

President's piece



Andrea Rutley

It is with pleasure that I welcome you all to the first Australasian Exploration Geoscience Conference, incorporating the 26th ASEG Conference and Exhibition. Sydney is a fantastic city and a great location to host the conference. With the themes of Exploration, Innovation and Integration we will be treated to a fantastic few days of geoscience, which will no doubt stay with us for many years. The integration of all our geoscience disciplines is an ideal opportunity for us

all to explore aspects of our professions that we may not have considered in detail. Not only will we have the opportunity to hear from experts in their fields, but we will also have networking opportunities that can only enhance our continual professional development.

The joint organising committee has excelled in providing a program of oral and poster sessions that cover a diverse range of disciplines, captured over three days. Additionally, the exhibition space will be filled with local and international exhibitors keen to promote their latest technology. These provide excellent opportunities to review the latest and greatest on offer, and to share an evening drink with colleagues and ponder how to implement all the innovations at once!

With so much on offer for the duration of the conference it is hard to imagine why you would want to stray from the Convention Centre, but should you feel the need, Sydney is a destination in itself

to explore. There are quite a number of restaurants and bars all within close proximity to the Centre, providing ideal venues to continue the networking into the evening.

The conference program starts strong, with keynote addresses in Coal, Case Histories, the Western Australian Basins Symposium and geophysical streams. The diverse range and depth of knowledge that is being presented at the conference will surely keep everyone fully engaged for the three days.

On behalf of the ASEG, I thank the organising committee for their huge effort in putting together this conference, and as delegates, presenters and exhibitors, I welcome you all to Sydney and to the first Australasian Exploration Geoscience Conference.

Andrea Rutley
ASEG President
president@aseg.org.au



Introducing the next generation of HTDEM technology

New Resolution Geophysics (NRG™) has developed the Xcite™ system, a new generation of helicopter-borne time-domain electromagnetic (HTDEM) systems by incorporating the latest new-age, high speed electronics and sophisticated aeronautical engineering. Xcite™ is now commercially available for survey and provides an unparalleled alternative to existing HTDEM technologies for the minerals exploration and geoscience mapping community.

T +27 (0) 21 789 0509 | F +27 (0) 86 675 6338 | South Africa
T +61 (0) 8 9447 4600 | F +61 (0) 8 9243 8791 | Australia
www.airbornegeophysics.com

Features of the system include:

- Innovative patented loop design
- Exceptional signal/noise
- Logistically superior in setup and shipping
- Excellent depth of investigation
- Performance in both early and late time



ASEG Federal Executive 2017–18

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

Marina Costelloe: President Elect
Tel: (02) 6249 9347
Email: presidentelect@aseg.org.au

Megan Nightingale: Secretary
Tel: 0438 861 556
Email: fedsec@aseg.org.au

Danny Burns: Treasurer (Finance Committee Chair, Publications Committee Co-Chair)
Tel: 0407 856 196
Email: treasurer@aseg.org.au

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

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

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

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

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

Standing Committee Chairs

Finance Committee Chair: Danny Burns
Tel: 0407 856 196
Email: treasurer@aseg.org.au

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

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

Conference Advisory Committee Chair:
Michael Hatch
Email: cac@aseg.org.au

Honours and Awards Committee Chair:
Andrew Mutton
Tel: 0408 015 712
Email: awards@aseg.org.au

Publications Committee Co-Chairs:
Danny Burns and Greg Street
Tel: –
Email: publications@aseg.org.au

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

ASEG History Committee Chair:
Roger Henderson
Tel: 0408 284 580
Email: history@aseg.org.au

International Affairs Committee Chair:
Katherine McKenna
Tel: (08) 9477 5111
Email: international@aseg.org.au

Education Committee Chair: Andrea Rutley
Tel: (07) 3834 1836
Email: continuingeducation@aseg.org.au

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

Research Foundation Chair: Philip Harman
Tel: 0409 709 125
Email: research-foundation@aseg.org.au

Research Foundation – Donations: Peter Priest
Email: pwpriest@senet.com.au

Specialist Groups

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

Young Professionals Network
President: Megan Nightingale
Tel: 0438 861 556
Email: ypadmin@aseg.org

