



## President's piece



*Andrea Rutley*

As geophysicists we are accustomed to the cyclical nature of the commodity business. Those of us who have been around for a few years, or many years, would have lost count of the number of these cycles that we have seen. Whilst globalisation brings many advantages, it also brings us challenges, as our industry becomes vulnerable to a wider range of external forces; many of which are very difficult to predict. Marketing departments in our resource companies are continually working with clients to optimise products, and are frequently working with a crystal ball to determine the next global commodity challenge.

How do we stay ahead of the cycles, remain relevant and technically valued? We should be able to look to our professional societies to assist us and the ASEG recognises that it can play a key role. We need to remain focussed on working with our Members to provide the best information about the most relevant technical advancements. To remind everyone, the ASEG has four key aims:

- to promote the science of geophysics, and specifically exploration geophysics, throughout Australia,
- to foster fellowship and co-operation between geophysicists,

- to encourage closer understanding and co-operation with other earth scientists,
- to assist in design and teaching of courses in geophysics and to sponsor student sections where appropriate.

Our recent Member survey supplied a fantastic amount of detailed feedback on how our Members believe we are performing as a technical society; in relation to these aims, as well as what we need to do to improve our service to our Members and to the broader public. This edition of *Preview* contains graphical representations of the results and allows you to draw some of your own conclusions. There will be actions generated as a result of the survey and many of the suggestions will be worked on in a way that will ensure that ASEG remains relevant to our Members.

If I could highlight a few of the conclusions from the survey, it would be that:

Members are very keen to see an increase in communication between ASEG and the broader public. This topic was the focus of discussion at a recent Brisbane PESA Symposium, after Bruce Holland from Norwood Resources (<https://thenorwoodresource.org.au>) gave a presentation. Norwood Resources is a group that is dedicated to sharing oil and gas industry facts with the public in such a manner that the community is made aware of the facts behind the industry, rather than just the information provided by various lobby/interest groups. Our Members feel that there is a need for the ASEG to be able to act in a similar way and, as part of the work on the results from the survey, we will look at how we can best achieve this.

Members also expressed the sentiment, via the survey, that the ASEG should provide greater support for its retired or

currently unemployed/self-employed Members, particularly in relation to reduced rates for conferences and workshops. It is timely to remind all Members that the ASEG will consider all hardship cases for membership dues, and other aspects of ASEG activity, on a case by case basis, and all conversations are held in the strictest of confidence. For any questions or discussion in relation to this, please email [membership@aseg.org.au](mailto:membership@aseg.org.au).

The ASEG is also aware that it has a responsibility to its Members to assist, where possible, in the search for employment, and has an 'Employment' section on the website where, governed by the Job Advertising Policy, Members can advertise vacant positions and job seekers can send a message to ASEG to show they are actively looking for employment (<https://www.aseg.org.au/employment/job-seeker>). Take some time to have a look around the website and re-familiarise yourself with the options.

Some positive feedback from the survey is that many of our Members are keen to act as mentors for the recently graduated geophysicists. This is fantastic, as it is our younger Members that must become actively involved in the running of the ASEG to ensure its relevance and ongoing survival. Perhaps it is our younger and thirstier Members who also suggested beer can holders! That will be an easy action to implement and clearly a crowd pleaser.

Finally, thanks to everyone for taking to the time to share their thoughts via the survey and we look forward to sharing with you all how we are going to act upon your feedback.

*Andrea Rutley*  
 ASEG President  
[president@aseg.org.au](mailto:president@aseg.org.au)

## Welcome to new Members

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

First name	Last name	Organisation	State	Country	Membership type
Iain	Campbell	Department of the Premier and Cabinet (Government of South Australia)	SA	Australia	Active
Oliver	Capaldo	The University of Adelaide	SA	Australia	Student
Arnold	Getz	Retired	NSW	Australia	Associate
Tenyears	Gumede	Knowledge Factory		Zimbabwe	Active
Kade	Hancock	The University of Newcastle	NSW	Australia	Student
Marcus	Haynes	Australian National University	ACT	Australia	Student
Joseph	Ma	National University of Singapore		Singapore	Student
Jason	Storey		WA	Australia	Active
Ahmed	Tahir	Ministry of Energy and Minerals	Maroodi Jeex	Somalia	Associate

# THOMSON AVIATION

## Airborne Geophysical Survey

HELPING TO FIT THE PIECES IN YOUR NEXT EXPLORATION PROJECT PUZZLE

Highest quality and resolution  
**MAGNETICS**  
**RADIOMETRICS**  
**ELECTROMAGNETICS**  
 &  
**GRAVITY**

Fixed wing & helicopter platforms  
 Cutting edge technologies  
 Worldwide deployment  
 Experienced personnel  
 Quality processing

A proud member of

+61 2 6960 3800  
[www.thomsonaviation.com.au](http://www.thomsonaviation.com.au)

David Abbott +61 4 9999 1963 ([david@thomsonaviation.com.au](mailto:david@thomsonaviation.com.au)) Paul Rogerson +61 4 2768 1484 ([paul@thomsonaviation.com.au](mailto:paul@thomsonaviation.com.au))



## ASEG Federal Executive 2017–18

Andrea Rutley: President (Communications and Promotions Committee Chair)  
Tel: (07) 3834 1836  
Email: [president@aseg.org.au](mailto:president@aseg.org.au)

Marina Costelloe: President Elect  
Tel: (02) 6249 9347  
Email: [presidencielelect@aseg.org.au](mailto:presidencielelect@aseg.org.au)

Megan Nightingale: Secretary  
Tel: 0438 861 556  
Email: [fedsec@aseg.org.au](mailto:fedsec@aseg.org.au)

Danny Burns: Treasurer (Finance Committee Chair)  
Tel: (08) 8338 2833  
Email: [treasurer@aseg.org.au](mailto:treasurer@aseg.org.au)

Katherine McKenna: Past President (Membership Committee, International Affairs Committee, ASEG RF)  
Tel: (08) 9477 5111  
Email: [pastpresident@aseg.org.au](mailto:pastpresident@aseg.org.au)

Kim Frankcombe (AGC Representative, Conference Advisory Committee and Technical Standards Committee)  
Tel: (08) 6201 7719  
Email: [kfrankcombe@iinet.net.au](mailto:kfrankcombe@iinet.net.au)

Emma Brand (Education Committee Chair)  
Tel: 0455 083 400  
Email: [continuingeducation@aseg.org.au](mailto:continuingeducation@aseg.org.au)

Marina Pervukhina (State Branch Representative, Specialist and Working Groups Liaison)  
Tel: (08) 6436 8746  
Email: [branch-rep@aseg.org.au](mailto:branch-rep@aseg.org.au)

David Annetts (Web Committee Chair)  
Tel: (08) 6436 8517  
Email: [david.annetts@csiro.au](mailto:david.annetts@csiro.au)

Bob Musgrave (Publications Committee Co-Chair)  
Tel: (02) 4931 6725  
Email: [publications@aseg.org.au](mailto:publications@aseg.org.au)

Greg Street (Publications Committee Co-Chair, History Committee)  
Tel: (08) 9388 2839  
Email: [publications@aseg.org.au](mailto:publications@aseg.org.au)

## Standing Committee Chairs

Finance Committee Chair: Danny Burns  
Tel: (08) 8338 2833  
Email: [treasurer@aseg.org.au](mailto:treasurer@aseg.org.au)

Membership Committee Chair: Katherine McKenna  
Tel: (08) 9477 5111  
Email: [membership@aseg.org.au](mailto:membership@aseg.org.au)

State Branch Representative: Marina Pervukhina  
Tel: (08) 6436 8746  
Email: [branch-rep@aseg.org.au](mailto:branch-rep@aseg.org.au)

Conference Advisory Committee Chair: Michael Hatch  
Email: [cac@aseg.org.au](mailto:cac@aseg.org.au)

Honours and Awards Committee Chair: Andrew Mutton  
Tel: 0408 015 712  
Email: [awards@aseg.org.au](mailto:awards@aseg.org.au)

Publications Committee Co-Chairs: Greg Street and Robert Musgrave  
Tel: –  
Email: [publications@aseg.org.au](mailto:publications@aseg.org.au)

Technical Standards Committee Chair: Tim Keeping  
Tel: (08) 8226 2376  
Email: [technical-standards@aseg.org.au](mailto:technical-standards@aseg.org.au)

ASEG History Committee Chair: Roger Henderson  
Tel: 0408 284 580  
Email: [history@aseg.org.au](mailto:history@aseg.org.au)

International Affairs Committee Chair: Katherine McKenna  
Tel: (08) 9477 5111  
Email: [vicepresident@aseg.org.au](mailto:vicepresident@aseg.org.au)

Education Committee Chair: Emma Brand  
Tel: 0455 083 400  
Email: [continuingeducation@aseg.org.au](mailto:continuingeducation@aseg.org.au)

Web Committee Chair: David Annetts  
Tel: (08) 6436 8517  
Email: [david.annetts@csiro.au](mailto:david.annetts@csiro.au)

Research Foundation Chair: Philip Harman  
Tel: 0409 709 125  
Email: [research-foundation@aseg.org.au](mailto:research-foundation@aseg.org.au)

Research Foundation – Donations: Peter Priest  
Email: [pwpriest@senet.com.au](mailto:pwpriest@senet.com.au)

## Specialist Groups

Near Surface Geophysics Specialist Group  
President: Greg Street  
Tel: (08) 9388 2839  
Email: [gstreet@iinet.net.au](mailto:gstreet@iinet.net.au)

Young Professionals Network  
President: Megan Nightingale  
Tel: 0438 861 556  
Email: [ypadmin@aseg.org](mailto:ypadmin@aseg.org)

## ASEG Branches

### Australian Capital Territory

President: James Goodwin  
Tel: (02) 6249 9705  
Email: [actpresident@aseg.org.au](mailto:actpresident@aseg.org.au)

Secretary: Adam Kroll and Bill Jones (shared position)  
Tel: (02) 6283 4800  
Email: [actsecretary@aseg.org.au](mailto:actsecretary@aseg.org.au)

### New South Wales

President: Mark Lackie  
Tel: (02) 9850 8377  
Email: [nswpresident@aseg.org.au](mailto:nswpresident@aseg.org.au)

Secretary: Sherwyn Lye  
Tel: (02) 8960 8417  
Email: [nswsecretary@aseg.org.au](mailto:nswsecretary@aseg.org.au)

### Queensland

President: Fiona Duncan  
Tel: 0419 636 272  
Email: [qldpresident@aseg.org.au](mailto:qldpresident@aseg.org.au)

Secretary: Mark Kneipp  
Tel: 0407 308 277  
Email: [qldsecretary@aseg.org.au](mailto:qldsecretary@aseg.org.au)

