

I'll start this edition's President's Piece with an acknowledgement to Peter Elliott. As you know, Pete was tragically killed when his survey plane crashed in Kalimantan in August. The society has lost a great contributor and the geophysics business has lost another colourful character. Listening to Pete's family at his funeral it was driven home to me that for a little bloke he packed a lot into his life. He symbolised the old adage, 'If you are looking for someone to do a job for you, look for someone who is busy'.

The new website is still not with us and unfortunately, probably won't be by the time you receive this. Carina is pushing the developer to have it ready in time for dues renewal process otherwise we may have to defer the launch until the bulk of the online dues payments are completed.

Talking of dues, the Fed Ex have finally bitten the digital bullet and when you renew your subscription this year you will have the option to receive a paper copy of Exploration Geophysics for a little extra cost. Alternatively you can pay less than you did last year and have digital access only. We have decided that until we can resolve a way of protecting advertising revenue that Preview will be mailed to all Australian members, but because of the high postage costs, overseas members will have the option to pay extra to receive it or not and pay the same as a local. We have also decided to charge late payers a fee to help cover the cost and wasted time the secretariat and state committees spend each year chasing tardy members. The good news in all this is that if you opt for digital only journal access and pay early your fees will be less than last year. If you live overseas and take the full digital only option you'll be able to shout the bar but wait until I'm around to do it!

At the Brisbane Conference earlier this year the local organising committee softened the Fed Ex up for a reduced financial return from the conference. The society relies heavily on the conferences for its running and the projected results from Brisbane were disappointing and would have seen us spending more than we earned for 3 years in a row. In the long term that would compromise the service we are able to provide to members and the amount we are able to give the Research Foundation. I'm delighted to say that the Brisbane committee under promised and over delivered and have returned the sort of surplus we have come to expect from our conferences. Combined with our share of the surplus from the very successful IGC, also in Brisbane, we will return to the black this year, which is a great relief for all of us on the Fed Ex, particularly our treasurer Reece Foster who on hearing the news announced he was going to Las Vegas for a honeymoon. I'm not implying that there is a connection - yet! Congratulations to the Brisbane committee for delivering in a difficult environment.

That provides a cheap segue for me to mention the SEG convention in Las Vegas scheduled for November. For those in oil there will as always be plenty to do and for those of us in minerals, Mark Shore and the Mining and Geothermal Committee of the SEG have put together a solid programme of talks, workshops, social events and excursions.

Back on this side of the Pacific the Melbourne (pronounced Mel-bin for any of you overseas people thinking of coming and wanting to ensure you have the correct pronunciation) organising committee are moving faster than a warming glacier to bring the next ASEG conference to us. The dates are set for

11-14 August 2013; arinex, the same group involved with Brisbane (pronounced similarly, Bris-bin), have been appointed the professional conference organiser (PCO) and PESA have agreed to co-host the event. Look out for progress updates in future issues of Preview.

As forecast in the last edition, the UNCOVER working group have released their vision for exploration in Australia. I encourage you to download a copy from the Australian Academy of Science's website: http://www.science.org.au/ policy/uncover.html/. The vision lays out what we need in order to make the next round of major discoveries in Australia. What it does not do is suggest how these needs will be achieved. This is the next step and the working group is seeking help from people like us to shape the future programme and provide practical input on how the vision might become a reality. The ASEG will do this in collaboration with other geoscientific bodies to try and focus research where it is needed.



Kim Frankcombe kfrankcombe@iinet.net.au

### **ASEG News**

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# The ASEG Secretariat

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# New ASEG website coming soon... www.aseg.org.au

The ASEG Website Committee has been working really hard over the past 12 months to deliver you a new website that will have all of the bells and whistles of our modern age.

Development is in the final stages and we will see the new website launched in stages commencing late October. Hopefully the new website will be up and running by the time this hard copy of Preview has reached your desk.

