth organisers have a cracker program. Have a look at the updated website <http://2019.aegc.com.au>, Perth, 2–5 September 2019. I hope to see you there.

We are approaching the ASEG's 50th anniversary. Just in case you are too young to know, or need reminding, the ASEG will be celebrating its 50th anniversary in 2020. In preparation, we will start to see some festivities being rolled out in 2019, including special interviews with ASEG Members, memories in *Preview*, and new opportunities for all Members to get involved in the festivities. Roger Henderson and Mike Smith have published a wonderful resource called 'A brief history of the formation of the ASEG', go to: <https://www.aseg.org.au/about-aseg/aseg-formation>. Included in the appendices are the minutes of the first meeting on 4 June 1970, plus a reference to it in the ASEG Bulletin, Volume 1, Number 1, September 1970. While you are on the website have a look around, David Annetts and the web team have been very busy updating large portions. If there is material you would like to see added don't hesitate to contact [webmaster@aseg.org.au](mailto:webmaster@aseg.org.au), thank you web team.

April will see us have our AGM; details have been published in this edition of *Preview*. The Federal Executive hopes to get your support for making minor changes to the Constitution around being able to vote electronically. Details will be sent out in January. Each year we are asked 'how does the President get elected?'. Well, it is a good question, and the answer is in the Constitution (available on the website). But if you are interested, and still reading, a Presidential Nominating Committee is formed each year and consists of the President and the two most recent past Presidents. The Nominating Committee nominates candidates (ASEG Members) with the skills and experience to steer the leadership of the Society over the next 3–5 years. The Nominating Committee then approaches the preferred candidate to request that they take on the three year term (President Elect, President, and then Immediate Past President). All other Federal Executive positions are open to all ASEG Members (that's YOU). Please contact me today if you are interested in self-nominating, or

nominating someone else.

Last, but by no means least, I am very honoured to have been successfully nominated to join the Board of Science and Technology Australia (STA). The Australian Geoscience Council (AGC) is the peak council of geoscientists in Australia. It represents eight major Australian geoscientific societies, with a total membership of over 8000 individuals including industry, government and academic professionals in the fields of geology, geophysics, geochemistry, mineral and petroleum exploration, environmental geoscience, hydrogeology and geological hazards ([www.agc.org.au](http://www.agc.org.au)). I thank Bill Shaw and the AGC council for their support of my nomination to represent these eight professional societies. The appointment to the STA Board for the Geological and Geographical Sciences cluster means I get to represent the members of the Australian Geoscience Council, the Australian Quaternary Association (AQUA), the Institute of Australian Geographers (IAG), and the International Ocean Drilling Program (IODP). Science and Technology Australia's mission is to bring together scientists, governments, industry and the broader community to advance the role, reputation and impact of science and technology across the nation. Science and Technology Australia is Australia's peak body in science and technology – and if you add in the 8000 strong Geology and Geography cluster, the organisation represents about 70 000 Australian scientists and technologists working across all scientific disciplines (<https://scienceandtechnologyaustralia.org.au/>).

By the time you read this it is going to be close to Christmas, and what a year 2018 has been. I hope for you it has been a good year. If this time of year is particularly difficult for you, please reach out for help. Friends and colleagues might be able to help and there are, of course, wonderful organisations like beyondblue and Lifeline. Check in with your family and colleagues and make sure they are ok.

Wishing you and your family a Merry Christmas, happy holidays, safe travels and see you in 2019.

Marina Costelloe  
ASEG President  
[president@aseg.org.au](mailto:president@aseg.org.au)



## ASEG Federal Executive 2017–18

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Email: [secretary@aseg.org.au](mailto:secretary@aseg.org.au)

## Executive brief

The Federal Executive of the ASEG (FedEx) is the governing body of the ASEG. It meets once a month, via teleconference, to see to the administration of the Society. This brief reports on the monthly meetings that were held in October and November.