### South Australia & Northern Territory

President: Joshua Sage  
Tel: 0438 705 941  
Email: [sa-ntpresident@aseg.org.au](mailto:sa-ntpresident@aseg.org.au)

Secretary: Adam Davey  
Tel: –  
Email: [sa-ntsecretary@aseg.org.au](mailto:sa-ntsecretary@aseg.org.au)

NT Representative: Tania Dhu  
Tel: 0422 091 025  
Email: [nt-rep@aseg.org.au](mailto:nt-rep@aseg.org.au)

### Tasmania

President: Mark Duffett  
Tel: (03) 6165 4720  
Email: [taspresident@aseg.org.au](mailto:taspresident@aseg.org.au)

Secretary: Steve Kuhn  
Tel: (03) 6226 2477  
Email: [tassecretary@aseg.org.au](mailto:tassecretary@aseg.org.au)

### Victoria

President: Seda Rouxel  
Tel: 0452 541 575  
Email: [vicpresident@aseg.org.au](mailto:vicpresident@aseg.org.au)

Secretary: Thong Huynh  
Tel: –  
Email: [vicsecretary@aseg.org.au](mailto:vicsecretary@aseg.org.au)

### Western Australia

President: Kathlene Oliver  
Tel: 0411 046 104  
Email: [wapresident@aseg.org.au](mailto:wapresident@aseg.org.au)

Secretary: David Farquhar-Smith  
Tel: 0409 840 503  
Email: [wasecretary@aseg.org.au](mailto:wasecretary@aseg.org.au)

### The ASEG Secretariat

Ben Williams  
The Association Specialists Pty Ltd (TAS)  
PO Box 576, Crows Nest, NSW 1585  
Tel: (02) 9431 8622  
Fax: (02) 9431 8677  
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 last monthly meeting, which was held in August.

### Society finances

The Society's financial position at the end of July 2017:

Year to date income \$207 256

Year to date expenditure \$253 904

Net assets \$1 030 192

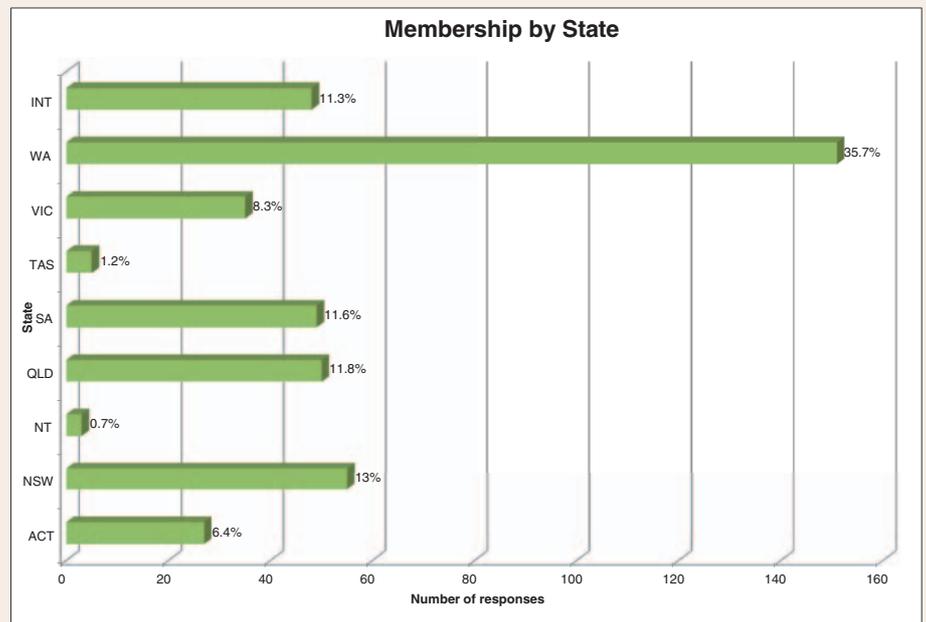
### 2017 Membership survey results

The 2017 Membership survey was a great opportunity to have your say, and over 400 Members did just that. Please find below some of the major results and findings. Thank you to everyone who contributed to the survey as your feedback is invaluable. Particular thanks go to those Members who have nominated to contribute to the Society by joining a committee, being a mentor or volunteering to present at branch events.

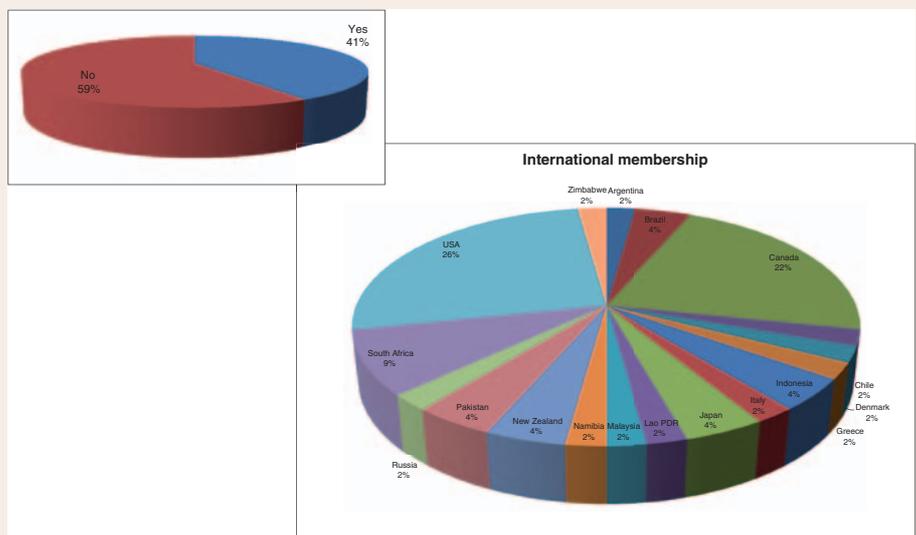
Your local state branch will be given more details about these survey results and may decide to run a more focused and much shorter survey to gauge their Member's interests. We invite you to contact your local branch president if you have any concerns, comments or ideas after reading the 2017 Membership Survey Results.

Stay tuned to *Preview* to find out more about how the ASEG are responding to your suggestions and improving the ASEG for all Members.

Question 1: In which state/country is your membership held?



Question 2: Does the new ASEG policy of lower membership fees in developing countries encourage you to keep your membership?

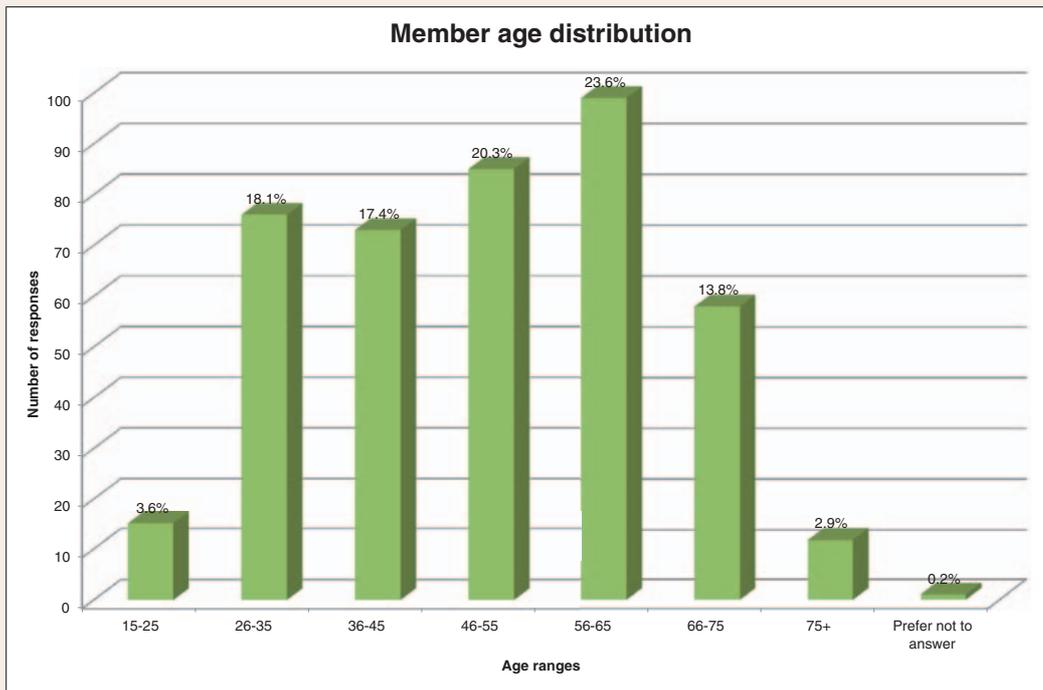


Question 3: What is your gender?

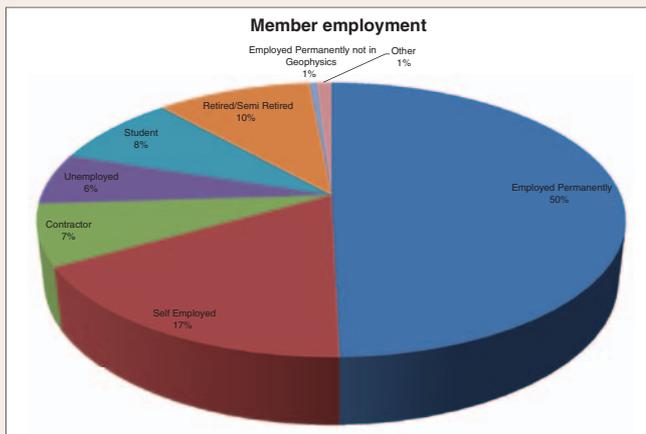
- 346 (86%) male
- 65 (15%) female
- 8 (2%) other/prefer not to answer



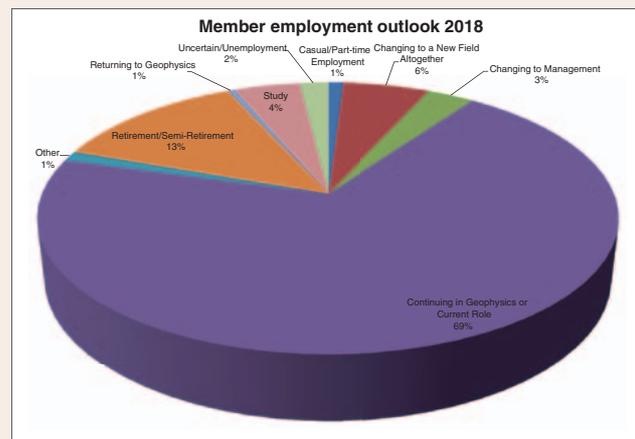
Question 4: Please let us know your age.



