



## 'Forward Together' should be EAGE's mission

EAGE president  
Len Srnka.



**Len Srnka, president, EAGE, writes:** It is a great honour and privilege for me to be able to serve as your president for 2012-13. Having just experienced our excellent 2012 Annual Conference and Exhibition in Copenhagen, again held jointly with SPE-EUROPEC, I can say confidently that EAGE is poised to continue the success it has achieved in recent years. I anticipate continued growth in our membership, and new opportunities arising for conferences, workshops, and publications. The skills, dedication, and hard work by many people are responsible for this success, including the permanent office staffs in Houten, Dubai, Kuala Lumpur, and Moscow, and the many volunteers who serve the As-

sociation on committees, as Board advisors, and on the Board itself.

My vision for the Association builds on its substantial current strengths, and can be summarized in two words: Forward Together. These words embrace the established core values of EAGE as a professional geoscience and engineering society, and also provide an optimistic tone for the opportunities that lie ahead in these challenging times. I see Forward meaning to advance our technical disciplines, our professional development, and our technical support for societal needs; and Together as increasing integration of geoscience and engineering disciplines, cooperation and coordination with our sister societies, and participation and diversity within our Association. Above all, EAGE is, and must remain, an association of, by, and for its members.

The strategy that implements this vision largely continues what was approved by the Board in 2009, in four main focus areas: 1) Use our Annual Conferences, workshops, and publications to enhance existing and promote emerging technical areas, including both natural resource and environmental topics; 2) Grow our educational activities in their scope, demographics, and geographical reach, and promote public awareness of the importance of geoscience and engineering to society; 3) Seek cooperation and coordination with our sister societies for the mutual benefit of members, their host organizations, and technical disciplines; and 4) Increase participation and diversity within our Association, especially for women and young professionals. As an example in this last focus area, an initiative is underway by the Local Advisory Committee for London 2013 to enhance the presence and participation of our women members and to seek better ways to support their careers.

## PGCE 2013 is the region's premier event and intends to stay that way!

Nearly 100 guests from more than 40 oil and gas related companies attended the launch party in July for the 36<sup>th</sup> Petroleum Geoscience Conference & Exhibition (PGCE) due to be held next year in Kuala Lumpur. The Kuala Lumpur Convention Centre will again host PGCE, from 18–19 March 2013 with the theme 'Innovative Geoscience: Securing Energy Needs'. PGCE is a collaborative effort between Malaysia's national petroleum company PETRONAS and the Geological Society of Malaysia (GSM), and is managed by EAGE.

Though it has grown considerably PGCE intends to keep with its mission of being an event for geoscientists and their companies to share their technical work and experience. Effendy Cheng Abdullah, patron of

Read more on p. 2 ▶

## Trivia Question

The summit of Mount Everest is composed of:

- A - Basalt
- B - Gneiss
- C - Limestone
- D - Granite

Answer on p. 12

Read more on p. 2 ▶

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# 'Forward Together' should be EAGE's mission

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Although EAGE already has a strong focus on the different regions, in 2013 it is important to further expand the relationship with our global membership. I am very proud to say that the regional offices are doing very well, organizing more events every year. As an example, EAGE's involvement in the Petroleum Geoscience Conference & Exhibition (PGCE) 2012, which was held in Kuala Lumpur, reflects the Board's commitment to engage with our Association's members and other geosciences and engineering professionals on a regional basis. After a successful collaboration in 2012, EAGE will again be involved in next year's edition, PGCE 2013. As a second example, we held a very successful electromagnetics in exploration workshop in Singapore this April, measured by the high quality of the technical presentations as well as by the large number of participants. A full review of the Singapore workshop was published in the July 2012 issue of *First Break*.

My predecessor, past-president John Underhill, was successful in putting new long-term strategic MOUs in place with our sister societies AAPG and SEG, as well as building on our existing links with SPE. Several new initiatives are in place for events in 2013 as a result. We plan to hold a joint workshop with the AAPG in Europe on a highly topical subject area, and to hold a joint forum with the SEG on a topic in geophysical fundamentals. During the past year, the SEG invited EAGE to participate in their Oil and Gas Reserves Committee that seeks to incorporate geophysical methods in reserves estimation, and that participation has begun through our Oil and Gas Geoscience Division. As a member of SEG and AAPG as well as EAGE, I share the Board's and many members' desires to strengthen such

cooperation, whilst ensuring equitable financial and organizational impacts.

