

The ASEG: current state and goals for the future

Greetings from Dennis Cooke, your incoming ASEG President – and in this month's President's Piece I'd like to discuss my thoughts about goals and focus areas for the ASEG. These goals are related to the state of geophysics in Australia and the state of the Australian economy, so I will touch on those topics too.

Right now the Australian economy is doing relatively well. The world is struggling to recover from the WFC and crash of 2009, but Australia's economy is doing better than most of the rest of the world. Our economy's strengths are based largely on mineral and hydrocarbon resources and the (hopefully) growing need for those resources in China and India. In this sense we truly are the lucky country – especially now when most other developed economies are saddled with much more debt and lacking our growth prospects. And Australian geoscientists are important enablers of this resource boom as well as beneficiaries of it.

The purpose of the ASEG is to further the cause of geophysics and support our members in their practice of geophysics. A quick 'snap-shot' of the ASEG shows that we are doing a good job with hosting/organizing conventions, workshops, training courses and technical meetings. We are also doing an excellent job with our publications; *Preview* and *Exploration Geophysics*. We have a healthy cash balance of about \$1 million which largely comes from our conventions. In the future, I (and the other officers of the ASEG) want to spend/invest more of that cash balance on geophysics, geophysical education and our members.

Demographics, students and future geophysicists

The average age of geoscientists in the workforce and in the ASEG is increasing. One of the good things we can do with our healthy cash balance is to invest it in scholarships and field trips for students. I note that the SA/NT branch of the ASEG is currently doing both and I encourage other branches to make similar local investments in students.

Continuing education

Federally, the ASEG has started – and will continue – to spend more on continuing education for our membership. The best example of this is the Distinguished Instructor Short Course (DISC). The DISC program is organized by the SEG and EAGE – but due to cost constraints, they traditionally have restricted DISC courses to a single Australian session. The ASEG, however, has started and will continue to pay costs associated with bringing the DISC program to more Australian locations (limited only by the instructor's time constraints).

Mineral resources & potential fields technologies versus petroleum & seismic technologies

There are two major sub-groups within the exploration geophysics community: those using potential fields in the minerals industry and those using seismic methods in the hydrocarbon industry (and this over-simplified lumping ignores all those doing groundwater, environmental, engineering and academic geophysics). There is not a lot of technical and commercial overlap between these two communities and it is possible for our organization to favour one community at the expense of the other. Currently, Australia and the ASEG are the 'big dogs on the block' with respect to developing and deploying new potential fields technologies, while the US and the SEG dominate development of new seismic technologies. I'd like to see the ASEG increase its activity and membership amongst seismic geophysicists. This can only be done by offering more courses, workshops and technical talks that are relevant to seismic geophysicists.

Sister societies

The ASEG is doing a great job of engaging the Korean and Japanese geophysical societies and we currently publish a joint technical journal with them. Last year we signed an agreement of cooperation with the Chinese geophysical society. Relations between the ASEG and the SEG are good and

both societies would like to strengthen them. One concept under discussion is to make the ASEG's digital database accessible via the web as part of the SEG's digital database. Another sister society I would like to strengthen ties with is PESA. We currently organize some conferences and technical talks with PESA and I would like expand as part of an effort to bring more seismic/petroleum geophysicists into the ASEG.

ASEG membership dues

I suspect that many members would like to see our cash balance used to reduce our membership dues. Our current membership dues are set to cover the cost of printing and posting our journals – *Preview* and *Exploration Geophysics* – to each of you. It would not be sustainable to set our dues at a level below the printing and distribution costs, but what we are considering instead is to offer lower dues to those who wish to receive digital copies of our journals instead of the printed version.

So above is a brief description of my thoughts and goals for the ASEG. I am very interested in how our members think we should focus our activities. We are currently planning a speaking tour where I would visit ASEG branches and present a technical talk. Those technical meetings would also provide an opportunity for each local ASEG community to share their thoughts on where we should be going as an organization. I look forward to meeting all of you and discussing ASEG goals!



