

# President's piece



Marina Costelloe

I am delighted to announce a new publishing partnership between the Australian Society of Exploration Geophysicists and Taylor & Francis Australasia. We are excited to partner with Taylor & Francis to increase the impact of Exploration Geophysics and Preview and to take our geoscience, research and career training to a wider audience around the world. Exploration Geophysics and Preview make excellent additions to Taylor & Francis' existing portfolio of earth sciences titles. Taylor & Francis partners with world-class authors, from leading scientists and researchers, to scholars and professionals operating at the top of their fields. Taylor & Francis publish in all areas of the Medicine, Science, Technology, Social Sciences, Behavioural Sciences, and Humanities sectors. I would like to thank Danny Burns, Ted Tyne and our Publications Committee for steering us through this change task with determination and vision. I look forward to receiving feedback from Members on the change when it comes into effect in January.

As you know, Exploration Geophysics is a peer-reviewed forum for scientific papers from members of the ASEG and our partner societies; Society of Exploration Geophysicists of Japan (SEGJ) and Korean Society of Earth and Exploration Geophysicists (KSEG). Our journal publishes ground-breaking research in exploration and applied

geophysics, recording the extraordinary growth and achievements in science breakthroughs, innovations, new technologies, practices and discoveries in this field for almost 50 years. Exploration Geophysics is led by Managing Editor, Mark Lackie (Macquarie University) and two Co-Editors, Joongmoo Byun (Hanyang University, Korea) and Toshiyuki Yokota (Geological Survey of Japan), and supported by a diverse, international team of more than 30 Associate Editors.

Preview is our highly regarded, recognisable, much loved, ASEG-branded magazine published bi-monthly; it contains the latest news, commentaries, easy-to-read reviews, and case studies for exploration geophysicists around the world. Lisa Worrall (Protean Geoscience) is the Editor of *Preview* and is supported by a team of Associate Editors covering Minerals Geophysics, Petroleum Geophysics, Environmental Geophysics, Technical Standards, Geophysical Data Management and Analysis, Education, Book Reviews, Government, Honours and Awards and the big wide world of the

With AGCC just around the corner I am looking forward to networking with ASEG Members in Adelaide. AGCC will be a great science event, but I am proud to be championing Diversity at the conference. I have been asked to speak at the Women in Earth and Environmental Sciences (WOMEESA) event and want to take this opportunity to thank Beach Energy for sponsoring the Diversity in Geoscience Lunch. The ASEG will have a poster on Diversity at the AGCC. As a Society we are 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. Members live and work across the world. One of the Society's strengths is in engaging and connecting professionals from

geographically remote and isolated areas, which is shown in our membership figures, publication statistics, as well as our social media and online presence statistics. The Society is exceptionally good at linking technology, people and resources. Conferences the Society organises and runs strive to be free from prejudice of any kind and are places where great innovations are uncovered.

AEGC 2019, Data to Discover, is approaching fast. The event will be jointly hosted by the Australian Institute of Geoscientists (AIG), Australian Society of Exploration Geophysicists (ASEG), and Petroleum Exploration Society of Australia (PESA). The AEGC technical program committee has a focus on geology, geophysics, and geochemistry and how these are applied in exploration for both Petroleum and Mineral systems in Australasia and the wider Asia-Pacific region. The conference has major sub-themes encompassing but not limited to: New technologies; New information from old data; Local understanding from regional context; Workflows and methods that reduce cost/turnaround on projects; Cross disciplinary co-ordination; and; Case studies; Interacting and communicating science to the wider community. A vital component of the 2019 conference will be the inclusion of dedicated streams for Australian basins, discovery techniques, mineral mapping, and remote sensing applications.

AEGC 2019 abstract submission is open now, and closes late November 2018. Tim Dean (ASEG) and the Perth organisers have a cracker program being lined up, and are at this stage looking for companies to sponsor the exhibition or book exhibition space, packages are online. Have a look at the updated website: http://2019.aegc.com.au, Perth, 2-5 September 2019. I hope to see you there!

Marina Costelloe ASEG President president@aseg.org.au

## ASEG news

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OCTOBER 2018

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# **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 meeting that was held in August. If there is more you would like to read about on a regular basis just get in touch with me (Megan) and I will expand the briefs accordingly.