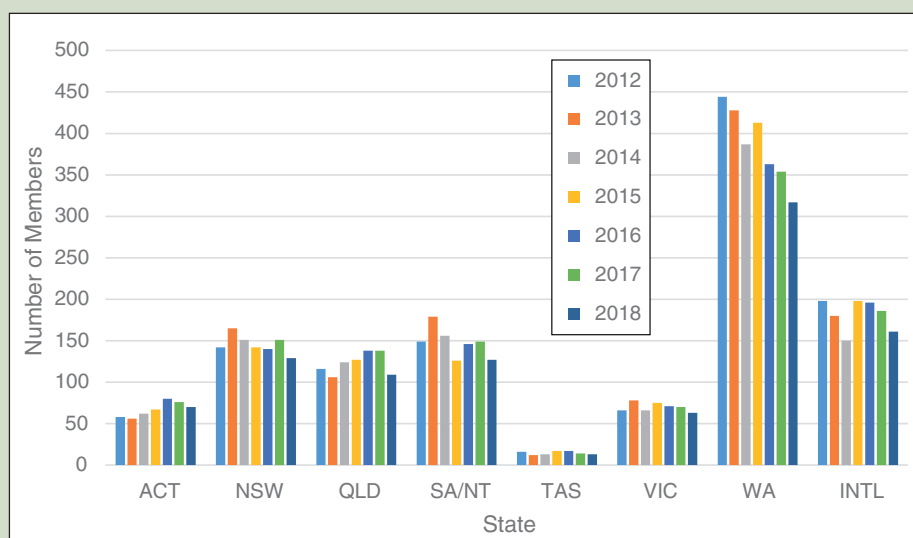
### Finances

The Society's financial position at the end of November 2018 is:

Year to date income: \$419 500.00

Year to date expenditure: \$500 042.00

Net assets: \$807 301.00



**Figure 1.** ASEG membership levels by state between 2012 and 2018.

### Membership

At the time of this report, the Society had 989 Members. This figure is up from the figure of 970 Members reported in the October issue of *Preview*. It is down 13% from last year. Numbers are down similarly across most of the States, with the least drop in membership being 7% in Tasmania, and the greatest drop in

membership being 21% drop in Queensland (Figure 1).

Retired and Honorary membership has remained constant from last year, while there has been a 4% decrease in Active/Associate Members. There has also been significant decrease in the number of Student and Corporate Members.

Thanks to all our Members for their support and we look forward to your continued support and membership renewals in 2019!

Megan Nightingale  
Secretary  
[fedsec@aseg.org.au](mailto:fedsec@aseg.org.au)

## Welcome to new Members

The ASEG extends a warm welcome to 15 new Members approved by the Federal Executive at its October and November meetings (see table).

First name	Last name	Organisation	State	Country	Membership type
Sasha	Aivazpourporgous	Newexco Pty Ltd Services	QLD	Australia	Active
Brandon	Alessio	University of Adelaide	SA	Australia	Student
Sheree	Armistead	University of Adelaide	SA	Australia	Student
Simon	Brealey	Bass Oil Limited	SA	Australia	Active
Michael	Curtis	University of Adelaide	SA	Australia	Student
Ryan	Frazier	Marine and Earth Sciences	QLD	Australia	Active
Katarina	Kosten	University of Adelaide	SA	Australia	Student
Michael	McWilliams	CSIRO	WA	Australia	Active
Thomas	Montgomery	Marine and Earth Sciences	ACT	Australia	Active
Francis	Moul	Condor North Consulting	BC	Canada	Active
Matthew	Shrimpton	University of Melbourne	VIC	Australia	Student
Darwinaji	Subarkah	University of Adelaide	SA	Australia	Student
Joshua	Valencic	GHD	NSW	Australia	Active
Xueyu	Zhao	University of Sydney	NSW	Australia	Student
Priya	Priya	University of Adelaide	SA	Australia	Student

## Notice of Annual General Meeting (AGM)

The 2019 AGM of the Australian Society of Exploration Geophysicists (ASEG) will be held at Geoscience Australia in Canberra on 4 April 2019. The meeting will be hosted by the ACT Branch. Details will be supplied via email. Drinks will be available from 16.00 and the meeting will begin at 16.30.

The business of the Annual General Meeting will be:

- 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 any 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 2018.

The AGM will be preceded by a scientific presentation, details will be advertised as they come to hand.

### Invitation for candidates for the Federal Executive

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

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

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:

- a President,
- a President Elect,
- a Secretary, and
- a Treasurer.

These officers are elected annually by a general ballot of Members. Dr Ted Tyne was elected as President-Elect in 2018 and as such will stand for the position of President.