ASEG Branches

Australian Capital Territory

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

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

New South Wales

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

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

Queensland

President: Fiona Duncan
Tel: 0419 636 272
Email: qldpresident@aseg.org.au

Secretary: Mark Kneipp
Tel: 0407 308 277
Email: qldsecretary@aseg.org.au

South Australia & Northern Territory

President: Joshua Sage
Tel: 0438 705 941
Email: sa-ntpresident@aseg.org.au

Secretary: Adam Davey
Tel: –
Email: sa-ntsecretary@aseg.org.au

NT Representative: Tania Dhu
Tel: 0422 091 025
Email: nt-rep@aseg.org.au

Tasmania

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

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

Victoria

President: Seda Rouxel
Tel: 0452 541 575
Email: vicpresident@aseg.org.au

Secretary: Thong Huynh
Tel: –
Email: vicsecretary@aseg.org.au

Western Australia

President: Heather Tompkins
Tel:
Email: wapresident@aseg.org.au

Secretary: Matt Owers
Tel:
Email: wasecretary@aseg.org.au

The ASEG Secretariat

Alison Forton
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

INSTRUMENTATION FOR GEOSCIENCE APPLICATIONS

CoRMaGeo
is exhibiting at
AEGC 2018 – Booth 9



MS2/MS3 Magnetic Susceptibility System for laboratory, field and borehole applications. Resolution down to 2×10^{-6} SI. Used in environmental magnetics and oil & gas exploration. Deep borehole tool, with operation to 6000m, for use in mineral exploration.

Mag-03/Mag-13 Range of three-axis fluxgate magnetometers with low noise ($<4\text{pTrms}/\text{VHz}$) and wide bandwidth (DC-12kHz) versions. Used in surface or borehole electromagnetic surveys for mineral exploration, or as part of an airborne magnetic survey system.

Helmholtz Coils Diameters from 350mm to 2m. Used with power amplifier and control unit for the generation of precise magnetic fields. For calibration of magnetic field sensors including directional drilling tools.



CoRMaGeo Instruments Pty. Limited
Sales, Service & Rental of
GeoScientific Instruments & Software
T: +61 411 603 026
E: john.peacock@cormageo.com.au
W: www.cormageo.com.au

CoRMaGeo
INSTRUMENTS

Bartington™
Instruments

ASEG Branch news

Australian Capital Territory

The ACT Branch was excited to begin 2018 by hosting guest speaker Dr **Carina Kemp** in January. Carina presented on *Leveraging New Technologies from the Web to Improve Data Delivery: Implications for Geophysical Data*. The presentation detailed the latest developments in data delivery for magnetics, radiometrics, gravity and AEM data for Geoscience Australia. These developments were made possible by leveraging technologies outside those used by the typical exploration geophysicist. Carina also highlighted the potential for these new technologies to be applied to delivery of 3D geophysical inversion models.

Also, the ACT Branch is looking forward to a number of events this year so keep an eye out for more details on the following:

- The ACT Branch Annual General Meeting with guest speaker **Simon van der Wielen** presenting on *The Geophysical Reference Model of South Australia* (15 March)
- SEG Workshop on *Seismic Anisotropy: Basic Theory and Applications in Exploration and Reservoir Characterisation* presented by **Professor Ilya Tsvankin** (5–6 April)
- SEG Honorary Lecturer **Mazin Farouki** presenting on *Dense Sampling in Marine Seismic: Efficiency in Acquisition without Compromising Data Quality* (date TBA)

Wishing you all an enjoyable time at the AEGC 2018 conference this month!

James Goodwin
actpresident@aseg.org.au

New South Wales

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

The last Queensland Branch meeting for 2017 enjoyed a UQ honours student presentation. **Mitchell Simpson** presented *Analysis of Azimuthal Anisotropy in Shallow-Target 3D-3C Seismic-Reflection Data*. The presentation was well attended and equally well received. We wish Mitchell success in his new role at Woodside in 2018.

We will be starting the year with a presentation by **Sylvia Michael** on February 6. We are currently looking for speakers to fill our calendar for 2018, if you would like to volunteer a talk please contact qldpresident@aseg.org.au or qldsecretary@aseg.org.au.