Dennis Cooke
Email: dennis.a.cooke@gmail.com

ASEG Federal Executive 2010–11

President and International Affairs:
Dennis Cooke
Tel: (08) 8338 7335
Email: dennis.a.cooke@gmail.com

President Elect: Kim Frankcombe
Tel: (08) 6201 7719
Email: kfrankcombe@iinet.net.au

Vice President Conferences: Andrea Rutley
Tel: 0438 599 644
Email: rutley@sylvanpark.com.au

Vice President Education: Koya Suto
Tel: (07) 3876 3848
Email: koya@terra-au.com

Immediate Past President and ASEG Research
Foundation: Phil Harman
Tel: (03) 9909 7633
Email: phil.harman@bigpond.com

Past President: Michael Asten
Tel: 0412 348 682
Email: michael.asten@sci.monash.edu.au

Secretary: David Denham, AM
Tel: (02) 6295 3014
Email: denham@webone.com.au

Treasurer: David Cockshell
Tel: (08) 8463 3233
Email: david.cockshell@sa.gov.au

Membership: Cameron Hamilton
Tel: (07) 3839 3490
Email: cameron@energeo.com.au

Publications: Phil Schmidt
Tel: (02) 9490 8873
Email: phil.schmidt@csiro.au

State Branch Representative: Reece Foster
Tel: (08) 9378 8023
Email: reece.foster@groundprobe.com

Webmaster: Carina Kemp
Tel: 0412 514 075
Email: c.kemp@geomole.com

ASEG History Committee: Barry Long
Email: blong@jafss.com

Conference Advisory Committee: Michael Hatch
Email: michael.hatch@adelaide.edu.au

Honours and Awards Committee: Andrew Mutton
Email: andrew.mutton@bigpond.com

Technical Standards Committee: David Robson
Email: david.robson@industry.nsw.gov.au

ASEG BRANCHES

ACT

President: Ron Hackney
Tel: (02) 6249 5861
Email: ron.hackney@ga.gov.au

Secretary: Marina Costelloe
Tel: (02) 6249 9347
Email: marina.costelloe@ga.gov.au

New South Wales

President: Dr Mark Lackie
Tel: (02) 9850 8377
Email: mlackie@els.mq.edu.au

Secretary: Dr Bin Guo
Tel: (02) 9024 8805
Email: bguo@srk.com.au

Queensland

President: Fiona Duncan
Tel: (07) 3024 7502
Email: fiona.duncan@bg-group.com

Secretary: Kate Godber
Tel: (07) 3010 8951
Email: kate.godber@groundprobe.com

South Australia & Northern Territory

President: Philip Heath
Tel: (08) 8463 3087
Email: philip.heath@sa.gov.au

Secretary: Michael Hatch
Tel: 0417 306 382
Email: michael.hatch@adelaide.edu.au

NT Representative: Jon Sumner
Tel: (08) 8999 3606
Email: jon.sumner@nt.gov.au

Tasmania

President: Michael Roach
Tel: (03) 6226 2474
Email: michael.roach@utas.edu.au

Victoria

President: Asbjorn Christensen
Tel: (03) 9593 1077
Email: asbjorn@intrepid-geophysics.com

Secretary: John Theodoridis
Tel: 0412 570 549
Email: jthe1402@bigpond.net.au

Western Australia

President: Riaan Mouton
Tel: 0488 500 859
Email: geosoft@orcon.net.nz

Secretary: CASM
Tel: (08) 9427 0838
Email: aseawa@casm.com.au

The ASEG Secretariat

Centre for Association Management (CASM)
36 Brisbane St, Perth, WA 6000
Tel: Ron Adams (08) 9427 0800
Fax: (08) 9427 0801
Email: asega@casm.com.au

eLearning from SEG

We have received a message from SEG that they have a growing number of eLearning resources available on their website that ASEG members should take advantage of. This is a great resource for continuing education and training available from the convenience of a home or work computer. It includes Kurt Marfurt's seismic attributes course, several past Distinguished Instructor

Short Courses, and over 30 IHRDC courses on a variety of topics. There are also other eLearning products and resources like the 2010 Technical Program DVD-ROM, past annual meeting recordings, and of course the popular Distinguished and Honorary Lecture recordings. All of these are listed at <http://seg.org/eLearning>.