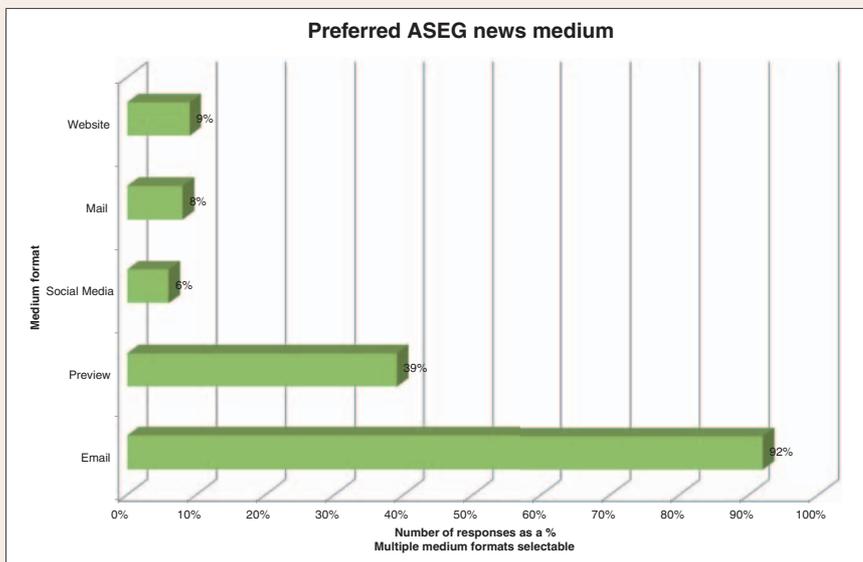
Question 5: Employment, are you...



Question 6: Employment, how do you see the next 12 months?



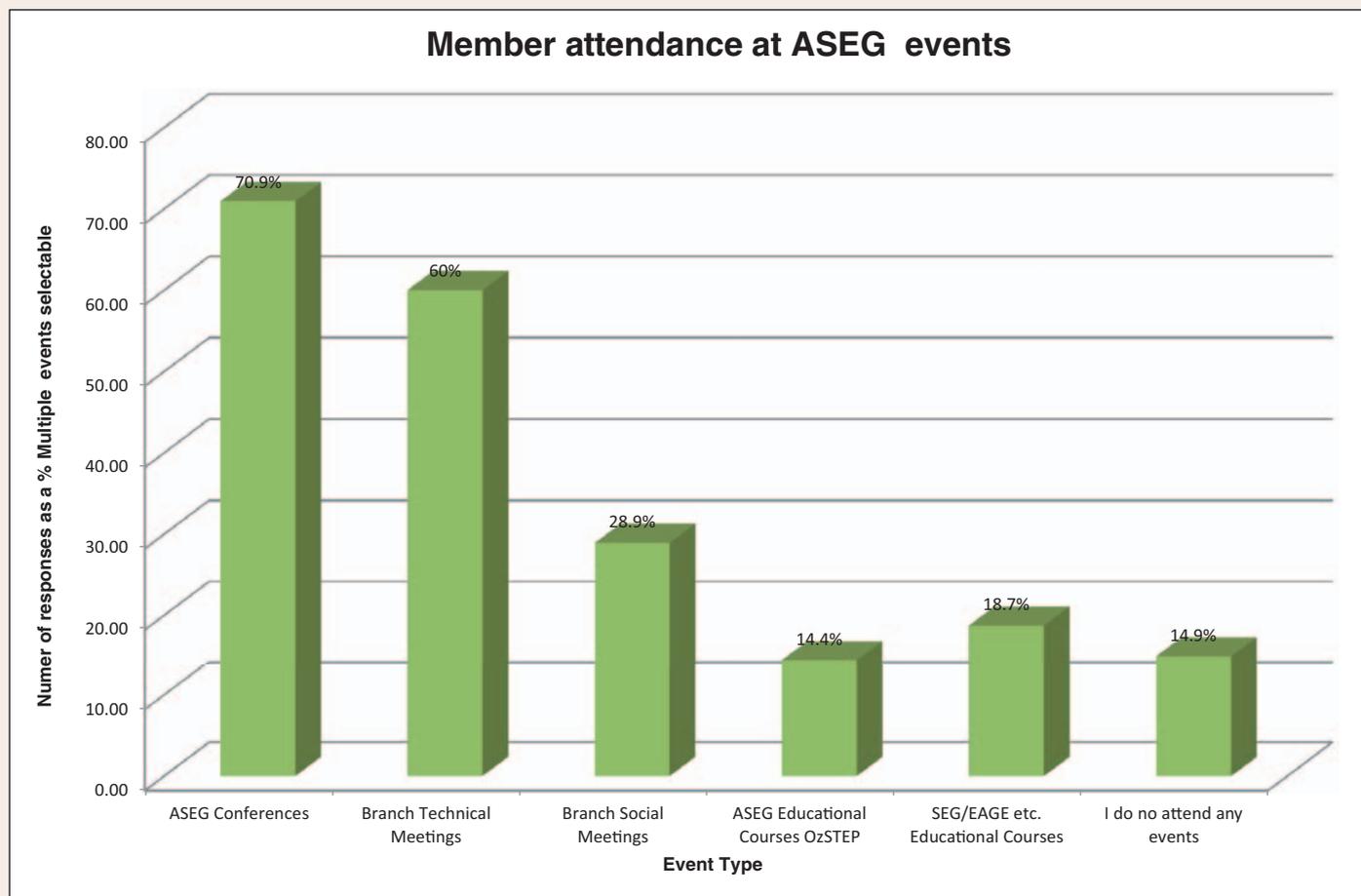
Question 7: How do you prefer to receive news from the ASEG?



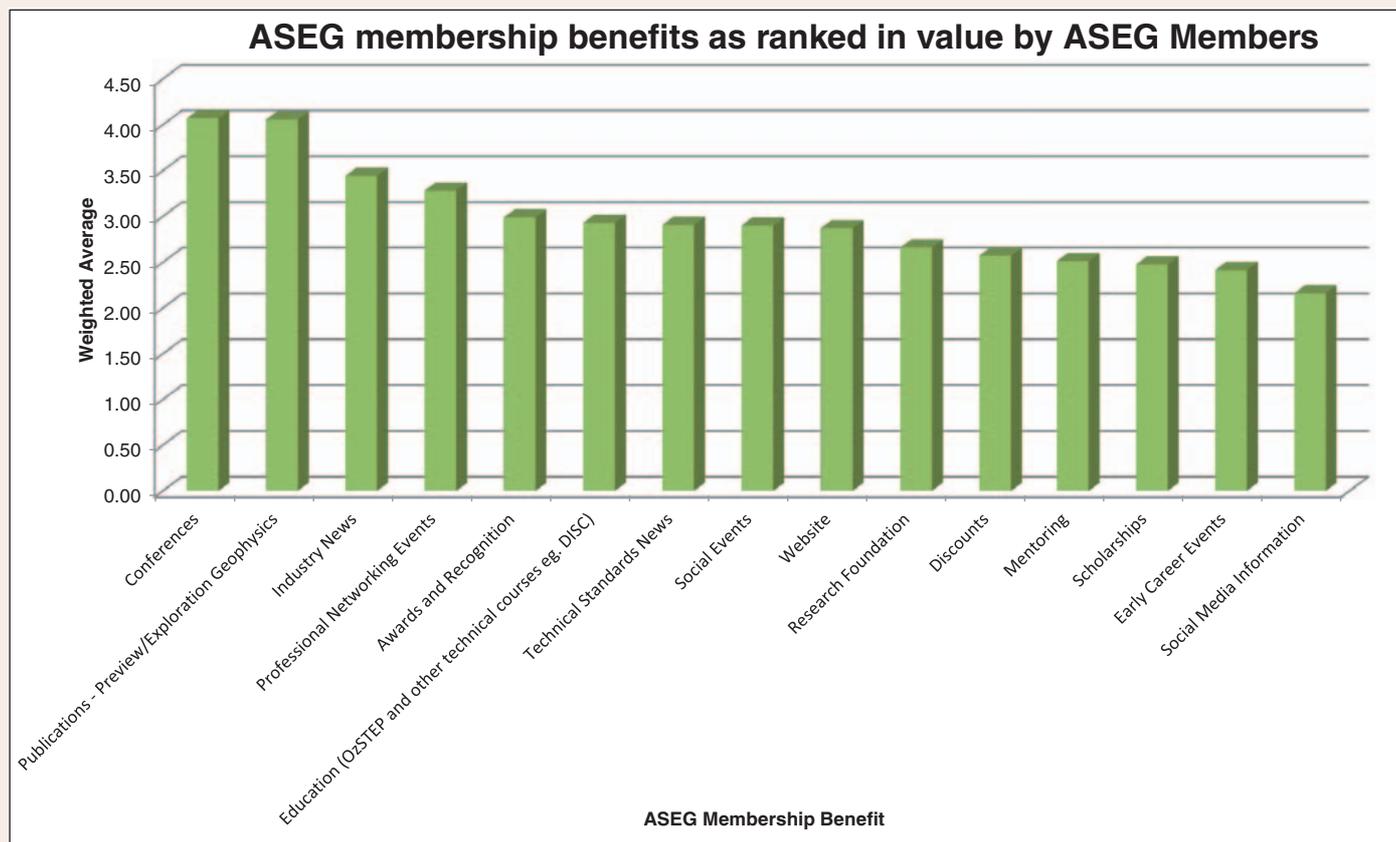
Question 8: Other societies distribute regular email news to Members, bundling all their activities in one email newsletter. Would you like the ASEG to do this as well?

- 323 (80%) Yes responses
- 79 (20%) No responses

Question 9: Do you attend any of the following ASEG events?