An invitation to attend Queensland Branch meetings 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.

Fiona Duncan
qldpresident@aseg.org.au

South Australia & Northern Territory

Since the last edition of *Preview*, the SA/NT Branch has only held one event, our final one for 2017 and one that was a very relaxed and enjoyable lead-in to the Christmas and New Year period. This event was our November technical evening, Annual Student Night and Christmas Party. It was as popular as ever, with a great turnout in support of the local students who gave presentations on their recently completed honours projects. **Sam Jennings**, **Ania Manka**, and **Ben Kay** all did a fantastic job presenting the background and results of their chosen areas of study, with a very interesting variety of topics from identification of fluid pathways in the deep crust using magnetotellurics, to the importance of very shallow lithological effects on seismic depth conversion, with some compositionally based thermal conductivity modelling in between. Special congratulations go to Ben Kay, who was awarded the prize for the best presentation but, as only a handful of votes separated the three speakers, all the students should be congratulated on the quality and content of their projects and the enthusiasm with which they presented to the Branch.

After the official business of the evening was complete, all the attendees were invited to stay and celebrate the festive season. The Branch thanks each of the speakers for their efforts and willingness to present, and also all the Members who came along to support and vote for them and to make the evening a success.

The local Branch held a number of other successful technical talks, student events and other industry events in 2017, with numerous local, interstate and overseas guest speakers. The Branch also has a healthy social calendar. We would like to thank all of our 2017 sponsors, the Department of the Premier and Cabinet, Beach Energy, Minotaur Exploration, and Zonge. Without their support we would not be able to hold such full program of events for the local Members. We will be in touch with all our 2017 sponsors hoping they will return for 2018. Of course, if you or your company are not in the above list and would like to offer your support, please get in touch at the email address below.

I would also like to thank the 2017 Branch Committee, with special mentions to **Adam Davey** our Treasurer and **Mike Hatch** our Secretary for all of their hard work, especially given the amount of extra time some of our events require. Also thanks must go to **Phil Heath**, the continual driving force behind the SA/NT Branch Wine offer and our representative on the SAEMC committee. Every committee member's efforts are much appreciated by me and the local Branch Members alike. For everyone continuing, I look forward to working with you in 2018. We also welcome any interested Members to the local committee and any commitment, large or small, is appreciated.

Please keep an eye out for events in 2018 on the website and in your inbox. As usual, further technical meetings will be held monthly at the Coopers Alehouse on Hurtle Square in the early evening. We start in March with the AGM, date TBA but following AEGC 2018. If you are interested in joining the committee or holding a position on the Branch Executive, nomination forms will be sent out early next year.

We invite all Members, both SA/NT and interstate to attend any of our meetings and, of course, any new Members or interested persons are also very welcome



ASEG news

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 or on 8338 2833.

Josh Sage
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 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 Victorian Branch of the ASEG welcomes you to 2018 and, wherever you are, we look forward to bringing you another exciting calendar of events. Welcome, welcome, welcome!

We concluded 2017 with the traditional end of year joint ASEG-PESA Christmas technical meeting, which was held at the Kelvin Club on 13 December. Branch Members had the pleasure of hearing from two of the petroleum industry's most seasoned entertainers; Kevin Hill and Dave Moreton. Messrs Hill and Moreton presented *Turkey Talk Two: Geology and Ancient Civilizations in West Anatolia, Turkey* to a captivated audience.

As customary, we expect to kick off the year with the annual joint Summer Social. Date and venue are yet to be finalised so keep an eye out for further information. What's more, if you haven't already done so, your Committee Members encourage you to renew your ASEG membership for 2018. Your support is crucial to the on-going efforts of your Society and ensures we continue to remain at the frontiers of our industry!

Finally, the very first ever Australasian Exploration Geoscience Conference will be held in Sydney from the 18–21 February 2018. Early bird registrations have already closed but there's still ample time to get in! Don't miss out!

Thong Huynh
vicsecretary@aseg.org.au

Western Australia

The WA Branch finished 2017 having provided a good number of technical and social events for our Members, including eight tech night presentations, a SEG Distinguished Lecturer presentation, the ASEG-PESA Golf Day, a SEG DISC EM Workshop, and the Christmas Party.