Some of the items are available for a fee, others are free to SEG members, and others are free to anyone. Questions can be directed to eLearning@seg.org or +1 918 497 5526.

Koya Suto
Chairman, Education Committee

Australian Capital Territory

On 13 April, the ACT Branch hosted SEG Pacific South Honorary lecturer Richard Lane. The talk was held at the Research School of Earth Sciences at ANU, where members mingled over a light lunch before around 25 people heard about the philosophy underpinning the use of potential-field data to build 3D geological knowledge. Richard demonstrated new 3D modelling workflows using the Capel/Faust basins off eastern Australia as an example. He highlighted the need for streamlining of the interface between users, data and modelling tools and highlighted the immense opportunities arising in 3D potential-field modelling from increasing computational capability.

About a month later, on 11 May, the ACT Branch hosted Prof. John Bancroft (University of Calgary) for an ASEG Distinguished Lecture. John's presentation, held at Geoscience Australia, reminded everyone of the importance of getting the basics right when processing seismic data, stressed the independence of stacking and RMS velocities and demonstrated the problems induced by anisotropy. For the seismic processors in the room, the talk provided a useful reminder of the care required in processing, while the non-seismic people were given a useful reminder of the potential pitfalls in preparing high-resolution seismic data for interpretation.

The ACT branch commends the Federal Executive for instigating and supporting the ASEG Distinguished Lecturer concept – the opportunity to hear from eminent geophysicists who are visiting Australia, that otherwise may not travel widely across this vast continent, is certainly appreciated by members!

Ron Hackney

New South Wales

In March, Richard Lane, the SEG Pacific South Honorary Lecturer, gave a talk about building on 3D geological knowledge through gravity and magnetic modelling workflows at the regional through to the local scale. Richard discussed many aspects of potential field modelling and invoked much discussion and as a consequence many questions were asked. The discussion went long into the evening.

In April, Simon Williams from University of Sydney gave a talk on imaging

sedimentary basins and reconstructing their tectonic history using geophysical data. Simon spoke about how gravity and magnetic data are fundamental tools for mapping the extent and depth of sedimentary basins. Simon discussed the Tilt-Depth method and how it is utilized to estimate regional variations in basin depth. Simon then discussed how potential field data provide important constraints on the crustal structure at continental margins, allowing us to generate more robust models of the rifting between continents.

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.

The speaker for June will be Clive Foss from the CSIRO on 'Down-hole tensor magnetic gradiometry'.

Mark Lackie

Queensland

May will be a busy month for the Queensland Branch. We were lucky to have Professor John Bancroft visit Brisbane as a distinguished lecturer and present 'Concepts of High Resolution Seismic Imaging and Inversion'. Another meeting is also planned with Nick Sheard and John Donohue presenting an update on their NSW Iron Ore project.

The Queensland Branch is currently on the lookout for some presenters to fill the 2011 program. If you can help or have any suggestions, please contact Fiona Duncan (fiona.duncan@bg-group.com).

Fiona Duncan

South Australia/Northern Territory

The South Australian & Northern Territory branch has held several successful events over the last few months. On the 31st of March we held a barbecue at the University of Adelaide, encouraging students interested in studying Geology and Geophysics to meet ASEG members, and learn a little of what we do. Around 30 students signed up for the ASEG.

Shortly after – on 5 April – Dennis Cooke presented 'A short summary of the

North American shale gas industry'. The talk was very well received, and with the venue packed to capacity, it was standing room only.

On 5 May we welcomed Ian Roach and David Hutchinson from Geoscience Australia. They presented a talk entitled 'Acquisition, processing and interpretation of the Frome AEM survey'. Many university students attended the talk as well as consultants, university, government and industry geophysicists.

At the same event we announced the recipients of the inaugural SA/NT scholarships. This scholarship is awarded to two Honours geophysics students and is valued at \$2000 each. The photograph below shows the two recipients, Robert Lampe and Alison Langsford. They have agreed to present their Honours work at a technical night later this year.