The following offices are also recognised:

- Vice President,
- the Immediate Past President (unless otherwise a member of the Federal Executive),
- the Chair of the Publications Committee,
- the Chair of the Membership Committee,

- the Chair of the State Branch Committees, and
- 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:

Megan Nightingale  
ASEG Secretary  
Care of the ASEG Secretariat  
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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**

**Tuesday 7 March 2019.** Positions for which there are multiple nominations will then be determined by ballot of Members and the 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.

## Congratulations



Emeritus Professor Kurt Lambeck AO (Australian National University) recently won the 2018 Prime Minister's Prize for Science. This prize is very well deserved acknowledgment of a life time of great achievements by Professor Lambeck, who has had a profound impact on our Society. According to Professor Lambeck our planet changes shape every day, indeed, the planet 'breathes' as if it is alive.



Professor Dietmar Müller (Sydney University) has won the 2018 NSW Premier's prize for Excellence in Mathematics, Earth Sciences, Chemistry and Physics. Professor Müller has been an outstanding scientific leader, responsible for advancing geological and geophysical modelling that is transforming our understanding of the Earth's evolution. The work of his current research group, the Basin GENESIS Hub, was featured in the August 2018 issue of *Preview* (PV 195).

Marina Costelloe  
ASEG President



## Update from the ASEG Young Professionals Network

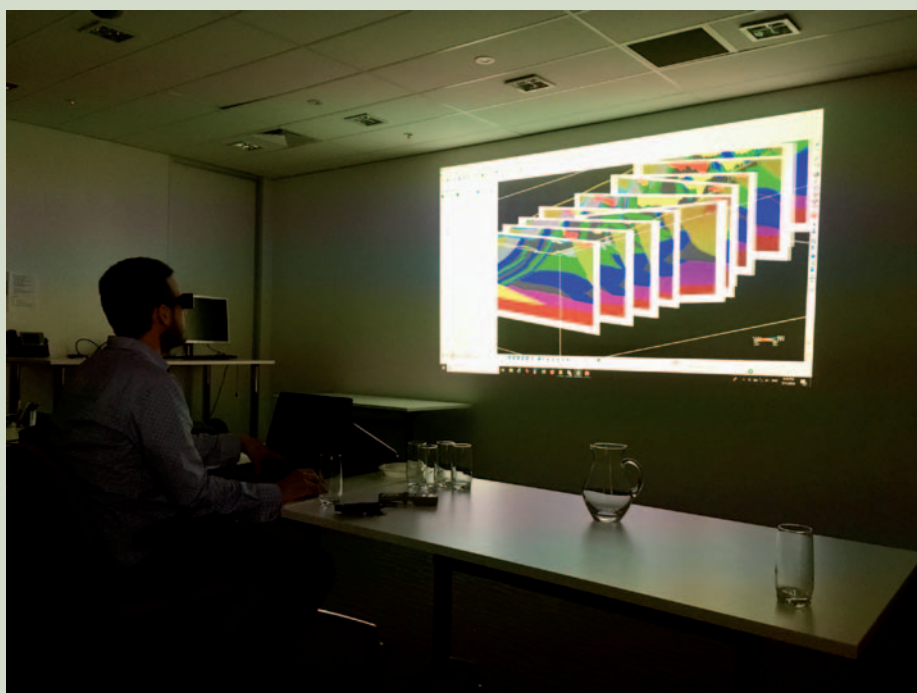
Applications are now open for the joint ASEG and PESA Queensland Mentoring Program. The program is targeting early career professionals in the geophysics and petroleum industries. We are seeking both mentees and mentors with applications closing 31 December 2018. The program will launch on 1 February 2019 and will run until 1 September 2019.

Early career professionals had a large presence at the recent AGCC event in Adelaide. As well as a booth in the exhibition hall sponsored by the AGC, there were two social events organised for the week. The first was a networking event on the Monday night that was generously supported by the GSA, AusIMM and AIG. It offered early career geoscientists and students a chance to network with more senior people from across industry, government and academia, and was attended by over 70 people. The second social event was the Trivia Night sponsored by Anglo America and held on the Tuesday night of the conference. The event was attended by 30 people and was hotly contested with the leading table changing several times during the night. Finally, the CSIRO rapid fire presentations offered students and early career geoscientists an opportunity to present their research in just three minutes! The event was hugely successful with an amazing range of talk topics offered and six well deserving winners.