The number of events was down during 2017 due to a shortage of SEG Honorary and Distinguished Lecturers and SEG DISC and OzSTEP workshops, however, we are hoping to see this situation reversed in 2018 with more workshops and lectures on offer.

The Annual General Meeting and Christmas Party was held in December 2017, with all statutory positions contested. Effective January 2018, the following people were elected to statutory positions:

- Heather Tompkins – President
- Matt Owers – Secretary
- Matthew Cooper – Treasurer

In 2017 the WA Branch received a strong level of sponsorship support for our Tech

Night events. We would like to thank our annual sponsors: Platinum Sponsor; Globe Claritas, Gold Sponsors; Teck, HiSeis, Southern Geoscience, Western Geco, Geosoft, First Quantum, Resource Potentials, GPX Surveys, and NRG, and Silver Sponsors; Explore Geo, Atlas, CGG and NGI, as well as a private donor who made a contribution in memory of Marion Rose, a pioneering woman in geophysics who sadly left this world too soon.

Thanks to the generosity of all of our sponsors we have been able to bring Members a wide variety of free technical events throughout 2017. We look forward to maintaining strong relationships with our sponsors in 2018, and would welcome any new sponsors.

The calendar for 2018 is starting to be populated, including SEG Honorary Lecturer **Mazin Farouki** presenting on dense sampling in marine seismic in May. If you have any suggestions for presenters for 2018 please email either the WA Branch President or Secretary. The next ASEG Conference will be in Sydney in February, now a combined conference with PESA and AIG; the AEGC 2018. The program has now been released for this conference and it is looking like another excellent event!

I would like to take this opportunity to thank the WA Branch Committee and event volunteers who work tirelessly to bring you our diverse range of technical and social programs; specifically **Brett Adams, Brett Harris, Prue Leeming, Lianping Zhang, Carolina Pimentel, Emanuelle Frery, Cameron Adams, Shane Mule, Amir Hashempour Charkhi, Tim Dean, Andrew Fitzpatrick**, our outgoing Secretary **David Farquhar-Smith**, and our Treasurer **Heather Tompkins**. The activities of the Society would not be possible without these people!

Kathlene Oliver (outgoing President)
wapresident@aseg.org.au

ASEG national calendar: technical meetings, courses and events

Date	Branch	Event	Presenter	Time	Venue
18 Feb	National	YPN Presentation skills workshop	Doug Knight	0900–1600	TBA, Sydney
18–21 Feb	National	AEGC 2018	Various		International Convention Centre, Sydney
06 Feb	QLD	Tech night	Sylvia Michael	TBA	XXXX Brewery, Cnr Black Street and Patten Street, Milton, Brisbane
Mar	SA-NT	AGM	TBA	1730	Coopers Alehouse, Hurtle Square, Adelaide
15 Mar	ACT	AGM	Simon van der Wielen	TBA	Sir Harold Raggatt Theatre, Geoscience Australia, Symonston, Canberra
Apr	ACT	SEG HL	Mazin Farouki	TBA	Sir Harold Raggatt Theatre, Geoscience Australia, Symonston, Canberra
5–6 Apr	ACT	SEG workshop	Ilya Tsvankin	TBA	Sir Harold Raggatt Theatre, Geoscience Australia, Symonston, Canberra
18 Apr	ACT	ASEG AGM	TBA	1800	Sir Harold Raggatt Theatre, Geoscience Australia, Symonston, Canberra
May	WA	SEG HL	Mazin Farouki	TBA	TBA

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

Notice of Annual General Meeting (AGM)

The 2018 AGM of the Australian Society of Exploration Geophysicists (ASEG) will be held at Geoscience Australia in Canberra on 18 April. The meeting will be hosted by the ACT Branch. Details to be supplied via email. Drinks will be available from 6:00 pm and the meeting will begin at 6:30 pm.

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

Invitation for candidates for the Federal Executive

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

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

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. Marina Costelloe was elected as President-Elect in 2017 and as such will stand for the position of President.

The following officers 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.