The SA branch holds technical meetings monthly, usually on a Tuesday or Thursday night at the Coopers Alehouse beginning at 5:30 pm. New members and interested persons are always welcome. Please contact Philip Heath (heath@sa.gov.au) for further details. If you're an ASEG member and are not receiving emails please ensure your contact details are up to date by contacting aseg@casm.com.au.

Philip Heath

Victoria

On Wednesday 30 March the ASEG Victorian Branch hosted the Annual Student Night at the Kelvin Club. A select group of members enjoyed the presentations by graduate-level students from Monash University and University of Melbourne. Zara Dennis from the School of Geosciences, Monash University, presented 'Mapping the TEM Smoke-Ring in Anisotropic Ground'. Brenton Crawford from the School of Geosciences, Monash University, presented 'Modes of Deformation and Reactivation along a Major Proterozoic Shear Zone: Insights from Aeromagnetic Data'. This work is being partially funded by the ASEG Research Foundation. Ben Harrison from the School of Earth Science, University of Melbourne, presented 'Heat Flow Data in the Gippsland Basin'. In a very strong field of contenders the Annual Student Night prize for best presentation eventually went to Teagan Blaikie from the School of Geosciences, Monash University, for the presentation 'A Geophysical



From L to R: Michael Hatch (SA/NT secretary), Robert Lampe, Tania Dhu (SA/NT treasurer), Alison Langsford & Philip Heath (SA/NT President). Robert and Alison are receiving the inaugural SA/NT scholarships.

Investigation into the Subsurface Structure and Morphology of Maar Volcanoes within the Cainozoic Newer Volcanics Province of South Eastern Australia'. Well done, Teagan, and a big thank-you to all the presenters for some really interesting and varied presentations.

On Tuesday 24 May at the Kelvin Club (at 6:00 pm for 6:30 pm start), the ASEG Victorian Branch will be hosting the technical presentation 'Potential Field Searchlights' by Mark Dransfield, Chief Geophysicist & AGG Manager, Fugro Airborne Surveys.

On Wednesday 22 June, at the Kelvin Club (at 6:00 pm for 6:30 pm start), Tim Rawling will present 'Development of Complex Basin Management Systems from 3D Geology and Geophysics'.

We are looking forward to seeing many ASEG Victorian branch members at the technical meetings this autumn.

Ashjorn Christensen

WHEN CAPABILITY COUNTS...



FUGRO GROUND GEOPHYSICS

- GPS Gravity
- EM (surface & BH)
- IP (2D & 3D)
- Magnetics
- NMR
- Radiometrics
- Seismic & GPR
- CSAMT / MT

...COUNT ON FUGRO

Australia - Peru - Brazil - India

Global - Experienced - Safe

Fugro Ground Geophysics Pty Ltd
Tel: +61 (8) 9273 6400
Email: perthmail@fugroground.com
www.fugroground.com



Treasurer's Annual Report for 2011 AGM

Audited financial Statements for the year ended 31 December 2010 for the Australian Society of Exploration Geophysicists are presented.

The financial statements refer to the consolidated funds held by the society as a whole, including the State branches. An audited version of the profit and loss statement and end of year balance sheet will be placed on the Society's web site.

The Society's funds are used to promote, throughout Australia, the science and profession of geophysics. In 2010 this was achieved by:

- funding the publications: *Exploration Geophysics*, *Preview* and the *Membership Directory*;
- supporting the functions of State Branches;
- funding the national administration of the Society;
- funding continuing education programs;
- provision of loans and grants for conventions;
- provision of subsidies for student members; and

- support for the ASEG Research Foundation.

The Income Statement for the year shows a net surplus of \$149 466. The end of year balance shows a Total Equity of \$1 110 727 as of 31 December 2010, compared to \$961 260 to the end of 2009. The result is a vast improvement over the budgeted surplus of \$37 200, largely due to the record success of the 2010 Conference and Exhibition.