I am mindful of the fact that I am the first EAGE President who is based in the USA, although I have deep European roots. My location brings with it both the challenge of working effectively with my fellow Board members and the Head Office staff in Houten, but also the opportunity to continue strengthening the Association as a global geoscience and engineering organization from a trans-Atlantic perspective. I do feel comforted in my geographical challenge in that our vice president, Gladys Gonzalez, and our newly elected Education Officer, Paul Sava, are also based in the USA, so we will work this perspective together to help make EAGE an even stronger Association than it currently is.

## PGCE 2013 is the region's premier event and intends to stay that way!

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PGCE 2013, said today's challenges in E&P call for a more creative approach to geoscience methods. He also noted that 'geoscience is the heartbeat of the industry and without geoscience, there will be no oil and gas industry.'

The two-day programme will include a large technical conference, keynote addresses by leading industry figures, an exhibition, networking lunches, student programme, field trips, and short courses presenting the latest developments in geophysics, geology, and reservoir engineering. The event will include more than 40 exhibiting companies and almost 100 oral and poster presentations. Three special oral sessions have been identified with invited expert speakers: 'SE Asia Exploration', 'Innovation in Geoscience,' and 'Unconventionals'. Submit your abstract on [www.pgcem.com](http://www.pgcem.com) before 9 November 2012!

Students are catered for as well with special talks lined up and of course the all new PGCE 2013 Student-Industry Geo-Quiz! This will be the first time where each of the 20 competing university teams from South East Asia will be

made up of two students paired with a representative from the industry. The winners will be able to look forward to some attractive prizes!

A night not to be missed will be the popular Gala Night! It will be held in a spectacular setting featuring sumptuous cuisine and fantastic entertainment. New in 2013 will be the special 'Executive Programme' where VIPs and other distinguished guests will have the opportunity to meet industry leaders along with the PETRONAS senior management.

The PGCE committee congratulates and thanks all the companies and delegates for their continuous support of the event which enables it to improve every year. Chairman of the organizing committee, Redhani A. Rahman, General Manager of Basin Studies, PETRONAS Exploration, is urging everyone to participate again at 2013 PGCE noting that companies securing their booth space and sponsorship agreements by 1 January 2013 will be entitled to early bird discounted rates and special sponsorship categories. For more information, please visit the official website [www.pgcem.com](http://www.pgcem.com) or send an email to [info@pgcem.com](mailto:info@pgcem.com).

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# Beijing set to host prestige IPTC event

More than 5000 participants from around the globe are expected to attend the sixth International Petroleum Technology Conference (IPTC) on 26–28 March in Beijing presented by China National Petroleum Corporation (CNPC) and co-hosted by ExxonMobil Corporation.

IPTC is a flagship, multi-disciplinary technical event which rotates annually between the Middle East and Asia. It is one of the world's

“ The success of IPTC is based on the knowledge, capabilities, and strengths of the participating industry leaders. ”

largest professional society-based oil and gas conferences organized by AAPG, EAGE, SEG, and SPE with attendance by influential industry leaders and E&P professionals, as well as senior government officials and representatives from non-governmental organizations.

IPTC provides the opportunity for energy professionals to address technical and business issues that challenge oil and gas organizations operating in all parts of the world, and overarching industry issues such as health, safety, and environment; security; and competency and training.

IPTC highlights so far include:

- Presentations from senior executives and industry experts, a multi-disciplinary technical programme, a multi-sector exhibition, plus an education week, young professionals workshop, and networking opportunities
- More than 2000 abstracts from 302 organizations representing 53 countries
- IPTC 'Excellence in Project Integration Award',



- Early exhibitors include Chevron, ExxonMobil, Hess, Kuwait Oil Company, Saudi Aramco, Schlumberger, Shell China, Statoil, Total, and Weatherford.

The success of IPTC is based on the knowledge, capabilities, and strengths of the participating industry leaders and the sponsoring societies' global membership, along with the spectrum of multi-disciplinary technical knowledge shared during the event. For conference technical programme committee, exhibition, and sponsorship information please contact [iptc@iptcnet.org](mailto:iptc@iptcnet.org) or visit [www.iptcnet.org/2013](http://www.iptcnet.org/2013).

## Seismic imaging basics is popular topic for first student lecture tour

Prof Dr Deva Ghosh of Universiti Teknologi PETRONAS (UTP) has been enjoying an excellent reception during his current lecture tour, which is the very first EAGE Student Lecture Tour Asia Pacific (SLT AP 2012). The three-hour lecture on 'Seismic Imaging Fundamentals with Asia Region Case Studies' has been presented in numerous locations since it began in May this year.

The SLT AP started with visits to Kuala Lumpur, Sabah and Penang, Bandung and Jakarta (Indonesia), followed by Chiang Mai and Bangkok in Thailand, Hanoi and Ho Chi Minh City (Vietnam), and Manila,



Student participants at seismic imaging presentation.