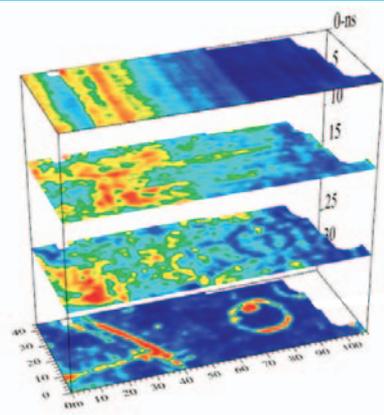
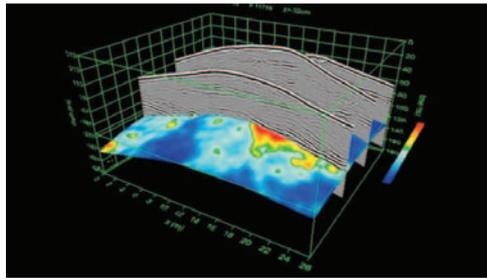
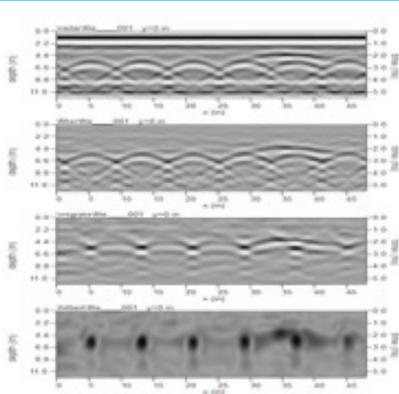
These officers are appointed by the Federal Executive from the volunteers wishing to serve the Society.

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
PO Box 576
Crows Nest
NSW, 1585
Tel: (02) 9431 8622
Fax: (02) 9431 8677
Email: fedsec@aseg.org.au

Nominations must be received via post, fax or email no later than COB Tuesday 7 March 2018. Positions for which there are multiple nominations will then be determined by ballot of Members and results declared at the Annual General Meeting.

Proxy forms and further details of the meeting will be sent to Members prior to the meeting by email and made available to Members on the Society’s website.



GPR-SLICE

**SOFTWARE FOR PROCESSING, DISPLAYING,
AND INTERPRETING GROUND-PENETRATING RADAR DATA**

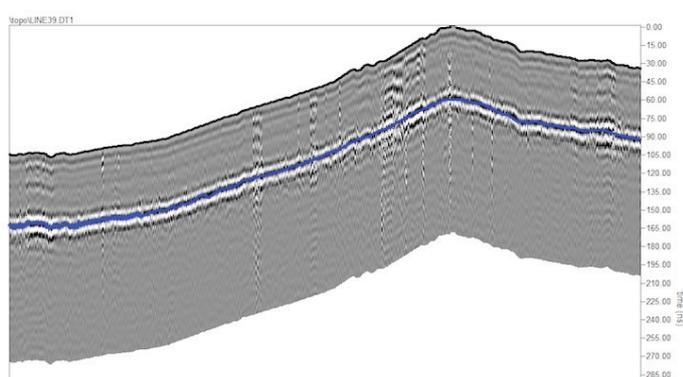
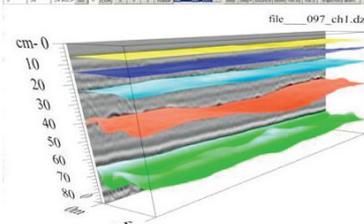
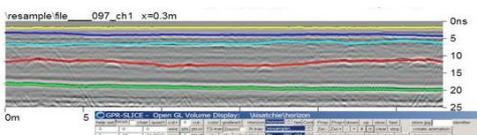
Compatible with all GPR systems and all navigation methods
(survey grids, GPS, total station, etc.).

Software licence includes support and access to updates.

The horizon detection system is ideal for mapping, visualising, and measuring
soil and rock layers - along with borehole data - in both 2D and 3D.

Extract layer thickness and volume measurements or create fence diagrams
within the software.

30 DAY TRIAL AVAILABLE



EXCLUSIVE DISCOUNT FOR ASEG MEMBERS

Use coupon code "ASEG2018" when you purchase through our website

www.gpr-slice.com.au

or email david.hunter@huntergeophysics.com