The Society's revenue source continues to be derived from:

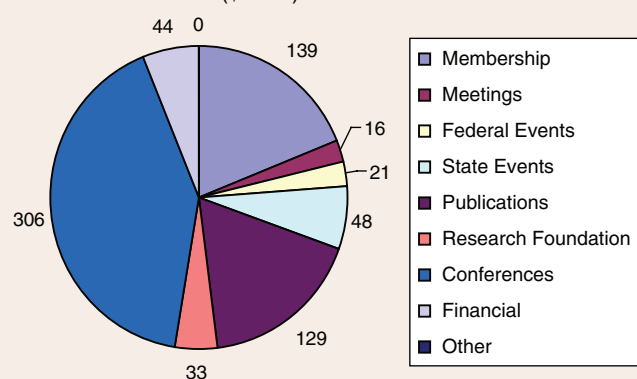
- conferences – \$306 000 (204% of budget);
- membership subscriptions – \$139 000 (100% of budget);
- publications advertising – \$129 000 (88% of budget);
- events and sponsorship – \$85 000 (111% of budget);
- interest from accumulated investments – \$44 000 (100% of budget); and
- donations to the Research Foundation – \$33 000 (144% of budget).

Overall the actual income for the year was 127% of the budget figure. The increase in membership is also very pleasing along with the much improved contributions to the Research Foundation. Income from publishing advertising was lower than budgeted. Approximately 50% of cash on hand was transferred to a term deposit during the year to take advantage of higher interest rates. However, the best rate required a term of 12 months which means that the account will mature in May 2011. Even so, this interest has been accrued into the 2010 books.

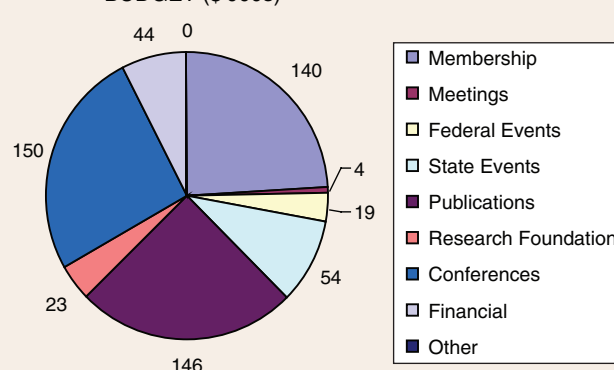
The major expenses for the Society include:

- publications – \$243 000 (104% of budget);
- secretariat fees – \$72 000 (94% of budget);
- events – \$157 000 (137% of budget);
- financial – \$31 000 (184% of budget); and
- conferences – \$28 000 (112% of budget).

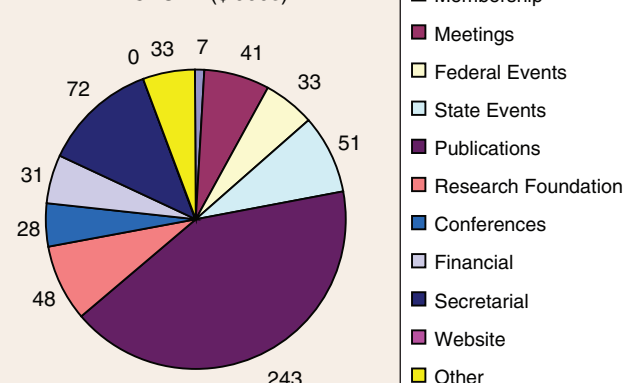
2010 INCOME
ACTUAL (\$'000s)



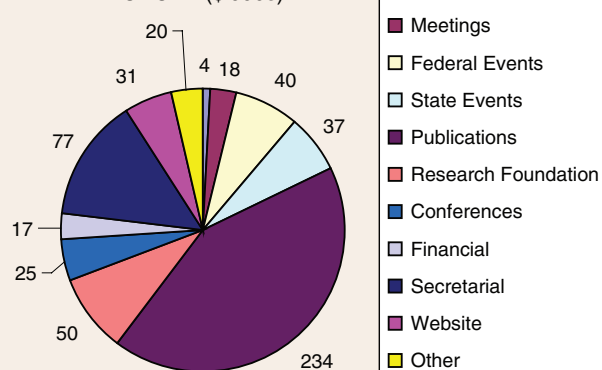
2010 INCOME
BUDGET (\$'000s)



2010 EXPENSES
ACTUAL (\$'000s)



2010 EXPENSES
BUDGET (\$'000s)



The overall expenditure was 106% of the budgeted figure. State branch meeting and event costs were higher than budgeted but most other budget lines were generally close to budget. There was a contingency of \$31 000 in the 2010 budget for web costs. However, these funds were not called upon, all web functions being undertaken by our webmaster on a voluntary basis.