Contact the ASEG Webmaster, Carina Kemp, for more information. Email: kemp.carina@gmail.com

# New members

The ASEG extends a warm welcome to 23 new individual members and two new corporate members to the Society (see Table). These memberships were approved at the Federal Executive meetings held in July and August 2012.

Name	Organisation	State/Country	Member grade
Cameron James Adams	Cameco Australia Exploration	WA	Active
Chukwudi Uba Anyanwu	Curtin University	WA	Student
Trent Alan Bowman		NSW	Active
Natasha Bysterveld	University of Adelaide	SA	Student
Daniel Robin Eden	Mira Geoscience	WA	Active
Rommy Angela Fisher	University of Adelaide	SA	Student
Karunakar Gandarapu	Hindustan Zinc Limited	India	Active
Josephine Laura Goonan	Adelaide University	SA	Student
John Mark Graham	Macquarie University	NSW	Student
Aaron John Hollingsworth	Curtin University	WA	Student
Kirsti Karlsson	Geopublishing Ltd	UK	Corporate
Manish Kumar	Rio Tinto	South Africa	Active
Sherwyn Lye	Macquarie University	NSW	Student
John Mitchell	Lightning Nickel	WA	Active
Nathan Taovasi Mosusu	Mineral Resources Authority	PNG	Associate
John Paul Mubita	Curtin University	WA	Student
Austin Oyinkuru Oki	Curtin University	WA	Student
Diana Plavsa	University of Adelaide	SA	Student
Augustinho Rigoti		Brazil	Retired
Tatiana Isabel Rodriguez	Curtin University of Western Australia	WA	Active
Alistair John Stanley	Total Depth Pty Ltd	WA	Active
Timothy Vale	University of South Australia	SA	Student
Liz Winn	Gold and Copper Resources	NSW	Corporate
Rachael Louise Wood	Curtin University	WA	Student
Victor Ziolkowski	GeoEnergy Consultants	QLD	Active



# **UPCOMING EVENT**

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### November 7<sup>th</sup>, 2012

City West Function Centre 45 Plaistowe Mews, West Perth, WA

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- What are we measuring?
- A review of AEM systems
- Data visualisation and modelling
- Minerals case studies: nickel, base metals, iron ore, manganese
- Near-surface, groundwater and regional mapping case studies
- Future developments

# **REGISTRATION RATES\***

ASEG and AIG members \$180 Non-members \$240

Students \$25

WHEN & WHERE

\* Includes GST, morning & afternoon teas, lunch and sundowner

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# Peter John Elliott: 3 September 1954 – 24 August 2012



It is with great sadness that I pass on to you news of Peter's death as a result of an aircraft accident in Kalimantan on Friday 24 August 2012.

Peter was actively involved in the ASEG and will be known to most of you. He served at State Branch level in Victoria (founding Secretary in 1977) and Western Australia (Treasurer 1981 and President 1982) before moving to Adelaide and joining the Federal Executive as Business Manager in 1984 when the Executive started its move away from Sydney. In 1985 he became Honorary Secretary and took on responsibility for publishing the newsletter, which at the time was printed and distributed from Sydney, at considerable cost to the society. Seeing the inefficiency in this, Peter decided to change the format of the newsletter to qualify for periodical status with Australia Post and moved the printing to Adelaide, thereby significantly reducing the cost of the Newsletter. In order to qualify for periodical status with Australia Post the publication had to have a name and thus in January 1986, Preview was born. Peter became the first editor of Preview and oversaw the production of the first four editions before becoming 1st Vice President of the Society, a position he held for 2 years until the executive moved to Perth. In 2004 after returning to Australia from

living in Indonesia Peter rejoined the Western Australian Branch committee and held a number of roles before signing up for a second term on the Federal Executive in 2007, becoming Federal President the following year. He contributed significantly to the international linkages of the ASEG through his professional contacts with government bodies and geophysics societies in Indonesia and India.

Peter not only gave his time, enthusiasm and energy to the society, he supported the ASEG through Corporate Membership, advertising and most recently, generation of promotional posters for display at overseas conferences where we were represented.