The Victorian YPs have continued their seminar series with a fascinating talk integrating geology, geophysics and 3D visualisation by Ross Cayley, Phil Skladzien and Mark McLean of the GSV. Their talk was an inspiring look at a new and self-consistent model for the complex and undercover geology of the Stavely region in Western Victoria. Their work has been described in a previous edition of *Preview* but, since then, the 3D model they built and their interpretation with reference to copper mineralisation potential has led to an encouraging uptake of exploration permits in the region.

On 28 November we're looking forward to our final talk for the year from Ian Filby of CarbonNet, which will address issues in stakeholder management. We'll wrap up the year in late December with a networking and social event to review our first year of mentoring and to commence planning for local training opportunities in 2019.

*Megan Nightingale and Jarrod Dunne*  
ASEG Young Professionals Network  
[ypadmin@aseg.org](mailto:ypadmin@aseg.org)

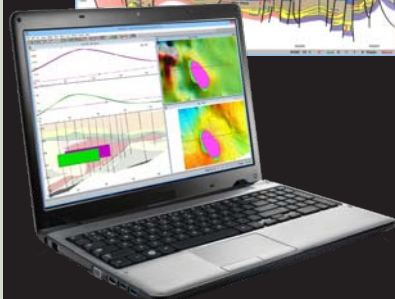
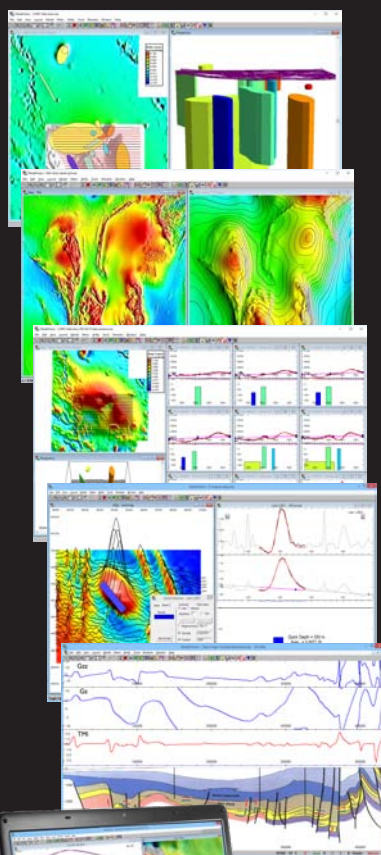


**Figure 1.** Mark McLean presenting the Stavely 3D GoCAD model using a 3D projector.

## ModelVision

### Magnetic & Gravity Interpretation System

All sensors	Minerals
Processing	Petroleum
3D modelling	Near Surface
3D inversion	Government
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**Tensor Research**

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## 2019 ASEG Honours and Awards: call for nominations now open



An important role of the ASEG is to acknowledge the outstanding contributions of its individual Members both to the profession of geophysics and to the ASEG. The Society has a number of different Honours and Awards across a range of categories. Nominations are now open for the next round of Awards, scheduled to be presented in conjunction with AEGC 2019, 2–5 September 2019, Perth, Western Australia.

All ASEG Members as well as State and Federal executives are invited to nominate those they consider deserving of these awards. A list of the various available awards is set out below.

These awards carry considerable prestige within the Society and the geoscience community and therefore require some documentation to support the nomination. Please visit <https://www.aseg.org.au/about-aseg/honours-awards> or contact the Committee Chair if you require further guidelines on what is required.

### ASEG Gold Medal

For exceptional and highly significant distinguished contributions to the science and practice of geophysics, resulting in wide recognition within the geoscientific

community. The nominee must be a Member of the ASEG.

### Honorary Membership

For distinguished contributions by a Member to the profession of exploration geophysics and to the ASEG over many years. Requires at least 20 years as a Member of the ASEG.

### Grahame Sands Award

For innovation in applied geophysics through a significant practical development of benefit to Australian exploration geophysics in the field of instrumentation, data acquisition, interpretation or theory. The nominee does not need to be a Member of the ASEG.