## **Finances**

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

Year to date income: \$376862

Year to date expenditure: \$474775

Net assets: \$1 033 847

## Membership

At the time of this report, the Society had 970 Members. This figure is up from the figure of 903 Members as reported in the last Executive brief in August issue of *Preview*. It is down approximately 10% from last year's total (Figure 1).

Numbers are down similarly across the states with the least drop in Members from 2017 being 12.3% in WA, and the most being a 26.6% drop in Tasmania.

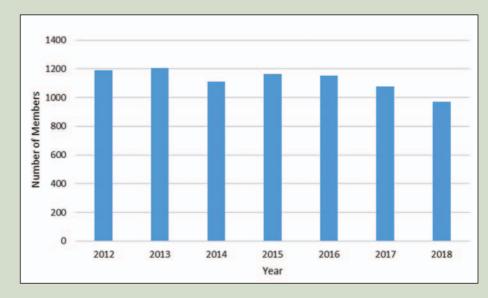


Figure 1. ASEG membership levels between 2012 and 2018.

There have been no changes to retired, honorary or corporate membership numbers since August 2018. The increase has mostly been in the Active/Associate membership category, with total numbers now reflecting a reduction from 2017 to 2018 of only 6%. The reduction in student membership numbers is still very high, and now sits at 45% from 2017.

I hope you have had a chance to look at our website, its looking really great thanks to the efforts of the web team. Please take a particular look at the fantastic photos that have been submitted during our photo competition and see who has taken out 1st, 2nd and 3rd prizes.

Don't forget that our website also has an employment section – for Members only! Check out potential employment opportunities or advertise a position if you're an employer seeking the skills of one of our many talented Members.

Megan Nightingale Secretary fedsec@aseg.org.au

# Welcome to new Members

The ASEG extends a warm welcome to 16 new Members approved by the Federal Executive at its August and September meetings (see table).

First name	Last name	Organisation	State	Country	Membership type
Shubham	Agrawal	ANU	ACT	Australia	Student
Walid	Ben Mansour	Macquarie University	NSW	Australia	Associate
Matthew	Cracknell	University of Tasmania	TAS	Australia	Active
Matt	Grant	BHP	QLD	Australia	Active
Josh	Jesse	Coffey	NSW	Australia	Active
Thayyil	Koshy	Independent	WA	Australia	Active
Tara	Martin	CSIRO	TAS	Australia	Active
Sam	Matthews	Macquarie University	NSW	Australia	Student
Dietmar	Muller	The University of Sydney	NSW	Australia	Active
Ndoumba Kelly	Ngaka Litsoung	University of Western Cape	Western Cape	South Africa	Student
Uthman	Oluwole-Raji		VIC	Australia	Associate
James	Regan	Curtin University	WA	Australia	Student
Benjamin	Roberts	University of Queensland	QLD	Australia	Student
Stuart	Stephens	Doray Minerals	WA	Australia	Active
Cameron	Thompson	Curtin University	WA	Australia	Student
Aaron	Tompkins	GBG Australia	NSW	Australia	Active

# Update from the ASEG Young Professionals Network

The ASEG Young Professionals are ramping up activity across Australia! There are now mentoring programs running in Victoria and Western Australia. The QLD YPs are currently recruiting mentors and mentees ahead of the program launch on 27 November. If you're interested in participating in the scheme as a mentor or mentee please apply before the cut-off date of 2 November. Application forms can be found on the ASEG website under QLD Branch Events. The South Australian Branch are also actively looking to start a

mentoring scheme ahead of a 2019 kick-off.

The Victorian YPs have continued their seminar series with talks on structural geology by Dr Kevin Hill (Melbourne University) and Petroleum Systems Modelling by Dr David Briguglio (3D Oil).

Finally, the Federal ASEG YP and the ASEG WA Branch are jointly sponsoring the first WA GSA Earth Sciences Student Symposium (GESSS-WA) at the University of Western Australia in Perth on 29 November. This symposium builds on

the very successful Victorian Universities Earth and Environmental Sciences Conference (VUEESC), which has been held at Monash University in Melbourne for the past 30 years. As GESSS, the concept was extended to Queensland, New South Wales, South Australia and Tasmania in 2017. For more information go to https://gessswesternaustra.wixsite.com/gessswa2018.

Megan Nightingale and Jarrod Dunne ASEG Young Professionals Network ypadmin@aseg.org

# ASEG Research Foundation 2018 awards

The ASEG Research Foundation has made the following two grants for 2018 for a total value of \$30000.