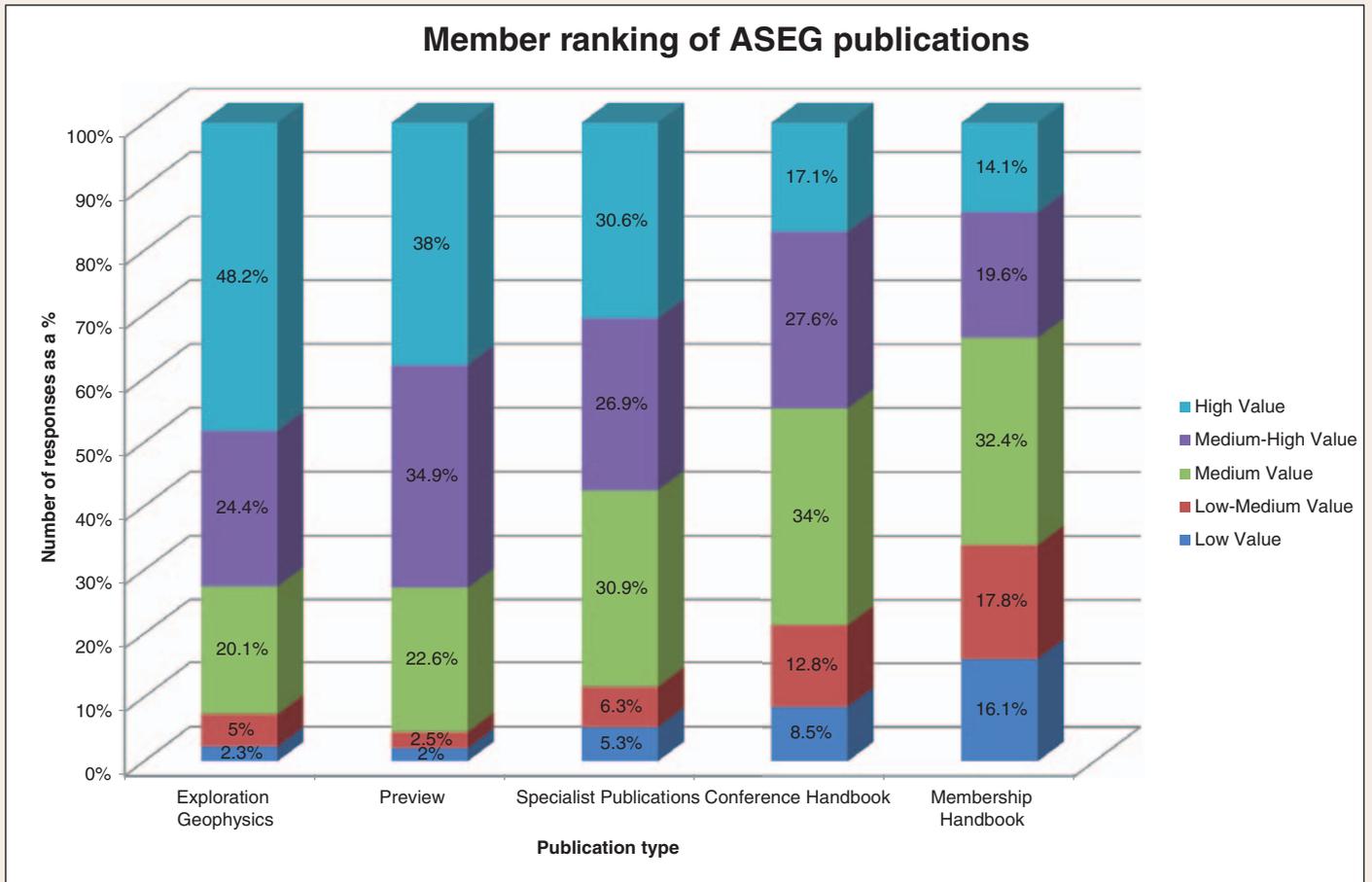


Question 10: Please indicate the value of the following ASEG membership benefits based on you and your career.



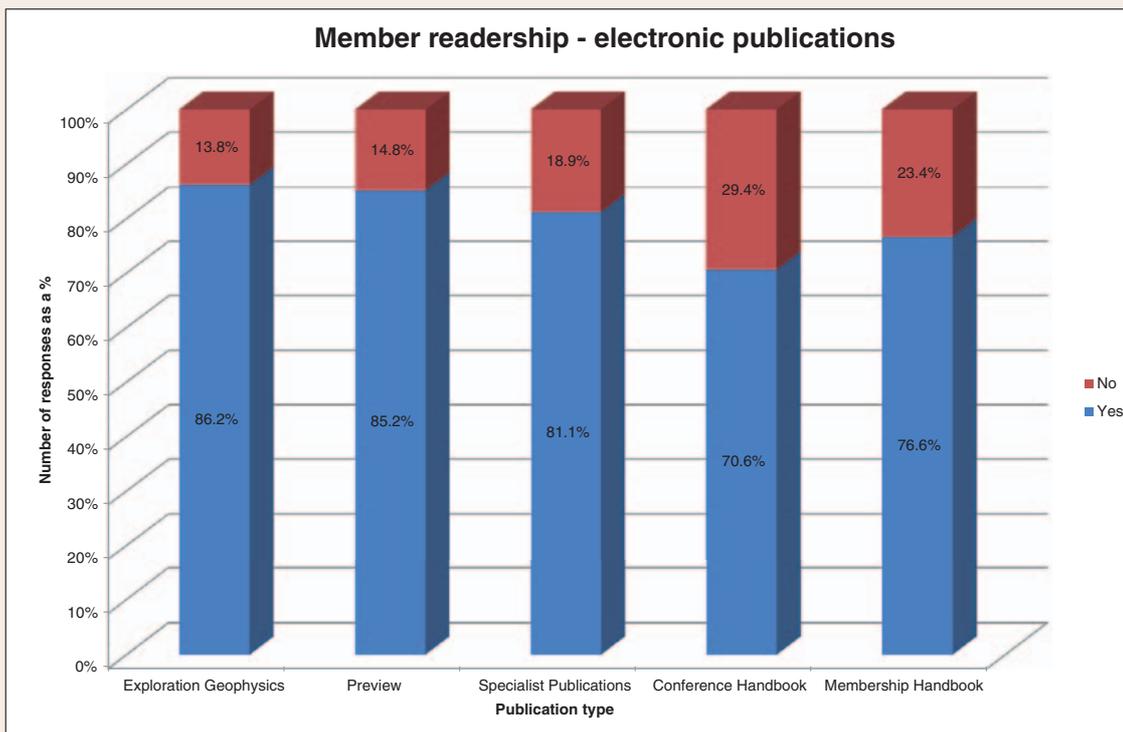


Question 11: Please rank the following ASEG publications.



Question 12: Would you continue to read these publications if they were only available electronically?

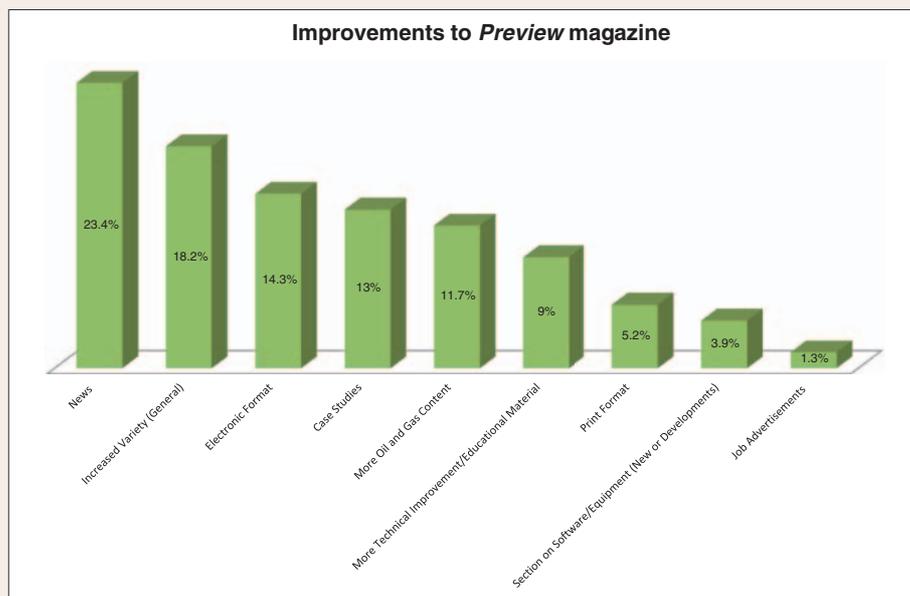
- Some Members have said that this impact could be reduced if an app was tailor made for *Preview*.
- Most comments indicate that our Members are comfortable with using, or are already using, a digital format to read articles in *Exploration Geophysics*; they use it as a research tool and are generally looking for specific topics/articles.



Question 13: Are there any improvements you would like to see in the Preview magazine?

- 312 (78%) No responses
- 77 (19%) Yes responses
- 4 (1%) Don't receive it
- 5 (1%) Don't read it

Question 13: Are there any improvements you would like to see in the Preview magazine? Detailed comments from the 77 'Yes' respondents.



Question 13: Are there any improvements you would like to see in the Preview magazine? Detailed comments from the 77 'Yes' respondents.

News

- Company news
- Oil/mineral discoveries
- University news
- Social news e.g. retirement of prominent geophysicists

Increased variety

- Themed issues
- Interpretation features
- Near-surface geophysics
- IP

- Rock properties
- TDEM
- Climate change/topical issues
- Global research
- Student papers
- Geophysicist features
- Company histories
- Equipment history
- Tips from older members on how to survive the boom and bust of our industry
- A comic strip

Electronic format

- See improvement through turning the publication electronic e.g. links to references
- Would like and use a phone app to read

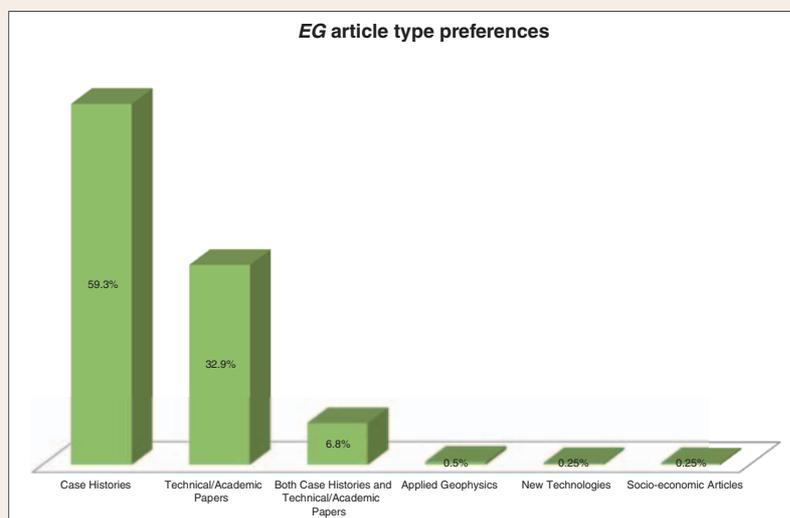
Print format

- Could make *Preview* smaller
- Better formatting for readability
- Snippets on the front cover
- Print on nicer paper (like *PESA Magazine*)

Question 14: Do you routinely read articles in Exploration Geophysics?