### Lindsay Ingall Memorial Award

For the promotion of geophysics to the wider community. This award is intended for an Australian resident or former resident for the promotion of geophysics (including but not necessarily limited to applications, technologies or education), within the non-geophysical community, including geologists, geochemists, engineers, managers, politicians, the media or the general public. The nominee does not need to be a geophysicist nor a Member of the ASEG.

### Early Achievement Award

For significant contributions to the profession by a Member under 36 years of age, by way of publications in *Exploration Geophysics* or similar reputable journals, or by overall contributions to geophysics, ASEG Branch activities, committees, or events. The nominee must be a Member of the ASEG and have graduated for at least 3 years.

### ASEG Service Awards

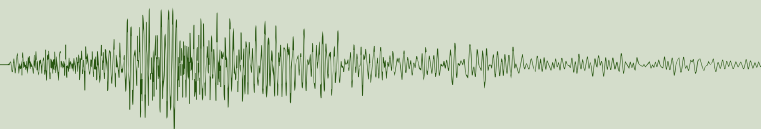
For distinguished service by a Member to the ASEG, through involvement in and contribution to State Branch committees, Federal Committees, Publications, or Conferences over many years. The nominee will have been a Member of the ASEG for a sustained period of time. All nominations will be considered for the award of an ASEG Service Certificate. Where the nomination details outstanding contributions to the shaping and the sustaining of the Society and the conduct of its affairs over many years, consideration will be given to the award of the ASEG Service Medal to the nominee. Honorary Members are not eligible for nomination.

### Nomination procedure

Any Member of the Society may submit nominations. These nominations are to be supported by a seconder, and in the case of the Lindsay Ingall Memorial Award by at least four geoscientists who are members of an Australian geoscience body (e.g. GSA, AusIMM, AIG, IAH, ASEG or similar).

Nominations must be specific to a particular award and all aspects of the defined criteria should be addressed. To view the criteria for each award and the information required for a nomination, nominators are advised to access and view the nomination guidelines and *pro forma* nomination forms at: <https://www.aseg.org.au/about-aseg/honours-awards>.

*Pro forma* nomination forms are also available by contacting the Committee Chair. Nominations including digital copies of all relevant supporting documentation are to be sent electronically to the Chair, ASEG Honours and Awards Committee via email: [awards@aseg.org.au](mailto:awards@aseg.org.au).



## ASEG Branch news

### Victoria

The spring season has been quiet for the Victorian Branch, but we co-hosted the November Young Professionals meeting, which was very interesting. We will all see the Grampians with a new eye on our next visit! Representatives from the Geological Survey of Victoria gave a detailed and enthusiastic presentation on the Stavely Arc project, turning the venue into a 3D-vision room!

The next event will be the joint ASEG-SPE Christmas lunch. Details will be announced shortly.

An invitation to attend Victorian Branch meetings is extended to interstate and international visitors who happen to be in Melbourne at the time. Meetings are generally held on the third Thursday of each month from 5:30 pm in the Kelvin Club, 18–30 Melbourne Place, Melbourne. Meeting notices, addresses and relevant contact details can be found on the Victorian Branch page of the ASEG website.

*Seda Rouxel*  
[vicpresident@aseg.org.au](mailto:vicpresident@aseg.org.au)

### Western Australia

The 9 October \*Young Professionals\* Tech Night was jointly hosted with PESA, and saw two presenters summarise their recent work to an audience of young professionals from each Society. **Vincent Crombez** (CSIRO) presented 'From cores to stratigraphic modelling: an innovative workflow to characterise unconventional targets, with applications to the Montney and Doig Formations in Western Canada' and **Tasman Gilfeather-Clark** (UWA) summarised his work on 'Machine learning for land classification, a self-organising map case study of Broken Hill'. The WA Branch continued young professional and student engagement with two events in November, comprising the ASEG-PESA mentoring program closing session on 27 November, and our annual student night on 28 November with presentations from undergraduate and post-graduate students from UWA and Curtin University.

Upcoming WA events include:

- 12 December – AGM and Christmas Party at Mayfair Lane, West Perth
- 13 February Tech night – **Richard**

**Chopping** will summarise his recent publication 'The Australian Continent: a geophysics synthesis'

Event planning for 2019 has commenced, and the WA Branch intends to hold two lunchtime tech events during the year, while also continuing to host evening technical events with both PESA and AIG where applicable. The WA committee is actively filling the technical calendar for 2019, so if you or your organisation would like to present at a function please get in touch with us as soon as possible ([wapresident@aseg.org.au](mailto:wapresident@aseg.org.au); [wasecretary@aseg.org.au](mailto:wasecretary@aseg.org.au)).