(1) Curtin University Associate Professor Milovan Urosovic and PhD student Zixing Qin have been awarded \$15000 over 3 years. The project is titled 'The utilisation of a drill-bit seismic source in cross-hole surveys for hard rock mineral exploration.'

## Project summary

This project aims to investigate the feasibility and applicability of drill-bit seismic source in cross-hole surveys for hard rock mineral exploration. It will lead to an innovative exploration technique and the technique can be applied to explore numerous hard rock mineral deposits. Moreover, it plays a critical role during mine development in terms of resource estimation, orebody delineation and subsurface geotechnical properties estimation. The proposed research will

have a positive and profound impact on hard rock mineral exploration in Australia and world-wide. The expected outcomes are inter-borehole tomographic images and seismic reflection images together with in-situ rock geotechnical information. If successful, the same approach can be expanded to other ambient sources for a multi-well seismic receiver assemblies.

(2) University of Adelaide Associate Professors Simon Holford and Rosalind King and PhD student Matthew Mussolino have been awarded \$15 000 over 3 years. The project is titled 'Improving the accuracy of geomechanical predictions in sedimentary basins'.

Project summary

Geomechanical predictions are integral to safe and successful hydrocarbon exploration and development, underpinning drilling strategies and efficient field production. The input data to geomechanical predictions relate to principal stress, fluid pressure and rock strength parameters, but these data are often estimated and subject to natural variation causing uncertainties that are rarely explored. This project will use rich petroleum datasets to define the uncertainties associated with quantification of these parameters, and through Monte Carlo simulations, constrain the impacts on predictions of rock failure. The project will result in new workflows for the improved assessment and application of geomechanical datasets.

The next round of ASEG RF applications for 2019 will open in December 2018 and close at the end of February 2019. The details will be available on the ASEG website.

Doug Roberts ASEG Research Foundation dcrgeo@tpg.com.au

# Initial notification for nominations for the 2019 ASEG Honours and Awards

To be presented in conjunction with the AEGC, 2-5 September 2019, Perth, Western Australia



Award categories requiring nominations from ASEG Members prior to the conference include:

- Outstanding contributions to the geophysical profession
- Outstanding contributions and service to the ASEG
- Recognition of innovative technological developments
- Promotion of geophysics to the wider community
- Significant achievements by younger ASEG members

Lists of previous awardees, award criteria and nomination guidelines can be found

on the ASEG website at https://aseg.org.au/honours-and-awards.

For further information, preliminary expressions of potential nominations, and submission of nominations, please contact:

Andrew Mutton ASEG Honours and Awards Committee Chair awards@aseg.org.au



# ASFG Branch news

### **Tasmania**

The Garry Davidson Symposium, being staged by CODES at the University of Tasmania 22-24 October 2018, will consist of presentations by worldrecognised experts on exploration for a range of mineralisation styles. Geophysics is likely to feature strongly in several, particularly Terry Hoschke's 'Geophysical signatures of IOCG deposits' and Michael Roach's 'Tasmanian orogenic and intrusion-related Au-deposits: Relationships to Paleozoic granites'. Other presentation sequences on uranium, sediment-hosted base metal and volcanogenic-hosted massive sulfide deposits will also contain elements of exploration geophysics.

Garry Davidson was a highly respected and versatile geologist who taught generations of students at CODES over nearly three decades. He made significant contributions to our understanding of IOCG, VHMS, sediment-hosted base metal, uranium and orogenic gold deposits, and has been much missed by the Tasmanian geoscientific community since his untimely passing last year. The symposium honours Garry's memory by providing a state of the art appraisal of the characteristics, origins and exploration for these significant mineral resources. Full details including registration can be found via https://bit.ly/2IK2QUN.

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 taspresident@aseg.org.au

## Victoria

The seasonal transition from a Melbourne winter to a Melbourne spring isn't often clear, and one usually has to double-check a calendar to convince oneself that spring has indeed arrived. Following on

from the tremendous success of our winter series of 'international' guest presenters, your Branch continued the rage into spring with quite a bang!

In early August, we welcomed Professor Satish Singh, who hails from one of France's leading research organisations, the Institut de Physique du Globe de Paris, and is an esteemed member of their marine geosciences division. An enthusiastic gathering of Members attended to hear this year's SPE/AAPG distinguished lecturer give his presentation, titled 'Seismic Full Waveform Inversion for Fundamental Scientific and Industrial Problems'. Members were treated to a lecture describing the past, present and future application of full waveform inversion. Professor Singh discussed the potential applications from exploration in the petroleum industry to practical relevance in seismological and crustal studies.