The restructure of the 2009 budget, Chart of Accounts and cashflow was followed again in 2010 which facilitated a better reconciliation of portfolio allocation and reporting on a monthly basis.

Modelling the financial position of the society for the next four years, considering potential future conferences indicated that another ASEG conference in early 2012 would be prudent

financially, at least. There would be no conference in 2011 and the next major conference being the International Geological Congress in late 2012 where the ASEG could not expect revenue to the same level as would be expected from ASEG Conferences.

Similar financial modelling was done to consider a potential publication on aeromagnetic interpretation, by David Isles and Leigh Rankin. This modelling incorporates SEG's involvement in distribution of the publication.

A major change to the timing and amount of payments to the Research Foundation has been implemented in 2010 to provide more clarity and certainty to the management of the Foundation.

The Society is in a very sound financial position going into 2011. The equity held

will cover the uncertainty of income from future conferences, particularly in 2011 where there is no conference to provide a revenue stream to the society.



C. David Cockshell
Honorary Treasurer
12 April 2011

Outgoing President's Report to the AGM: 12 April 2011

Some of Phil Harman's report to the AGM effectively appeared in his President's Piece in the last issue of Preview (Issue 151, pp. 4–5). So the following is an edited version of his report to the AGM to avoid duplication.

Against a buoyant resources sector, the past year has been a good one for the ASEG. For me it seems to have flown past and I feel privileged to have had the opportunity, even if it did involve dealing with many of my crusty old mates.

Key events during my term as President were the very successful Sydney conference and an agreement with the Society of Exploration Geophysicists of Japan, and the Korean Geophysical Society, to jointly publish our main technical journal, *Exploration Geophysics*. This year Fedex agreed to fund the publishing of a book on the interpretation of aeromagnetism by Dave Isles and Leigh Rankin. Dave and Leigh have been conducting training courses on the subject now for many years and we believe that this will be a seminal publication. I am also pleased to say that the SEG has agreed to co-brand and market the book with the ASEG.

Along with Mike Astén, I continued to represent the ASEG on the Australian Geological Council (AGC). Their principal current activity is as the legal entity behind the forthcoming

International Geological Congress to be held in Brisbane in late 2012. The ASEG is a co-sponsor and contributor to the IGC, however we shelved plans to try to run an ASEG conference at the same time as we felt that there would be little real technical overlap for the majority of our members. To this end we decided to hold a separate ASEG conference in Brisbane in February 2012. Our conferences are critical to the well being of the Society and we felt that we would earn very little for the effort needed to be a full part of the IGC. Nevertheless, we plan to help organise sessions and symposia to cover geophysical topics of interest to the broader geological community.

In March 2011 the ASEG co-sponsored the first Western Australian Geothermal Exploration Symposium. It is hoped that this will be the first of a regular event. I attended and gave an address at the opening session. I came away with the impression that there are lots of small gains to be made in a domestic sense, in a similar way to the photovoltaic collectors on rooves, but baseline power generation has a long way and lots of money to go.

The Fedex was very capably represented at the SEG meeting in October 2010 by Koya Suto and by Dennis Cooke. There have been many ructions in the SEG over the past year or so in relation to the

legality of their constitution and what to do about it. I guess we have all looked on, incredulous at how resistant some of the SEG membership is to the winds of change.

One issue that cropped up this year has been the operational safety of ground IP and EM crews. This was raised by the NSW Mines Inspectorate. Dave Robson and Steve Collins agreed to coordinate follow-up which will hopefully lead to acceptable guidelines and a code of practice. Last I heard some slow progress was being made.