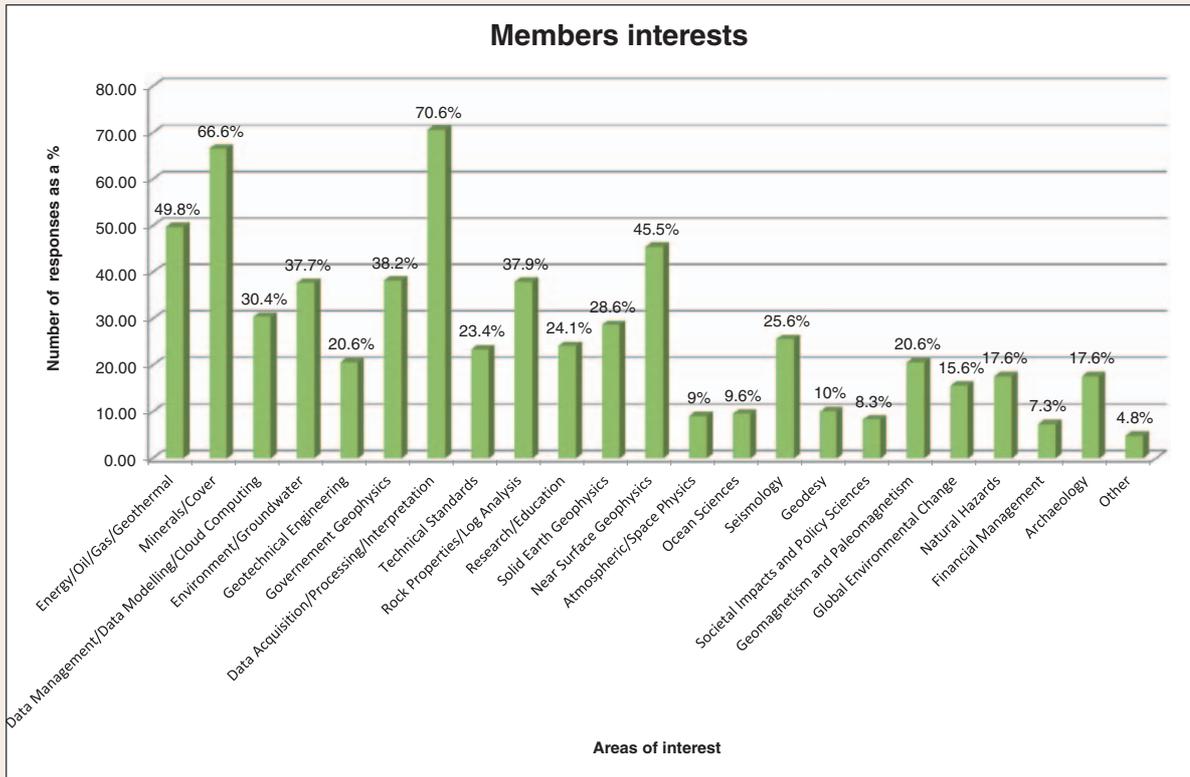
- 244 (62%) Yes responses
- 154 (39%) No responses

Question 15: Do you prefer?





Question 16: What are your areas of interest (select all that apply)?



Question 17: Do you identify as an early career geophysicist?

- 70 positive ('Yes') responses
- 57 emails/comments registered
- 34 NEW members to the Young Professional mailing list.

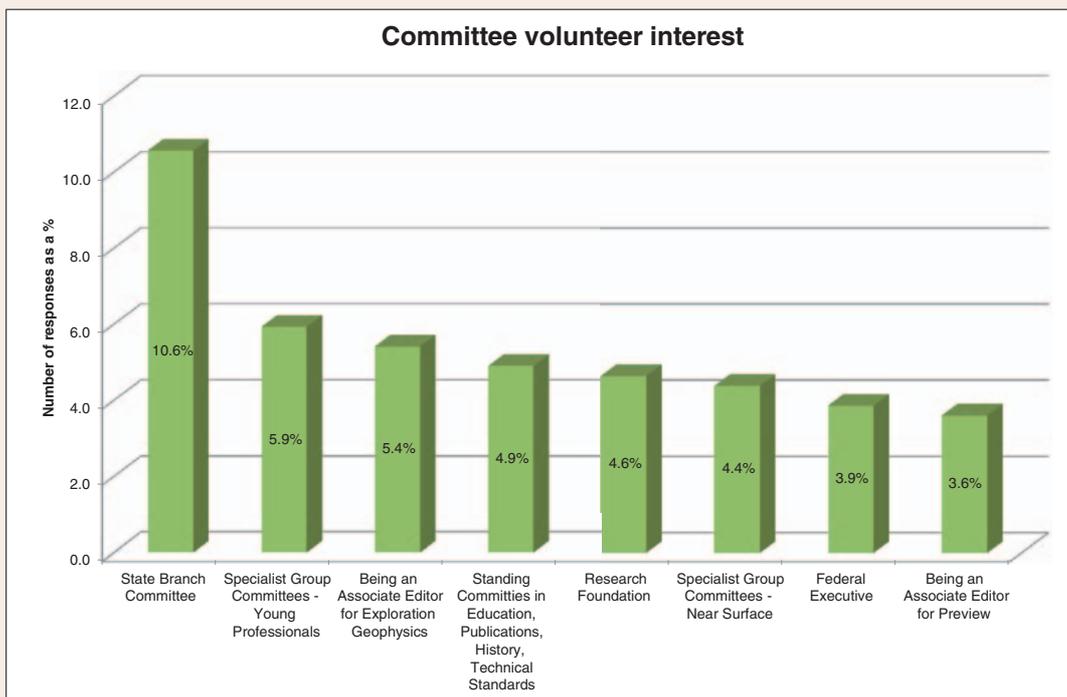
Question 18: Do you identify as a mentor?

- 84 positive ('Yes') responses
- 69 emails/comments registered

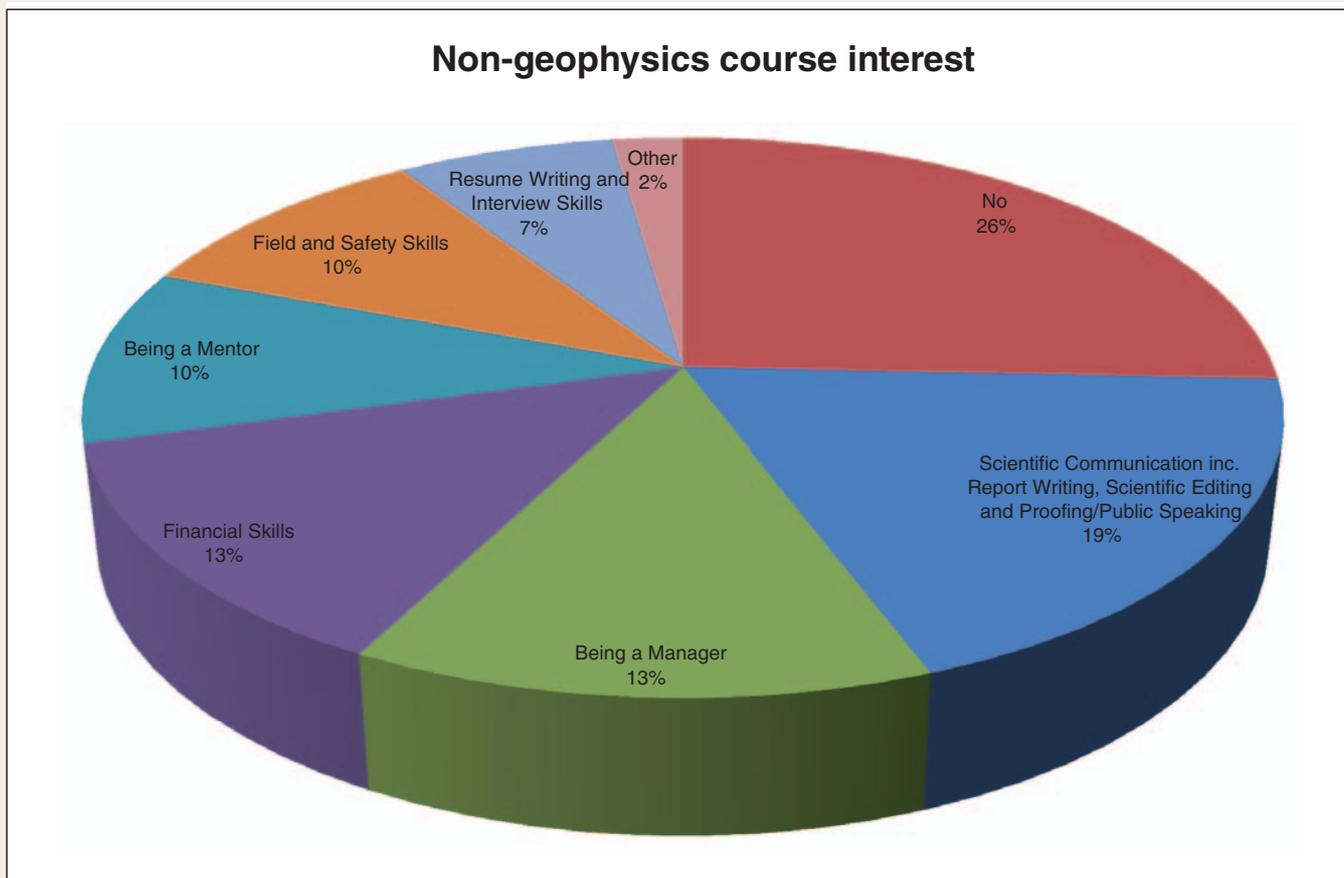
Thank you to the 50 people who nominated themselves as mentors.

Question 19: Are you interested in helping to direct the future of the ASEG by joining a Society committee?