We concluded our winter program with the annual congregation of PESA, ASEG and SPE Members at the highly-anticipated inter-society Winter Social 2018. As expected, there was a tremendous turnout, despite the bitter Antarctic-like cold on the night. It was certainly a joy to see industry stalwarts and young professionals ascend from hibernation to share a tipple over their common passion for the geosciences. Thank you to everyone that attended the event!

As the sun finally made its long-awaited appearance in mid-September, the melting

of the Melbourne permafrost gave way for the first presenter of the Victorian Branch's spring series of meetings. Rio Tinto's Chief Geophysicist, Theo Aravanis, was our honoured guest, and his presentation 'When will the UAV revolution arrive for exploration?' drew an extraordinary number of attendees and had your committee members rummaging through the record books! Theo delivered a rather passionate talk about his experiences with using UAVs whilst deeply expressing his disappointment as to why this disruptive technology hasn't revolutionised our industry as yet. That future, he envisaged, should have arrived by now. This assessment quickly stirred a generous volley of dialogue amongst the audience, so it was great to see and hear the different ideas and thoughts from varied specialists in our geoscience community. Thank you, Theo for spawning the imagination of those that attended.

Your committee remains in talks with several potential presenters for the rest of our spring series of technical meetings, so keep an eye out for updates!

Seda Rouxel vicpresident@aseg.org.au

## Western Australia

The WA Branch kindly thanks our 2018 sponsors for their ongoing support and assistance with running our monthly Tech Night series.

The Branch hosted two interesting and very well attended technical events in



ASEG WA Branch sponsors.

## **ASEG** news

August. The August 15 Tech Night was a \*Petroleum\* stream presentation by Satish Singh (SEG Distinguished Lecturer) on 'Seismic Full Waveform Inversion for Fundamental Scientific and Industrial Problems'. This event was co-hosted with PESA and we hope to continue working with other professional societies to host more joint technical events in future. The lecture was held in the CGG ground floor function room, and over 60 ASEG and PESA Members from various professional and academic backgrounds attended and socialised over food and beverages.



ASEG WA president Heather Tompkins, SEG DL Satish Singh, and PESA WA president Helen Debenham



Heather Skeen, Karen Gilgallon, and Brendan Ray (Southern Geoscience Consultants) after presenting at the August \*Groundwater\* Tech night.

The Tech Night on August 29 included \*Groundwater\* presentations by 3 geophysicists from Southern Geoscience Consultants (Karen Gilgallon, Brendan





WA Branch Members gather for the August \*Groundwater\* Tech Night presentations.

Ray, and Heather Skeen) on 'The use of geophysical data for hydrogeology applications in the Exmouth area, Perth Basin, and Nevada, USA'. The Branch also hosted a \*Groundwater\* Tech Night on September 12 when Alan Aitken (UWA) presented on 'Modelling Microgravity for Groundwater Storage', which highlighted possible correlations between atmospheric circulation patterns, ground water storage, and banksia tree deaths in Kings Park, Perth.

The ASEG WA Branch was represented by Partha Pratime Mandal (ASEG WA committee member) and Heather Tompkins (ASEG WA President) at this year's Hale and St Mary's Career Expo which was held on 17 July at the Hale School memorial hall. It was an excellent opportunity to spread the message of exploration geophysics within the minds of budding young students. We displayed banners, geophysical maps, brochures and took this occasion to share the value of geophysics among various students and family members attending the expo. We



Partha Pratime Mandal chatting to students at the Hale & St. Mary school career night.

engaged with the students by asking them basic questions relating to geoscience, and used candy as a reward when they guessed the right mineral name or rock type. We found the students were interested in geoscience and geophysics as a possible career path in the future. As no other geoscience organization participated in the event, ASEG's engagement with high school students reflects the Society's positive role in the community. Overall it was a great event and very rewarding talking to students interested in STEM fields and geoscience in particular.

Upcoming WA events include:

- October 9 \*Young Professionals\*

   Vincent Crombez from CSIRO and Tasman Gilfeather-Clark from UWA will present to other young professional members of the ASEG and PESA
- November 21 \*Students/Young Professionals\* – annual student Tech Night with presentations by several Curtin and UWA students
- November 28 \*Young Professionals\*
   Mentoring Program closing session
- December TBC \*AGM\* and Christmas Quiz Night

The Tech Night schedule is subject to change due to speaker availability. Please check the website for up-to-date information.