This is a good time to raise the topic of CASM. I know that several years ago there was a suggestion that we should have a fulltime CEO. In principle there is nothing wrong with this idea however as yet, we really aren't big enough to justify the cost including office space and secretarial help etc. Having said that, CASM is an excellent alternative solution and good value for money. This year I have made a small attempt to give them more administrative work which is why we asked them to design and spec out the new website. This is the front door of the ASEG and needs a fulltime keeper. It is also a vital tool for the administration of our society.

A recurring theme of my ramblings this year has been about the 'geo' in geophysics. More and more as we look under cover a 'target' is not enough...

there's too many of them. If we are to be successful they need to be in a geological context. This has been the key component of all of the 'undercover' discovery case histories that I am aware of. This is also the area of real creative challenge. The importance of this to the industry is demonstrated by the research issues being addressed by the latest exploration CRC, 'Deep Exploration Technology'. It is not only targeting the development of better and more efficient drilling technology, but also the more efficient imaging and interpretation of geology under cover.

I would like to pass on my personal thanks to everyone who has assisted me, in particular the members of the Federal

Executive along with branch and other specialist committees and in particular Ron Adams and his team at CASM.

I would like to acknowledge the enthusiastic contributions of the younger members of the Fedex, including Cameron Hamilton, Reece Foster and Andrea Rutley. Their enthusiasm has been inspiring to me and they give the Fedex a different perspective. I also acknowledge their employers who allow them to make valuable time available for the ASEG.

Finally, I wish the incoming president Dennis Cooke and President Elect, Kim Frankcombe, all the best for the coming year and look forward to working with them on the next Fedex.



*Phil Harman
Immediate Past President
phil.harman@bigpond.com*



Outgoing President, Phil Harman (right), hands over the ceremonial gavel to new ASEG President, Dennis Cooke (photo courtesy of David Denham).



President Elect, Kim Frankcombe (left), gets the good oil on all matters financial from Treasurer, Dave Cockshell (photo courtesy of Koya Suto).

New President-Elect – Kim Frankcombe

I joined the ASEG in 1978 while still a student at the University of Tasmania. As was common at the time, I graduated with a double major in geology and geophysics which lead to a job as a geologist with DeBeers working mostly in WA. After a couple of years, the 'boys own' adventure started to wear off and I decided to get a job using both sides of my brain, looking for uranium with Mobil. Unfortunately, or maybe in hindsight not so unfortunately, in the mid-80s Mobil, along with the other oil companies decided to pull out of mineral exploration. ASUS10/lb uranium price helped their decision. This led to a 6-year stint consulting which included almost all geophysical techniques and

a wide range of clients. These ranged from pushing electrodes down toilets in order to find cracks in sewer pipes under houses in Adelaide using a misse-a-lamasse variant I had developed, through conventional mineral exploration to collecting and processing up hole refraction statics for oil exploration. There wasn't a lot of money around for software and the internet was still a toy for US academics and the military so I taught myself to program and coded up processing and modelling routines for all the methods I used. As well as meaning that any job was processable, this had the added benefit that in order to know what to write I was forced to have a reasonable understanding of the physics

behind each method. Each office move required a bigger truck to accommodate the ever expanding library.

In 1989 I moved to Perth to join Pat Cunneen's vehicle for total world domination, World Geoscience, to manage their ground division and later, the Australian airborne EM arm. Later, when Normandy were building their geophysics division in the early 90s, I jumped ship to work for an exploration company again. The next 6 years were spent working on some magnificent deposits and gold fields including The Golden Mile, Scuddles and the Tennant Creek Goldfield as well as working with the exploration teams and the new

Continued on p. 40

New members

The ASEG extends a warm welcome to 38 new members to the Society (see table). These memberships were approved at the Federal Executive meetings held on 31 March and 5 May 2011.