Peter graduated with a BSc(Hons) in Geology and Geophysics from the University of Melbourne (1976). He was later awarded a MSc from the University of Melbourne in 1984, and a PhD from Macquarie University in 1997. His PhD supervisor, Professor James Macnae, said of him:

Peter managed to complete a PhD in airborne electromagnetics at Macquarie University in his 'spare' time during the 1990s, with very little direct supervision from me. Despite all the full-time pressures of running a very successful business, Peter managed steady progress during the planning, research, data analysis and thesis writing, and easily met all the University deadlines. Peter had the ability, in business and research, to clearly grasp the essence of any problem, and find an efficient solution to it. Our interactions, before, during and after his part-time postgraduate student days were always a pleasure. Mining geophysics has lost an energetic and astute achiever.

He started his profession as a Cadet Geologist with the Geological Survey of Victoria in 1975 working as a geologist in Regional Mapping for a couple of years and then as a Geophysicist with the newly formed Geophysics Section in the Dept of Mines, Victoria (1977–1980). He later joined the Shell Company (Australia) Ltd in 1981 where he worked as a Regional Geophysicist with the Metals Division (1981–1987). During this time he worked out of Melbourne, Perth and Adelaide. In 1987 Peter left Shell and with Alex Copeland established Search Exploration Services. Peter then moved to Indonesia to set up his own exploration services company, Elliott Geophysics International. The company now has offices in four countries: Australia, Indonesia, India and Philippines. In addition to setting up a multi-national geophysical contracting firm, Peter gave courses in Electrical Geophysics at the University of Adelaide and published more than 20 scientific papers. He held three patents, based around his FlairTem technology, in Canada, USA and Australia.

Our thoughts are with his family as well as the families of the three other men killed in this tragic accident: the pilot Marshal Basyir, EGI geophysicist -Muhammad Rizal, and Air Force observer Captain Suyoto.

Peter was a caring and considerate person, always ready to assist family and friends in need. He enjoyed field work and it is perhaps of some small comfort that he died doing something he enjoyed, something we would all wish for.

He will be missed by the exploration community and his many friends and acquaintances.

Kim Frankcombe President of the Australian Society of Exploration Geophysicists



## **ASEG News**

## **Australian Capital Territory**

Eva Papp, currently a School visitor at ANU's Research School of Earth Sciences, gave a presentation on 3 July dealing with 'The parameter space of the Telegraph equations'. She provided a refresher on EM theory from Maxwell's equations to the Telegraph equations and outlined potentially new and novel applications to the evolution of the universe. Among the 15 or so attendees was a 7 year old who took great pleasure in reproducing Eva's equations and diagrams.

Lucy MacGregor of Rock Solid Images in the UK held her ASEG Distinguished Lecture in Canberra on 3 August – her penultimate stop on a whirlwind tour across Australia that culminated in a Keynote address at the International Geological Congress in Brisbane the following week.

In Canberra, approximately 40 ASEG and PESA members heard Lucy's excellent overview of why seismic doesn't tell you everything. The talk was a great illustration of the necessity for data integration and the clear benefits of utilising integrated data. The talk was also a valuable reminder that no single model

gives all the answers and those misfits between a model and constraining data tell you something. Lucy's talk was also well received by 50 enraptured attendees as a grand finale of the IGC Symposium, 'Putting the geo into geophysics – adding clout through better datasets and joint interpretation'. The ASEG Federal Executive is to be commended for financially backing a lecture tour by a geophysicist of this calibre – the benefits arising from the ASEG's support for Lucy's tour were clear to all.

Hot on the heels of the IGC, Professor Peter Styles came to Canberra on 15 August to present his course, 'Environmental Geophysics: everything you wanted (needed!) to know but were afraid to ask'. Feedback from the 28 attendees, some from interstate, was very positive. Peter was clearly and engaging presenter who covered a wide range of topics in a manner understandable and useful to all. Hopefully this new initiative from the EAGE will continue in the future.