If you would like to provide the Branch with feedback on previous events or share with us ideas for workshops or technical events in 2019, please send us an email (wapresident@aseg.org.au; wasecretary@aseg.org.au).

Heather Tompkins wapresident@aseg.org.au



## **Australian Capital Territory**

In August, the ACT Branch enjoyed an SEG Distinguished Lecture from **Satish Singh** on 'Seismic Full Waveform Inversion for Fundamental Scientific and Industrial Problems'. The talk looked at how the Full Waveform Inversion method is used to quantify the elastic property of the subsurface and covered its early development and current applications.



Satish Singh presenting to the ACT Branch.

More recently, Ned Stolz from the Geological Survey of NSW gave a fantastic presentation highlighting the active program of data acquisition, interpretation and modelling that the survey undertakes to support resource exploration and geological research. These projects include data of immediate use to explorers such as magnetics and gravity, as well as more fundamental data such as regional-scale MT and reflection seismic investigations into the deep crust. Much of these new data feed into regional-based geological interpretation projects and construction of a state-wide 3D model of the geology of NSW. The survey also supports a geophysics R&D program examining petrophysics and palaeomagnetism, especially in their application to geophysical modelling and reconstructing the tectonic evolution of NSW.



Ned Stolz presenting to the ACT Branch.

The ACT Branch is looking forward to these upcoming events:

- October Marina Costelloe (ASEG Federal President): ASEG: How it works and what we are Up To.
- November Student Award winner presentation (date and venue TBA)
- December Christmas Party celebration (date and venue TBA)

James Goodwin actpresident@aseg.org.au

## **New South Wales**

In July, we held our annual dinner. It was held in a restaurant in the city; we ate lots of steak and fish, drank lots of reds and whites, and discussed lots of geophysical and non-geophysical topics. We had a good turnout and a great time was had by all.

In August, Doug Morrison from Southlands Geophysical Services presented a talk about measuring terrestrial magnetism from the late 1700s through to the early 1900s. Doug walked us through early measuring methods as well as the first charts showing the changes in magnetism over different parts of the world. Doug linked the measurements to many different investigators and how it developed into what we see as the current magnetic map of the world. Doug bought in some old 'texts' for us to careful look at and it was quite amazing to see what was being done back then. Much discussion followed, with many questions being asked over a few reds. We await Part II.

An invitation to attend NSW Branch meetings is extended to interstate and international visitors who happen to be in town at the time. Meetings are generally held on the third Wednesday of each month from 5:30 pm at the 99 on York Club 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

## Queensland

Since the last issue of *Preview* the Queensland Branch hosted Dr **Satish Singh**, the 2018 SEG/AAPG
Distinguished Lecturer, who presented his lecture entitled 'Seismic Full Waveform Inversion for Fundamental Scientific and

Industrial Problems'. We enjoyed a great turnout of 19 attendees at Dr Singh's talk, with lots of questions at the end.

The ever popular joint ASEG-PESA Trivia night was held on 14 August. The Trivia Night was well attended, with about 30 players from industry and the universities. The secret question theme revolved around chocolates, with excess chocolates going to the winners. Thanks to everyone involved.

The ASEG trip to Velseis in August included 10 students from QUT and UQ. This visit was hosted by **Karel Driml**, **Troy Peters** and **Shaun Strong** and supported by seismic experts, **Lindsay Horn** and **Nicholas Josephs**. The group toured Velseis' impressive facility, saw the big Univibes and the small Envirovibes, and were able to experience the work of a juggy, by rolling out a spread. Many students took full advantage of the trip by dropping off resumes for fieldwork in the student holidays.

In September **Tariq Rahiman** gave a fascinating talk to the Branch on 'An application of geophysics for marine geohazard assessment: a case study from the Fiji Islands'.

We still have room for technical talks towards the end of the year and encourage volunteers to get in touch. As always, an invitation is extended to interstate and international visitors who happen to be in Brisbane at the time of the meeting. Please get in touch for more information.

Finally, watch this space for the launch of the Queensland Branch mentoring program for early career geophysicists. We'll be looking for both potential mentors and mentees to join the program.