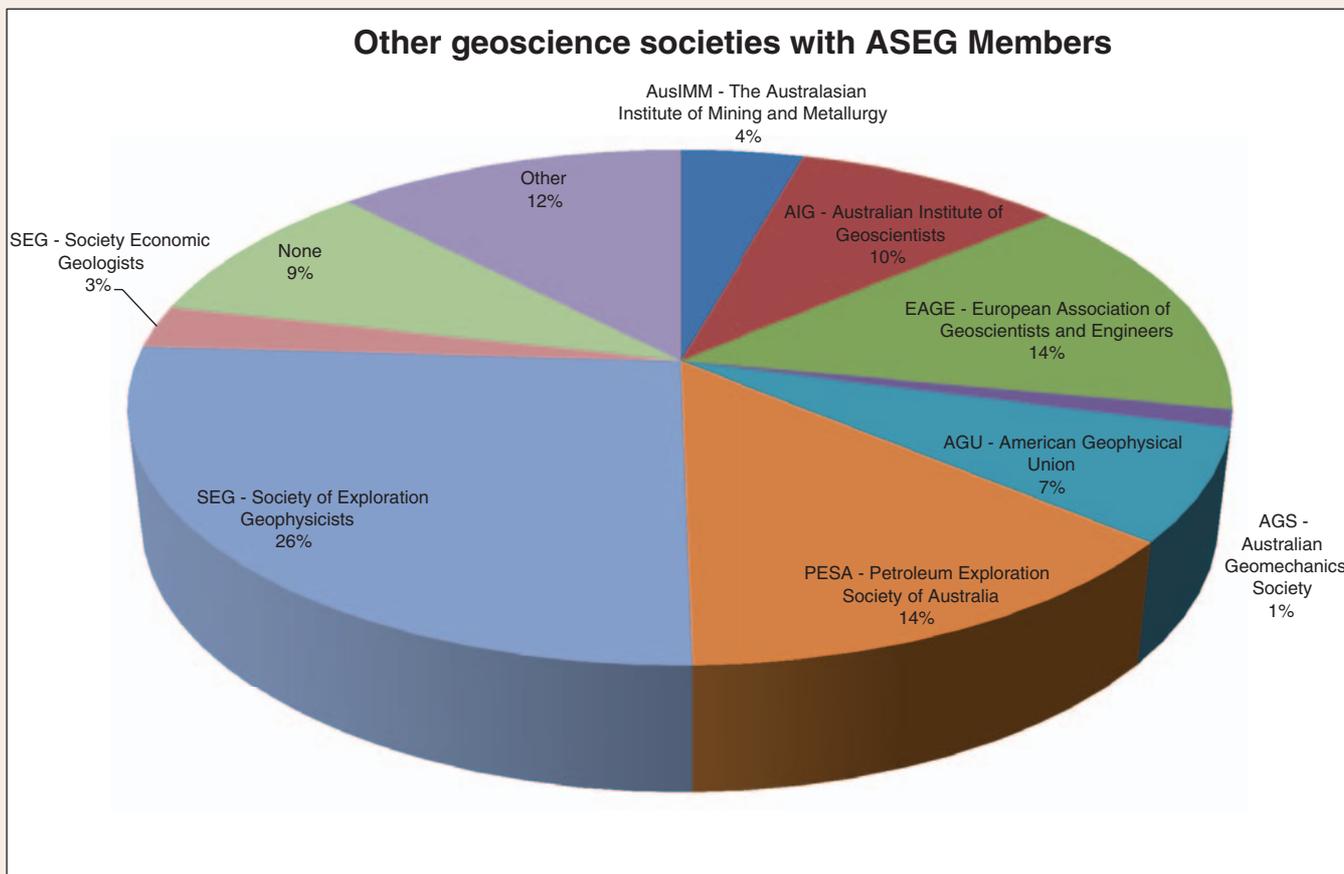
- 87 positive responses
- 37 emails registered



Question 20: Are there other non-geophysics related skills that you would like to develop and have access to courses through the ASEG?

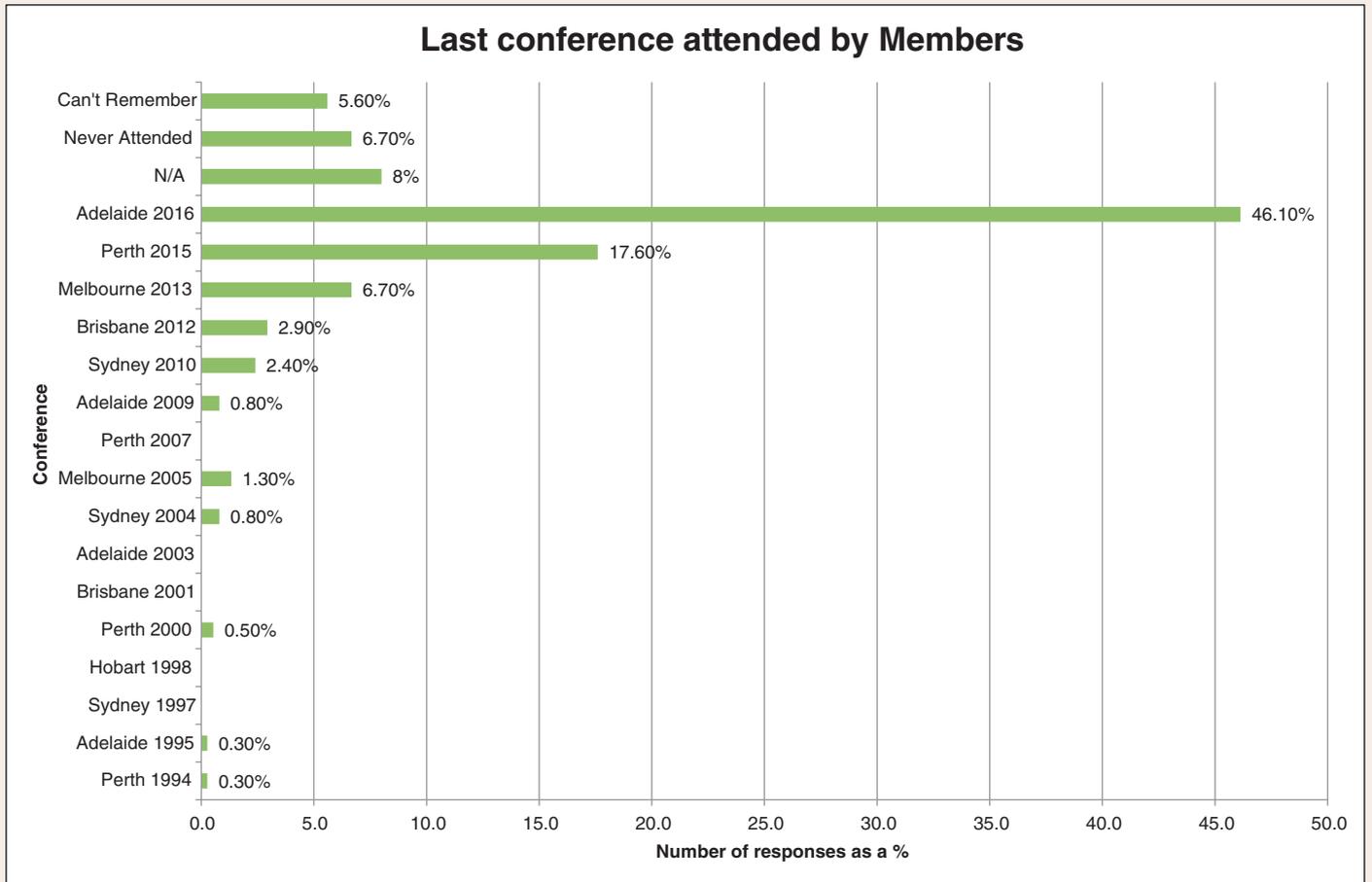


Question 21: Please select the other geoscience societies you belong to.

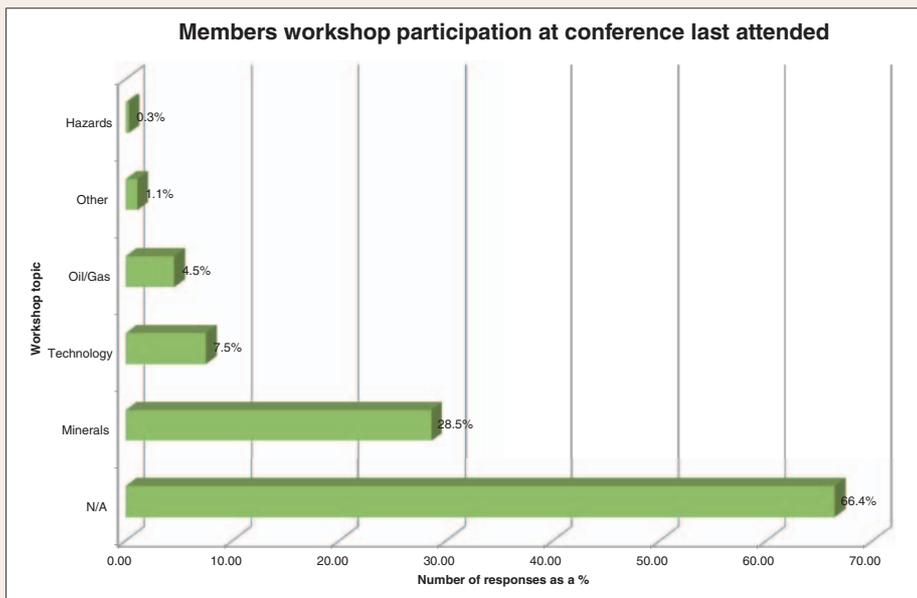




Question 22: What is the most recent ASEG conference you attended?



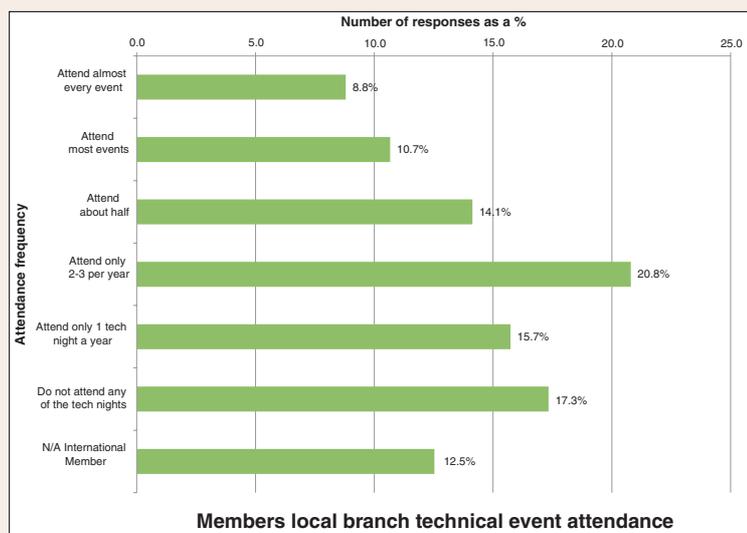
Question 23: Did you participate in any workshops at that conference?



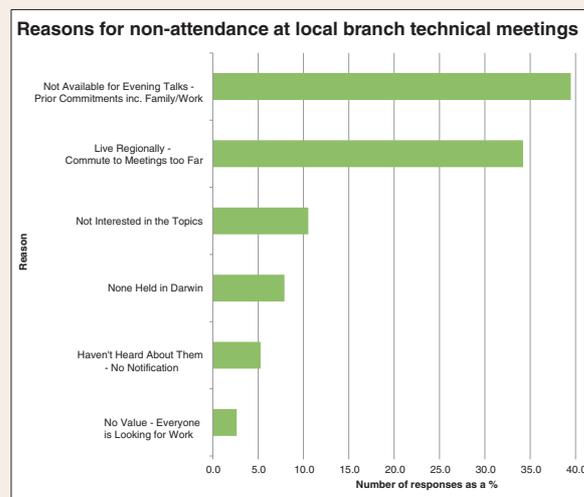
Question 24: If the ASEG were to arrange independent child care facilities at conferences and technical events would you be interested?