We look forward to seeing you at the AGM and at our first tech event of 2019 in February. On behalf of the WA Branch committee, we wish you all a safe and happy holiday season.

*Heather Tompkins*  
[wapresident@aseg.org.au](mailto:wapresident@aseg.org.au)

### Australian Capital Territory

In October the ASEG's President, **Marina Costelloe**, presented a fantastic talk on the history of the ASEG, her personal journey as a geophysicist, and the importance of diversity in science. Marina is the third woman in 30 years to hold the role of President, and also the first Public Sector leader to hold this role. Marina spoke about how, as a society, the ASEG is committed to diversity, inclusion and anti-discrimination through respect and appreciation of what makes our membership so varied in terms of age, gender, ethnicity, disability, education and national origin. Since its foundation in 1970, the ASEG has become an inclusive and diverse society, bringing new ideas, new thinking and innovation into our member forums and conventions.

In November, our Branch was delighted to present **Kathryn Hayward** with the 2018 ACT Student Award. Kathryn presented an interesting talk to the Branch that described how pore fluids influence rupture dynamics during earthquakes, and discussed the seismological evidence that suggests there is a significant difference in fault behaviour between classic stress-driven earthquakes and those driven by changes in pore fluid pressure. The ACT Branch would like to congratulate Kathryn on her outstanding achievements so far.

To finish off the year the ACT Branch held a Christmas Party and Technical Evening on 6 December with guest speaker **Richard Chopping**. Richard presented on the recently launched book: *The Australian Continent – A Geophysical Synthesis*.

Thank you to all the ACT Branch members for making this year so fantastic. Wishing you all a merry Christmas!

*James Goodwin*  
[actpresident@aseg.org.au](mailto:actpresident@aseg.org.au)

### New South Wales

In September the Macquarie University student committee did all the hard work. They were given the remit to organise and run the ASEG NSW Branch meeting, and to attract as many students along as possible.

The abstract for the meeting was: 'It can be difficult for recent graduates to know what to do once their undergraduate studies are over. Should you pursue further study, or transition into the workforce? What opportunities are there out there?'

There were three speakers, all giving great presentations, outlining to the students in the audience (and students at heart!!) how they made their choice and where it led them. They were:

- **Jose Fernando Gomez Martinez** – geotechnical engineer at Geotesta
- **Sam Matthews** – PhD student at Macquarie University
- **Josh Valencic** – engineering geophysicist at GHD

In October, we had our annual student night, where Honours and Masters students present their research. This year we had four speakers, all giving great talks with much discussion and hand gesturing afterwards. The speakers and topics were:

- **Xueyu (Tom) Zhao** and **Jie Wang** (UNSW) – 'Digital regolith mapping of soil salinity and clay content in 3-d using reconnaissance EM data and inversion modelling'
- **Steph Hawkins** (Macquarie University) – 'Investigating an igneous dyke swarm using applied field magnetics'
- **Alice Van Tilburg** (Macquarie University) – 'Exploring Lithospheric Scale Structure in the Eastern Yilgarn Craton with 3D Magnetotellurics'



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 generally held on the third Wednesday of each month from 5:30 pm at Club York in the Sydney CBD. Meeting notices, addresses and relevant contact details can be found at the NSW Branch website.

Mark Lackie  
[nswpresident@aseg.org.au](mailto:nswpresident@aseg.org.au)

## Queensland

**Tariq Rahiman** of Golder Associates presented to the ASEG QLD Branch in September on 'The application of geophysics for marine geohazard assessment: A case study from the Fiji Islands.' Tariq's talk was almost exactly 65 years to the day after the event, when on 14 September 1953, a powerful tsunami hit Suva City, the capital of Fiji, following a moderate to large earthquake. Suva is located within a seismotectonically active region of Fiji and Suva remains vulnerable to similar events. Tariq gave us an overview of how high resolution marine geophysical imaging assisted in the discovery of the source submarine landslide of the 1953 Suva tsunami. This discovery led to numerical modelling of the tsunami waves and inundation hazard zonation mapping for Suva City.