Philippines. All lectures were very well attended by lecturers, technicians, postgraduate students, undergraduate students, and other academics of the universities. The lecture provides insight into the concept of Huygen and its mathematical counterpart, the Kirchhoff and Fresnel as applied to complex geology. An important message is that the propagation media velocity and its determination is key. Prof Ghosh concludes with real earth data examples from the Asia region extracted from different geological settings. In addition, participants are allocated time for an interactive Q&A session followed by a short discussion before the lecture ends.

Prof Ghosh is principal investigator at the proposed Centre for Seismic Imaging & Hydrocarbon Prediction (CSI) and professor of geoscience at the Universiti Teknologi PETRONAS. He urges students and staff interested in attending to register via the EAGE website for the upcoming lecture tours which are complimentary. All the details of upcoming lecture tours and their locations may be obtained from the calendar of events made available on our website. The SLT AP 2012 tour is sponsored by the EAGE Student Fund. Should there be any questions, please do not hesitate to contact the EAGE Student Affairs Department by sending us an email at [asiapacific@eage.org](mailto:asiapacific@eage.org).

## 'Changing Frontiers' theme will be a big talking point at EAGE London!

**Dr Mike Daly, chairman EAGE London 2013 and executive vice president exploration, BP writes: 'Changing Frontiers' is the theme the 75<sup>th</sup> EAGE Conference & Exhibition incorporating SPE EUROPEC in London (10–13 June 2013) will address, and I would like to highlight four of the trends that I believe will define our discussions next year.**

Firstly, the volatility in oil price is likely to continue, for some new reasons as well as the familiar old ones, so this will likely be a topic in June 2013. There is a very delicate interplay between fears of supply disruptions in the Middle East driving the price up, and weakening consumption and the growing non-OPEC production levels in the USA and Canada causing the reverse.

Secondly, the shale revolution itself continues to play out and dominate the industry media. In the US the collapse of the natural gas price has caused the focus to switch from shale gas to liquid-prone shale and tight oil production. There is also the associated issue of achieving an informed and balanced debate on the environmental impact of shale. We will hear much more about these concerns in the EAGE 'Global Gas Challenge' Forum during the Annual Meeting in London.

Thirdly, the exploration successes of the past 10 years show a trend moving away from the

deepwater that still has real momentum. In terms of the size of hydrocarbon finds, two old plays – the pre-salt carbonates of the South Atlantic and the dry gas of the Rovuma Delta – are dominating exploration activity. In addition, supergiant, single discoveries along the Atlantic and East India margins and large discoveries in well-explored deltas such as the Nile and Mississippi have all contributed to renewed exploration success. Although technology has played a role in each of these plays, they are equally the product of new perspectives on well-known geology. The EAGE Forum on 'Exploration to 2050' during the Annual Meeting will open up debate on these plays and the key to their discovery.

Finally, but somewhat disturbingly, it seems that the momentum of double digit growth in renewables is fading. Policy-makers are finding that the subsidizing of even a small component of solar, wind and biofuel in their energy bud-

gets is proving too onerous in the current global economic circumstances.

The four trends I have identified will surely be with us in London in June 2013, and it will be fascinating to hear what our eminent panellists and speakers will have to say about them. One thing you can be sure of is that the people you come to listen to will be central players dealing with these big issues of the day and key to pursuing our Changing Frontiers.

### Submit your paper

The call for papers for London '13 is now open. Please go to [www.eage.org](http://www.eage.org) and submit your paper!

The deadline for all submissions is 15 January 2013.

## Prof Styles' Education Tour is a big hit with Australian students

EAGE is pleased to report that Prof Peter Styles visited Australia to teach the EAGE Education Tour 7 course on 'Environmental Geophysics: Everything you ever wanted (needed!) to know but were afraid to ask!' He visited Canberra on 15 August and Perth on 21 August. EAGE Education Tours are subsidized by EAGE and the courses in Australia were hosted by ASEG. With these Tours, EAGE fulfils its mission to give its members and others access to the latest developments at an affordable price.

Participants received this course with great enthusiasm in both locations and appreciated the opportunity to participate to Peter Styles' course. Peter Styles received very positive

feedbacks on his presentation, instructor skills and his expertise and knowledge on the topic. Participant Pauline English wrote: 'Prof Syles made the Environmental Geophysics subject matter user friendly, even though he has the most impressive credentials in physics and geophysics from the finest universities. His 35 years experience applying the techniques and knowledge to numerous real world situations, whilst also training and mentoring a great number of students through these years, represents an awesome career. His lectures are entertaining, informative, relevant, and extremely well-informed and well-supported by illustrative examples. Peter also has a happy pleasant personality which adds to his lectures

positively. It was a pleasure to have him visit Australia and we hope he comes again. Thank you to EAGE for making this course available to us in Canberra.'