- 29 (8%) Yes responses
- 127 (34%) No responses
- 214 (58%) NA responses

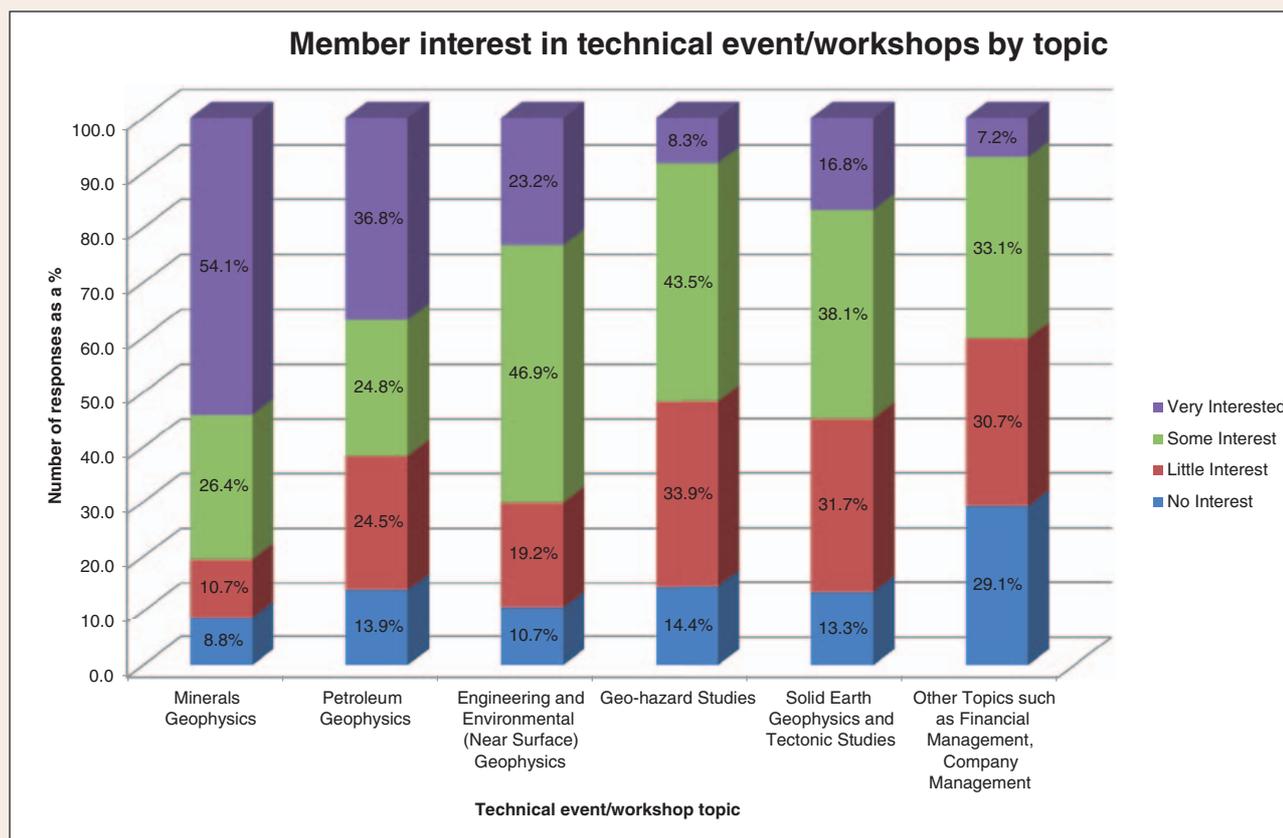
Question 25: How often do you attend local ASEG Branch technical events?



Question 25: How often do you attend local ASEG Branch technical events? Detail:



Question 26: Please indicate your level of interest in the following topics for technical events/workshops?



Question 27: Would you be willing to present at your local or interstate Branch?

- Thank you to the 17 people who nominated themselves to speak at their local branch. Your local branch president will be contacting you shortly.

Summary of survey results generated by Megan Nightingale and Marina Costelloe.

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



## News from the ASEG Young Professionals Network

Although the weather may be freezing in some parts of Australia, things are slowly hotting up for the ASEG YP SIG. If you like what you see, then it's never too late to join this group to ensure front row access to some great events that may help to kickstart your career.

First up is an event being held on 17 October for Melbourne-based YPs who are Members of either ASEG or PESA. We are kickstarting a mentoring programme where we shall attempt to effectively 'match-make' volunteer mentors with YPs looking to have some long-term career guidance and support. An informal networking event is planned to roll-out the initiative, to make introductions to mentors where possible and to discuss the training needs for YPs. We've also arranged for Peter Stickland, who is the MD of Melbana Energy and a Board Member of APPEA, to provide an overview on the state of the petroleum industry, which should help set expectations for those keen on entering that sector.

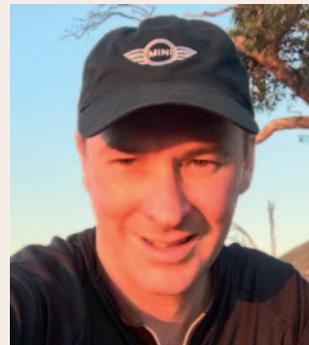
Second, in conjunction with the Education Committee, we've been busy identifying a range of training opportunities in the form of workshops,

lectures and short courses. Wearing our YP SIG hats, we've focussed on what might be referred to as 'soft skill' training, with a view to building a portfolio of training opportunities that might be offered at conferences or rolled out through the states. Please don't hesitate to email [ypadmin@aseg.org.au](mailto:ypadmin@aseg.org.au) with any ideas or requests on that front.

In this vein, registration has opened for a 1-day workshop focussing on presentation skills to be held prior to the AEGC conference (to register visit the ASEG/Events website, or follow the link: <https://www.aseg.org.au/presentation-skills-workshop>). The workshop is open to anyone attending the conference (with discounts applying for Members) but it is envisaged that it may appeal most to YPs who are not 'set in their way' when it comes to presenting. I've been working closely with the workshop leader, Doug Knight ([www.Doug-Knight.com](http://www.Doug-Knight.com)), to adapt his workshop to address typical geoscience presentations. Without giving too much away, one of Doug's goals is to help participants to feel comfortable in their own communication style and to get their message across to an audience in

an interesting and memorable way. I can guarantee it will be a fun day watching a bunch of geoscientists attempt to break the traditional presentation mould!

Finally, Megan Nightingale has been busy trying to arrange sponsorship and a suitable meeting place for YPs at the AEGC conference (held in February in Sydney). We'll be joining forces with the AIG and PESA and we hope to arrange a social evening for YPs, so keep some calendar space free for that if you're planning on attending the conference.



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



# GEM

GEOPHYSICS

Specialists in ground Electro Magnetic Surveys  
for mineral exploration Australia and International

## The Jessy Deep HT Squid

NEW



**Capabilities:**

- Ultra sensitive receiver for ground transient electromagnetic (TEM) measurements
- Data recorded 10 times longer or 3 times deeper
- Ideal for measuring targets covered by a conducting overburden
- Direct measurement of the magnetic field
- High magnetic field resolution at low frequencies
- Flat frequency response from dc up to 10 kHz

Please contact Ben Morgan for more information.

p: +61 8 9739 2011  
f: +61 8 9739 2012

e: [gem@gemgeophysics.com.au](mailto:gem@gemgeophysics.com.au)  
w: [www.gemgeophysics.com.au](http://www.gemgeophysics.com.au)

## ASEG Branch news

### Victoria

It has certainly been a busy couple of months for the Victorian branch. We got underway in July with a last-minute replacement speaker for our technical night. With open arms we gratefully welcomed **Bala Kunjan** from CUE Energy, who offered a refreshing overview of the probabilistic nature of exploration prediction inherent in the oil and gas business. His synopsis duly titled 'The challenges with exploration chance of success predictions and suggestions to manage them' captured the essence of the risks, costs and rewards aspects of exploration expectation and their outcomes. We thank Bala for his insightful contributions and wish him all the best during September as he presents at the PESGB and various chapters of the SPE in Europe.

August was certainly our busiest month as we kicked it off with another technical meeting at the Kelvin Club. Associate Professor **Steven Micklethwaite** from Monash University delivered a captivating perspective on the application of Unmanned Aerial Vehicles ('UAVs'), or simply 'drones', for use in geological innovation. His presentation, 'Making Supergeos: Drones and A.I. for Earth Sciences and Industry' portrayed the rapidly growing disruptive technology drones are providing to the resources sector for accelerating multi-scale recording of vast amounts of optical and geophysical data that could deliver results within minutes of acquisition. Steven's address has certainly piqued our interest in drone technology and the future applications it could bring to the resources industry. Thank you, Steven!

We ended August with the annual Winter Social gathering hosted together with our sister PESA branch at Henry and The Fox. The turnout was excellent despite the event being held outdoors on a cold Melbourne winter's night. Light discussions on the state of our industry and the incredible opportunities before us could be overheard amongst attendees. Thank you to everyone who joined us for a tipple or two.

It has been months in the making, so it brings us immense pleasure to announce the launch of the joint ASEG-PESA Victoria Young Professionals Mentoring Programme! The programme is designed

to help young professionals in obtaining local support in their career development from experienced members. The programme will be launched at a special event to be held on Tuesday 17 October at Melbourne University. Keep an eye out for updates!

Finally, we had the pleasure of welcoming **Tom Whiting** as our September technical meeting speaker. Tom is a celebrated exponent of applying new exploration technologies in our industry and has had tremendous success during his illustrious career. We are also in the throes of securing our October technical meeting speaker so stay tuned!

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

### Western Australia

The WA Branch continues to be very active with Tech Night presentations. In August the Branch hosted **Ben Jupp**, SRK Consulting, who presented a case study on the use of geophysics at the Mt Magnet gold camp. In September **Bee Jik Lim**, Area Geophysicist WesternGeco, presented 'Marine Seismic Acquisition: Environmental Impact Benefits from New Design Marine Source'. Both talks were well attended and received by Members.

The WA Branch is pleased to welcome the following companies as sponsors for the 2017–2018 financial year: Globe Claritas (Platinum), Resource Potentials (Gold), Western Geco, NRG Australia, First Quantum Minerals (Australia) Pty Ltd, Southern Geoscience, GPX Surveys, HiSeis, NGI, Geosoft, CGG (Silver), Atlas Geophysics, ExploreGeo, and a personal Bronze sponsorship in memory of Marion Rose. The Branch could not put together a wide range of technical activities without the support of our sponsors, and we look forward to a long standing partnership with these companies.