We would also like to welcome *Instrumentation GDD Inc.* as a new corporate member of the ASEG. Since 1976, Instrumentation GDD Inc. has manufactured, sold, rented and developed a range of innovative instruments for geophysics and mining. In 2009, the GDD team developed a new, portable, innovative tool to measure the electrical properties (IP) of core samples called SCIP Tester (Sample Core IP Tester). For induced polarization or resistivity surveys, there is a new 32 channel IP Receiver with the proven 1800W-3600W-5000W/2400V IP Transmitter. Two 5000W IP Transmitters can be linked together and transmit up to 10000W/4800V. GDD's handheld MPP probe logs DDH cores instantaneously and records the conductivity and the magnetic susceptibility. Airborne and ground EM conductors can be sampled using the Beep Mat with GPS to detect and localize sulphides, gossans or floats down to three metres below the surface. To increase grades in a mine, the SSW-EM-Probe can be used to log blast holes to outline the limits of ore before selectively loading explosives.

Contact details are:
Instrumentation GDD Inc.
860 Boul. de la Chaudière, Suite 200
Québec, QC, Canada
G1X 4B7
Ph.: +1 418-877-4249
Fax: +1 418-877-4054
Email: gdd@gddinstrumentation.com
Website: www.gddinstrumentation.com

Coffey Geotechnics joins ASEG Student Sponsorship program

The ASEG extends a warm welcome to Coffey Geotechnics as they join Rio Tinto and Origin Energy as corporate sponsors of the ASEG Student Sponsorship Program.

This program aims to secure the future of our profession by offering subsidised

Name	Organisation	State	Member grade
Mark James Armstrong	Teck Australia	WA	Active
Lauren Nicole Burraston	The Australian National University	ACT	Student
Natasha Bysterveld	University of Adelaide	SA	Student
Marco Daniel Criado	University of Adelaide	SA	Student
Bryony Beatrice Plaxy Crowe	University of Adelaide	SA	Student
James Matthew Deeks	University of Western Australia	WA	Student
Matthew Richard Fargher	University of Adelaide	SA	Student
Holly Marie Feltus	University of Adelaide	SA	Student
Rommy Angela Fisher	University of Adelaide	SA	Student
Krestabelle Futalan	University of Adelaide	SA	Student
Lisa Jade Gavin	University of Western Australia	WA	Student
Scott Gerbhardt	University of Adelaide	SA	Student
Matthew Kenneth Goldman	University of Adelaide	SA	Student
Eun-Jung Holden	University of Western Australia	WA	Active
Isaac John Kell-Duivestein	University of Adelaide	SA	Student
Joel Kirk	University of Adelaide	SA	Student
Nicholas James Lambos	University of Adelaide	SA	Student
Jacob Kiat Beng Low	University of Adelaide	SA	Associate
Anna Maddocks	University of Adelaide	SA	Student
Hamish Robert McKay	University of Sydney	NSW	Student
Todd Michael Mojesky	CGGVeritas	WA	Active
Megan Jennifer Nightingale	Arrow Energy Pty Ltd	QLD	Active
Bronwyn Cherie O'Keefe	QGC	QLD	Associate
Tony Parks	Macquarie University	NSW	Student
Nathaneal Pittaway	University of Adelaide	SA	Student
Sean Michael Plunkett	Nautilus Minerals	QLD	Active
Anya Marie Reading	University of Tasmania	TAS	Active
Ian Charles Roach	Geoscience Australia	ACT	Active
Claire Robertson	Water Corporation	WA	Active
Seda Rouxel	CGGVeritas	VIC	Associate
Jeremy Ryan Schulz	University of Adelaide	SA	Student
Katherine Lee Silversides	University of Sydney	NSW	Student
Frank Fotios Stamoulis	University of Adelaide	SA	Student
Bai Chun Sun	Curtin University of Technology	WA	Student
Jasmine Tearle	University of Adelaide	SA	Student
Matthew Wheeler-Carver	Fugro	WA	Active
Sam White	University of Adelaide	SA	Student
Zhe Zhou	Santos	SA	Active

ASEG memberships to students while they study. Currently the program caters for career interests in Minerals or Oil & Gas geophysics (subsidised by Rio Tinto and Origin Energy respectively). With the addition of Coffey Geotechnics, we can

now include the category of Engineering/Environmental geophysics.

Cameron Hamilton
Membership Committee Chairman