As a further spin-off from the IGC, Judith Sippel from the Helmholtz Centre GFZ Potsdam (Germany) made a quick trip to Canberra on 27 August to speak on 'Data-based 3D models of sedimentary

basins'. Using an example from the Mackenzie-Beaufort Basin off northern Alaska, Judith showed how her group are building gravity-constrained 3D models that are subsequently used to model the temperature distribution in sedimentary basins.

The next event planned for the ACT is a joint-societies Quiz Night on 27 September organised by the local branches of PESA, ASEG, GSA, AusIMM and IAH. By the time this update is published, many ACT geoscientists will no doubt have vastly improved their cross-disciplinary knowledge of the geosciences!

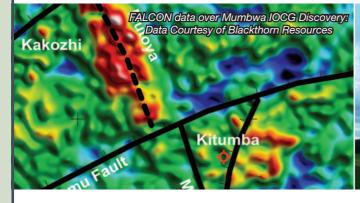
For updates on upcoming events, keep an eye out on the webpage or link yourself to the ASEG on LinkedIn.

Ron Hackney

#### **New South Wales**

In July we held our annual dinner. From memory, which I admit is a little fuzzy, it was held in a steakhouse; we ate lots of steak, drank lots of red, and discussed lots of geophysical and non-geophysical topics. We had a good turnout and a great time was had by all.

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10

In August, James Austin and Dean Hillan from CSIRO spoke on iron oxide copper gold deposits and new methods for modelling self-demagnetisation. James discussed some of the challenges associated with modelling magnetite-rich IOCGs, and in particular the relative importance of remanence and selfdemagnetisation. Dean Hillan then introduced and compared techniques available for making self-demagnetisation corrections in modelling. Dean outlined how new sub-volume modelling codes have been applied to a range of synthetic and real examples to demonstrate the effects of self-demagnetisation and multiple body interactions. The methods were demonstrated on a model of the Candelaria IOCG in Chile containing highly susceptible magnetite sheets.

An invitation to attend NSW Branch meetings is extended to interstate and international visitors who happen to be in town at that time. Meetings are held on the third Wednesday of each month from 5:30 pm at the Rugby Club in the Sydney CBD. Meeting notices, addresses and relevant contact details can be found at the NSW Branch website.

Mark Lackie

## South Australia/Northern Territory

On Friday 27 July, the ASEG alongside PESA and SPE held their annual quiz night. This event raises money for the Royal Flying Doctor Service, and we are pleased to announce that we raised \$2371.45! Thank you to everyone who got involved, and to those who got into the fancy dress spirit! Congratulations to the Smurfs who won first prize.

Lucy MacGregor from Rock Solid Images plc, Aberdeen, visited us on 31 July and presented 'Integrating well log, seismic and CSEM data for reservoir characterization'. This multi-discipline talk engaged the interest of both sides of the industry, and it was a full house.

On 16 August we welcomed Richard Smith from Laurentian University (Canada) who presented 'The SLUTH method for automatic interpretation of magnetic data: profile and grid implementations'. Richard's insights into this interpretation technique were very well received by the audience. Again, it was standing room only and the questions lasted long into the evening.

Our wine tasting evening was held on the 31 August and we are pleased to

announce the two winners for 2012: the Bremerton 2010 Selkirk Shiraz and the Second Nature 2012 Sauvignon Blanc. Look out for the order form in this edition of Preview and online.

We hold technical meetings monthly, usually on a Tuesday or Thursday, at the Coopers Alehouse in Adelaide beginning at 5:30 pm. New members and interested persons are always welcome. For further details, or if you are interested in presenting a talk to the local group, please contact Philip Heath (philip. heath@sa.gov.au). If you are a SA/NT member and are not receiving emails regarding events, please update your details through aseg@casm.com.au.

Philip Heath



A University of Adelaide student picks Richard Smith's brain on the fine details of the SLUTH technique.