**Matt Higgins** was our October guest speaker. Matt is Manager of geodesy and positioning in the Queensland Department of Natural Resources, Mines and Energy. He is also President of the Australian based IGNSS Society and a Member of Australia's National Positioning Infrastructure Advisory Board. In 2013, the NASA Administrator appointed Matt to the U.S. Position, Navigation and Timing Advisory Board, which is a Presidential committee that advises the U.S. Government on GPS-related policy, planning and funding issues.

Matt's talk, 'Modernising Australia's Datum: Drivers and Processes for the Move to GDA2020', was a brisk and engaging tour of the basics and developments of the Global Navigation Satellite system (GNSS) as a background for the drivers for moving to GDA2020. The talk also covered interesting aspects such as augmentation services, including the recent \$225m federal funding of our National Position Infrastructure, and mass market positioning and the future of 30 cm accuracy in consumer electronics. Matt also showed his Xiaomi Mi 8, the world's first mobile phone with dual frequency support (L1 and L5) and potential for high resolution positioning, as more L5 capable satellites are put up in orbit.

We were also lucky to have **Jennifer Market**, the global acoustics advisor at Lloyd's Register and MPC Kinetic

presenting on 22 November. Jennifer's talk was on 'Diamonds in the noise – treasures lurking in acoustic data'.

Applications are now open for a mentoring program being jointly run by the Queensland ASEG and PESA Branches. The program is targeting Queensland based early career professionals in the geophysics and petroleum industries. We are seeking both mentees and mentors with applications closing 31 December 2018. The program will launch on 1 February 2019 and will run until 1 September 2019.

James Alderman  
[qldsecretary@aseg.org.au](mailto:qldsecretary@aseg.org.au)

## South Australia & Northern Territory

It has been a busy few months for the SA/NT Branch, with all of the usual ASEG events, not to mention the Australian Geoscience Council Convention being hosted in Adelaide. The SA/NT ASEG Branch proudly supported 6 students to attend the AGCC and various associated workshops (see this issue of *Preview* to read about their time at the conference).

On 24 September the ASEG SA/NT Branch co-hosted a 'Spring Fling' event at the Havelock Hotel with the Petroleum Exploration Society of Australia, the Society of Petroleum Engineers and the Young Petroleum Professionals. This was a wonderful event with great networking opportunities, with around 50 young professionals and more experienced geoscientists and engineers attending. We also took the opportunity to introduce the joint mentoring program for 2019, and to get expressions of interest from potential mentees and mentors for the program. I would love any feedback if you enjoyed this event, or if you would enjoy more collaborative events in the future.

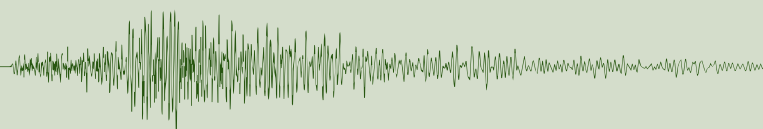
**Dr Alison Kirkby** from Geoscience Australia visited the Branch at the Coopers Alehouse on 11 October and gave a talk titled, 'Integration of seismic, magnetotelluric and magnetic data to reveal crustal structure in the Arunta region, Central Australia'. The talk was very interesting with a great turnout and some stimulating conversations.

Our next event was the 31st Annual ASEG Melbourne Cup Luncheon, very generously sponsored by Terrex Seismic. **Megan Nightingale** and **Ben Shave** from Terrex made the trip down from



Left to right: Student presenters at the NSW ASEG Branch meeting: Alice Van Tilburg, Steph Hawkins, Xueyu (Tom) Zhao and Jie Wang. Mark Lackie, the NSW Branch President, is on the far right.





Queensland for the event. This year we were impressed with the food, venue and service of The Gallery. The event provided a great chance to catch up with colleagues and share some laughs. **Dennis Conway** from the University of Adelaide kindly gave a talk, ‘Gambling, winning, and horse racing: an unlikely trifecta?’ that was insightful and very funny. Our usual MC bowed out with his own horse racing in the Melbourne Cup events, and former SA/NT ASEG President **Josh Sage** stepped in and did a wonderful job. **Rod Lovibond, Adam Davey, Maeri-Jo Davey** and **Sam Jennings** all provided invaluable assistance with making the day run so smoothly.