The WA Branch has awarded two student awards this year, with the successful applicants being **Alexander Costall** and **Sean Standen**. These applicants were selected based on the quality of their application, academic performance and relevance of study, and level of active engagement in the university, geophysical and general community. Congratulations to both Alexander and Sean who win \$2000 each. Also thank you to the selection

committee (**Brett Adams**, **Lianping Zhang**, and **Emanuelle Frery**) for their efforts in reviewing the applications, and thanks also to **Prue Leeming** for coordinating the Award Programme.

Our technical programme has presenters lined up through the end of the year with the following presenters:

- October – **Bill Peters** (Southern Geoscience) presenting on geophysics for nickel-copper exploration; and
- November – Student presentations from UWA and Curtin University.

The schedule is subject to change due to speaker availability. Please check the website for up-to-date information. We are excited about the programme of events planned for 2017 and look forward to catching up with our fellow Members.

We will be hosting the Branch AGM and Christmas Party in December. It is planned to have an informal BBQ function at Kings Park (subject to availability of gazebo). All of the statutory positions (President, Secretary and Treasurer) are open for nomination and anyone interested in joining the ASEG WA Branch committee as a member or in one of these statutory roles are encouraged to lodge a nomination form ahead of the AGM. Further information will be circulated to Members shortly.

*Kathlene Oliver*  
[wapresident@aseg.org.au](mailto:wapresident@aseg.org.au)

### Australian Capital Territory

In August the ACT Branch enjoyed a guest speaker presentation from the 2017 SEG Honorary Lecturer – **Koya Suto**, entitled 'A Hitchhiker's Guide to Geophysics'. Koya's presentation guided us around the fascinating world of geophysics and provided us with a number of interesting analogies and metaphors to help describe complex geophysical concepts. The presentation also provided to the Branch with a fantastic resource for teaching and promoting geophysics to a non-specialist audience.

In September the ACT Branch was delighted to host a Gold Medal Award ceremony for **Richard Lane**. The ASEG Gold Medal has only been awarded



ACT Branch members with 2017 SEG Honorary Lecturer Koya Suto.

a handful of times throughout the ASEG's history and is awarded for exceptional and highly distinguished contributions to the science and practice of geophysics, resulting in wide recognition within the geoscientific community. Congratulations Richard for receiving such a prestigious award!

Two students, **Marcus Haynes** and **Taimoor Sohail**, are congratulated for receiving Student Scholarship Awards from the ACT Branch. The Branch looks forward to learning more about 'Australian Shallow Crustal Temperature and Heat Flow' from Marcus and 'A Turbulence-Resolving Model of Southern Ocean Circulation' from Taimoor in their presentations to the Branch in November.

*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, **Alan Oertel** from the CSIRO spoke about 'Non-linear IP effects in sulphides. Can this effect be used to determine the mineralogy of conductive targets?'. Alan went through the background theory to the topic and then showed results from the many laboratory experiments and finally showed the 'hot off the presses' results from the just completed field trials. Many questions and much discussion followed Alan's presentation.

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 the Queensland Branch hosted the **Doug Oldenburg** SEG DISC course, which set out to promote fundamental understanding about principles of electromagnetics and how the different surveys make use of these principles to tackle a broad spectrum of problems using EM geophysics.

The Annual ASEG/PESA Trivia night was held at the stock exchange on 8 August. There was a great industry turnout with the Energetics team winning by a narrow margin, taking the last year's crown from Velseis team.

September's Branch meeting saw Geological Survey of Queensland Geophysicist **Janelle Simpson** present

a well-received and interactive presentation on interpreting geology from magnetotelluric data.

In early October the Qld branch of the ASEG will coordinate an overnight, student field trip to a 2D seismic survey near Chinchilla in October. It will be a fantastic opportunity for a small group of students to get some hands-on experience on the operational side of seismic.

An invitation to attend Queensland Branch meeting is extended to all ASEG Members and interested parties. Details of all upcoming Queensland events can be found on the Qld Events tab on the ASEG website.

Mark Kneipp  
[gldsecretary@aseg.org.au](mailto:gldsecretary@aseg.org.au)

### South Australia & Northern Territory

Since the last SA/NT Branch update the SA membership has only enjoyed one technical evening. In July we were joined by Dr **Mike Hatch**, who was representing Vista Clara Inc., Zonge Australia and the University of Adelaide with his talk 'NMR Geophysics Applied to Groundwater and Environmental Investigations: Show me the Water!' Mike gave a very interesting review of some of the work he has been doing over the previous months comparing in-wellbore nuclear magnetic resonance responses to changes in water tables, both by natural seasonal variation and through human use of water resources, to the

ground-based non-invasive GMR system. We thank Mike for spending the time to present on these powerful tools which can be employed in the search for and monitoring of groundwater resources, with numerous examples from both Australia and the US.

In August we were also very happy to host Prof **Doug Oldenburg** and **Lindsey Heagy** halfway through the Australian leg of their tour presenting his 2017 DISC, 'Electromagnetics Fundamentals and Applications'. The first day, the formal part of the course, was very well received and we had a great turnout of participants both from the SA/NT Branch and from interstate. The second day saw a much more informal group discussion led by Doug dealing with specific local issues and case studies, again this was very well received and many of the participants relayed to me that this was a very valuable session, which added a great deal to the previous day's lectures. Many thanks to Doug and Lindsey for coming to Adelaide to present and to the Hotel Richmond and the University of Adelaide for the use of their facilities.

Our technical meetings are made possible by our very generous group of sponsors, including the Department of the Premier and Cabinet, Beach Energy, Minotaur Exploration, and Zonge. Of course, if you or your company are not in that list and would like to offer your support, please get in touch at the email below.

As usual, further technical meetings will be held monthly, at the Coopers Alehouse

on Hurtle Square in the early evening. We invite all Members, both SA/NT and interstate to attend, and of course any new Members or interested persons are also very welcome to join us. For any further information or event details, please check the ASEG website under SA/NT Branch events and please do not hesitate to get in touch at [joshua.sage@beachenergy.com.au](mailto:joshua.sage@beachenergy.com.au) or on 8338 2833.

Josh Sage  
[sa-ntpresident@aseg.org.au](mailto:sa-ntpresident@aseg.org.au)

### Tasmania

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 programme 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.

Please contact the ASEG Tasmania Branch President **Mark Duffett** with any queries.

Mark Duffett  
[taspresident@aseg.org.au](mailto:taspresident@aseg.org.au)

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

Date	Branch	Event	Presenter	Time	Venue	
	Oct	QLD	Student field trip	Various	TBA	Chinchilla
11	Oct	WA	Tech night	Bill Peters	1730–1900	TBA
17	Oct	VIC	Launch of the ASEG-PESA Victoria Young Professionals Mentoring Programme	Peter Stickland	TBA	The University of Melbourne, Melbourne
18	Oct	NSW	Tech night	TBA	1730–1900	99 on York, 99 York Street, Sydney
18	Oct	VIC	Tech night	TBA	1800–2000	The Kelvin Club, 14–30 Melbourne Place, Melbourne
08	Nov	WA	Student presentations	Various	TBA	TBA
09	Nov	VIC	Victorian Universities Earth and Environmental Student Conference	Various	TBA	The University of Melbourne, Melbourne
	Nov	ACT	Student presentations	Various	TBA	Geoscience Australia, Symonston, Canberra
15	Nov	NSW	Tech night	TBA	1730–1900	99 on York, 99 York Street, Sydney
13	Dec	NSW	Tech night	TBA	1730–1900	99 on York, 99 York Street, Sydney
	Dec	WA	AGM & Christmas party	TBA	TBA	Kings Park, Perth

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



## Final call to nominate a colleague for an ASEG Honour or Award for 2018

**NOMINATIONS CLOSING 13 DECEMBER 2017**

The ASEG acknowledges the outstanding contributions of its individual Members both to the profession of geophysics and to the ASEG, through the presentation of the Society's Honours and Awards across a range of categories. The next Awards are scheduled to be presented in conjunction with AEGC 2018, to be held from 18–21 February 2018 in Sydney.

All ASEG Members, as well as State and Federal executives, are invited to nominate those they consider deserving of these awards. The available awards are:

- **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.
- **Honorary Membership** – For distinguished contributions by a Member to the profession of exploration geophysics and to the ASEG over many years.
- **Grahame Sands Award** – For innovation in applied geophysics through a significant practical development in the field of instrumentation, data acquisition, interpretation or theory.
- **Lindsay Ingall Memorial Award** – For the promotion of geophysics to the wider community.
- **Early Achievement Award** – For significant contributions to the profession by a Member under 36 years of age through publications in *Exploration Geophysics* or similar reputable journals, or overall contributions to geophysics, ASEG Branch activities, Committees, or events.
- **ASEG Service Awards** – For distinguished service by a Member to the ASEG.

ASEG Members are eligible for all award categories. Non-members also are eligible for the Lindsay Ingall and Grahame Sands awards. Under exceptional circumstances, the other awards may be offered to a non-member of the ASEG who has given appropriate service to the ASEG or to the profession of geoscience, and who has been duly nominated by the Federal Executive.

### Nomination procedure

Any Member of the Society may submit nominations for an award. 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. ASEG, GSA, AusIMM, AIG, PESA, or similar).

The awards carry considerable prestige within the ASEG and the geoscience profession. Therefore, appropriate documentation is required to support each nomination. Nominations must be specific to a particular award and all aspects of the defined criteria should be addressed.

Further details of the award categories, lists of previous awardees and citations

for recent awards, award criteria, nomination guidelines and nomination forms can be found on the ASEG website at: <https://www.aseg.org.au/about-aseg/honours-awards>.

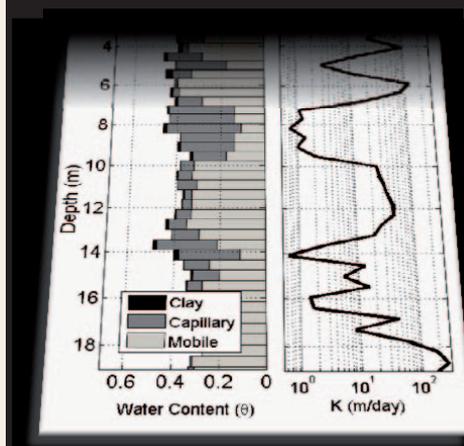
Further information can be obtained by contacting the Chair of the Honours and Awards Committee. All correspondence and nominations will be treated confidentially.

Nominations including digital copies of all relevant supporting documentation are to be emailed to:

*Andrew Mutton*  
ASEG Honours and Awards Committee  
Chair  
[awards@aseg.org.au](mailto:awards@aseg.org.au)

**Nominations close Wednesday 13 December 2017.**

## Hydrogeologic Properties Measured with NMR



Water Content  
Porosity  
Permeability  
Transmissivity  
Specific Yield

Logging through PVC or open holes  
& Non-invasive surface imaging

Sales | Rentals | Services  
[www.vista-clara.com](http://www.vista-clara.com)