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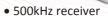
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## ASEG News



Lucy Macgregor lecturing on well log, seismic and CSEM data.



Congratulations to the Smurfs who took first place (and a lot of prizes) at the Annual Quiz night.

#### Victoria

On 2 August the ASEG Victorian Branch hosted the technical presentation 'Integrating well log, seismic, and CSEM data for reservoir characterisation' by Lucy Macgregor, SEG 2011 Honorary Lecturer, Europe, from Rock Solid Images. The presentation was well received with several local PESA members in attendance.

On 13 September Graeme Beardsmore from Hot Dry Rocks presented 'Geophysical applications of precise temperature measurements' covering recent developments in rapid earth temperature and heat-flow measurements. Graeme spoke to a select crowd with many questions fielded after the presentation.

On 24 October it is time again for the Annual Student Night! Come in and learn what the next generation of exploration geophysicists from Monash University

and RMIT are getting their teeth into for their Honours and PhD projects. This is one night when we expect to see many ASEG Victorian Branch members as the students put tremendous efforts into these presentations.

On 6 December we will be hosting the 2012 SEG Near Surface Honorary Lecturer Rick Miller from Kansas Geological Survey presenting 'Nearsurface seismic: more than a problem of

All technical meetings are held at the Kelvin Club in Melbourne's CBD. We look forward to seeing many ASEG Victorian Branch members at the coming meetings.

Asbjorn Norlund Christensen

#### Western Australia

On 30 July, SEG Europe Honorary Lecturer Lucy MacGregor gave a well-attended lecture entitled 'Integrating well log, seismic, and CSEM data for reservoir characterisation'. Our August Tech Night was an interesting presentation by GBGMaps of recent results from shallow environmental and archaeological surveys in the Perth area, including the Victoria Quay development site in the city. We hosted Professor Peter Styles from Keele University who gave his 1-day workshop on environmental geophysics, which is the current EAGE Education Tour. Our 12 September Tech Night was presented by Dr Tim Dean of WesternGeco Geosolutions, who gave a talk entitled 'The "low-down" on land seismic acquisition'.

The Curtin Exploration Geophysics Students Society (KEGS) has been active this year with current President Aldo de Rooster also sitting on the state committee. In conjunction with the ASEG WA Branch, they held a careers information O&A session at the university on 14 August. Four industry professionals, and ASEG members, from the minerals, petroleum and environmental sectors spoke to the students about their professional

experiences and what to expect. The annual Student Geoscience Night was also held on 21 August and was well attended by high school and university students from across the greater Perth region.

The year will continue to be busy with an evening presentation and a half-day workshop being presented by Geoscience Australia on the new National Australian Pool of Ocean Bottom Seismographs. Dr Nicholas Rawlinson will present at our 10 October Tech Night and the workshop will be held at Minerals House in East Perth on 11 October.

Our November Tech Night will be the annual Student Presentation Night where honours and postgraduate students from Curtin and UWA will present their research projects. We will also be presenting the inaugural ASEG WA Awards, applications for which have just closed.

We'll finish up the year with our AGM and Christmas party at Rigby's Bar in the CBD on 12 December. But before we put 2012 to bed completely, Rick Miller will be in town presenting his SEG Honorary Lecture on 'Near-surface seismics' at the earlier time of 3:30 pm on Friday 14 December at the usual City West venue.

The WA monthly Tech Nights are usually held on the second Wednesday of each month at the City West Function Centre, 45 Plaistowe Mews, West Perth starting at 5:30 pm.

Registrations for the 'A practical one-day workshop on airborne electromagnetics' are now being taken, so check out the advertisement in this edition of Preview for details or go to the WA Events page on the ASEG website. All WA events are now being posted on the ASEG website so keep a look out and follow the links for full event details, as well as to register online. You can also sign up to our mailing at http://eepurl.com/nleOD to receive email notifications of WA events and news.

Anne Tomlinson

12