The next day, up in Darwin, the 2018 Haddon Forrester King Medal Seminar was given by Professor **David R Cooke**. The event was co-hosted by the Northern Territory Division of the Geological Society of Australia and the Australian Institute of Mining and Metallurgy, Professor Cooke’s talk was titled, ‘Porphyry copper, gold and molybdenum deposits – new geochemical exploration methods to aid discovery’.

Lastly, on 19 November, the ASEG co-hosted a lunch time technical event with the Geological Survey of South Australia (GSSA). Dr **Kristina Tietze** from GFZ Potsdam, Germany presented a

talk on ‘Imaging fluid imprints along active and fossil margins with 3D magnetotelluric inversions; examples from the San Andreas fault and the Gawler Craton’. The catered event was held at the GSSA’s new building. It was a great talk with good attendance and some new faces, as lunch time events tend to attract those who can’t always make the evening events.

As always, very happy to hear any feedback at [sa-ntpresident@aseg.org.au](mailto:sa-ntpresident@aseg.org.au). Hope to see you soon at an ASEG event, check the ASEG website for updates.

Until next time,

*Kate Robertson*  
[sa-ntpresident@aseg.org.au](mailto:sa-ntpresident@aseg.org.au)

### Tasmania

The Tasmanian Geoscience Forum has become the pre-eminent annual event for catching up with the latest developments and ideas underpinning Tasmania’s exploration and mining industries. The 2018 edition was held at the Tall Timbers Resort in Smithton on Thursday 6 December, with optional field trips before and after.

In the New Year the Tasmania Branch will welcome back **Richard Chopping**

to talk about the book he recently co-authored with **Brian Kennett** and **Richard Blewett**; *The Australian Continent: A Geophysical Synthesis*. This will be an event held jointly with the Tasmania Division of the Geological Society of Australia, starting with nibbles and drinks at 5.30 pm on Thursday 28 February 2019 in the Earth Sciences Building at the University of Tasmania. It will be preceded by the ASEG Tasmania Branch AGM. Further details will be included in a more formal notice of meeting distributed to local Members closer to the time.’

An invitation to attend Tasmanian Branch meetings is extended to all ASEG Members and interested parties. Meetings are usually held in the CODES Conference Room, University of Tasmania, Hobart. Meeting notices, details about venues and relevant contact details can be found on the Tasmanian Branch page on the ASEG website. As always, we encourage Members to also keep an eye on the seminar program at the University of Tasmania/CODES, which routinely includes presentations of a geophysical and computational nature as well as on a broad range of earth sciences topics.

*Mark Duffett*  
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### ASEG national calendar: technical meetings, courses and events

Date	Branch	Event	Presenter	Time	Venue
6	Dec	ACT	Christmas party and technical evening	Richard Chopping	1700 Scrivener Room, Geoscience Australia, Symonston, followed by dinner at Rubicon Restaurant in Griffith
11	Dec	SA–NT	Honours night and Christmas party	TBA	TBA
12	Dec	WA	AGM and Christmas Quiz	Various	TBA Mayfair Lane, West Perth
12	Dec	NSW	Quiz night	TBA	1730 99 on York Club, 99 York Street, Sydney
	Dec	VIC	ASEG-SPE Christmas lunch	TBA	TBA
1	Feb	QLD	Launch joint ASEG PESA YPN Mentoring Program	Various	TBA TBA
13	Feb	WA	Tech night	Richard Chopping	TBA TBA
20	Feb	NSW	Tech Talk	Richard Chopping	1730 99 on York Club, 99 York Street, Sydney
21	Feb	VIC	Tech talk	Richard Chopping	1730 The Kelvin Club, 18–30 Melbourne Place, Melbourne
28	Feb	TAS	AGM and Tech night	Richard Chopping	1730 Earth Sciences Building, University of Tasmania, Sandy Bay, Hobart
5	Mar	QLD	Tech night	Richard Chopping	1730 XXXX Brewery, Corner Black Street and Paten Street, Milton, Brisbane
21	Mar	TAS	Tech night	Paul Winberry	TBA Earth Sciences Building, University of Tasmania, Sandy Bay, Hobart

TBA, to be advised (please contact your state Branch Secretary for more information).