James Alderman qldsecretary@aseg.org.au

## South Australia & Northern Territory

On Tuesday 7 August the SA/NT ASEG Branch hosted the SEG Distinguished Lecturer, Dr **Satish Singh** for his presentation, 'Seismic Full Waveform Inversion for Fundamental Scientific and Industrial Problems'. We had a great turnout of around 30 attendees, and everyone enjoyed a fantastic evening and a very informative talk by Satish.

To shake it up a bit, in early August we hosted a movie night for National Science

## **ASEG** news

Week. The screening was of a compilation of documentaries on the theme of 'numbers and data' and included some short documentaries and a film on the promising future prospects of the blockchain, the technology that enables BitCoin, amongst other digital currencies. A particularly captivating episode of Catalyst was screened, on the topic of making decisions, and provided a particularly insightful view of how complex science or mathematics can be communicated in a way that everyone understands- a valuable lesson for us all as if no one can understand your science, then what is the point?

This event was marketed to not only ASEG Members but also members of the general public. By advertising widely, the small cinema was almost full (~30 attendees) and we received great feedback from everyone, including the nonscientists. The event was a great success, and we hope to be able to continue this event in the future.

Later in August we hosted our annual Wine Tasting event, where the wine for the annual national ASEG Wine Offer was selected in a blind tasting by a very capable panel of invited guests as a recognition for their current or past contributions to the ASEG. This year, we introduced a new category of sparkling wine, with the NV Adelaide Hills Sparkling K1 by Geoff Hardy taking out the inaugural win. Eden Hall takes all when it came to the reds and whites with their 2018 Springton Riesling and 2015 Springton Shiraz winning by popular vote. By now you should have received the heavily discounted wine

On 24 September we co-hosted a 'Spring Fling' networking event with PESA, SPE and YPP at the Havelock Hotel. The event was a great opportunity for inter-society networking. We also briefly introduced our ideas for a 2019 mentoring

offers to your inbox, or log onto the

to place your order.

Members' section of the ASEG website

program in 2019, with a launch event planned for later this year. If you are interested in this program please email me at sa-ntpresident@aseg.org.au.

Lastly, a reminder to save the date – we have secured the Gallery on Waymouth Street for our annual Melbourne Cup event on Tuesday 6 November this year, so stay tuned for an invite shortly.

If you have any suggestions/comments on the recent events we have hosted, I would love to hear from you. I'm also happy to hear any suggestions for guest speakers or if you have any visitors in town whose work may interest other members. I would also like to take this opportunity to thank our six sponsors who help make all of our events possible - Beach Energy, Department for Energy and Mining, Minotaur Exploration, Heathgate Resources, Vintage Energy and Zonge Engineering.

Kate Robertson sa-ntpresident@aseg.org.au

## ASEG national calendar: technical meetings, courses and events

Date		Branch	Event	Presenter	Time	Venue
9	Oct	WA	YPN	Vincent Crombez and Tasman Gilfeather-Clark	TBA	TBA
11	Oct	SA-NT	Tech night	Alison Kirkby	1745	Coopers Alehouse, 316 Pulteney Street, Adelaide
17	Oct	NSW	Tech talk	Various	1730	99 on York Club, 99 York Street, Sydney
22-24	Oct	TAS	Garry Davidson Symposium	Various		CODES, University of Tasmania, Hobart
25	Oct	ACT	Student night	Marina Costelloe	1600	Geoscience Australia, Symonston
6	Nov	SA	Melbourne Cup lunch		TBA	Gallery on Waymouth Street, Adelaide
9	Nov	WA	PESA ASEG WA Annual Golf classic		1030	Araluen Golf Resort
13–15	Nov	WA	Asia Pacific Workshop on Fibre-Optic Sensing	Various	TBA	ARRC, Perth
21	Nov	NSW	Tech talk	Paul Harvey	1730	99 on York Club, 99 York Street, Sydney
21	Nov	WA	Tech Night	Various students	TBA	TBA
27	Nov	QLD	Launch YPN Mentoring Program		1730	TBA
28	Nov	WA	YPN	Launch of mentoring Various program	TBA	TBA
29	Nov	WA	GESSS WA	Various	0830	UWA, Perth
	Nov	ACT	Student Award presentation		TBA	Geoscience Australia, Symonston
	Dec	WA	AGM and Christmas Quiz	Various	TBA	ТВА
	Dec	ACT	Christmas Party	TBA	TBA	ТВА

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