*Prof Styles reports:* 'I really enjoyed presenting the courses in Canberra and Perth; the participants were enthusiastic and attentive but also questioning and many had great experience to share themselves which we managed to use to illustrate various topics and so, as ever, I think I learnt just as much as I taught, which is how it should be!'

**Please visit [www.learninggeoscience.org](http://www.learninggeoscience.org) for more information about the EET 7.**

## Broadband seismic workshop set for Kuala Lumpur next May

EAGE Asia Pacific will be hosting a workshop in Kuala Lumpur on 20-22 May 2013 on 'The Promise and Challenges of Broadband Marine Seismic.'

The objectives of the workshop are to review the current marine, towed streamer & seismic broadband technologies. Land seismic and marine OBC are not included in this agenda. The current broadband technologies will be presented from the point of view of acquisition and processing benefits and challenges. The emphasis will be on the benefits and challenges that the end users face. The experience of interpreters and quantitative interpreters performing reservoir characterization based on broadband data will form the focus of the workshop. Case histories (from all over the world) will form a prominent part of the agenda, and formulating the way forward will be one of the most impor-

“Workshop will focus on the benefits broadband offers in terms of seismic acquisition, processing, interpretation, and reservoir characterization.”

tant take-home messages from the workshop.

Target group are all geophysicists and interpreters involved in all aspects of the marine broadband revolution. With a focus on the end users with acquisition and processing as introduction and background material explaining new technologies.

The workshop co-chairmen are Sandeep Kumar Chandola (PETRONAS) and Folke Engelmarm (PGS) and they are heading a broad technical committee consisting of representatives

from Statoil, ExxonMobil, Shell, Chevron, BP, PETRONAS EPTC, JX Nippon, Lundin, Woodside, Inpex, Murphy, Talisman, HESS, ENI, ONGC, Total, WesternGeco, CGGVeritas and Delft University of Technology. At the workshop experts will share their latest findings and views. The workshop format should allow for a lot of constructive discussion and debate.

For the latest information, please check our website [www.eage.org](http://www.eage.org). You can also contact EAGE Asia Pacific office at [asiapacific@eage.org](mailto:asiapacific@eage.org).

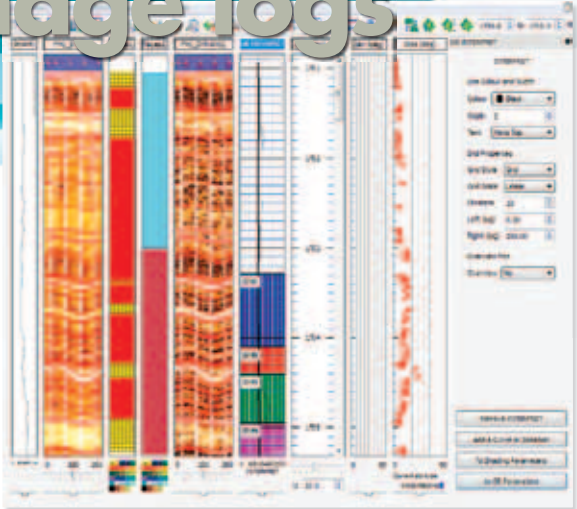
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# Thin bed evaluation is topic for Kuala Lumpur seminar

A one day seminar on 'Thin-Bed Evaluation: Petrophysical Challenges & Solutions – Methods, Tools, Case Studies' is being organized by the Malaysian Formation Evaluation Society FESM (a chapter of SPWLA) on 29 November 2012 in the Kuala Lumpur Convention Centre (KLCC). Speakers at the event are expected to discuss a range of topics covering the geology of thin beds and approaches to evaluating these difficult formations. There will also be a number of case studies.

“ An estimated 30% of world hydrocarbon reserves are considered by-passed. ”



Malaysian shoreline.

Background to the seminar is that an estimated 30% of world hydrocarbon reserves are considered by-passed because of thin beds. Hydrocarbons are by-passed largely because of an incorrect understanding of the 'earth model' and geology, formation evaluation methods that honour prescribed cut-offs, and inaccurate estimations or descriptions of optimum reserves leading to conservative perforation/

completion intervals. In fact, most reservoirs contain hydrocarbons in thin beds that cannot be resolved and evaluated by conventional log analysis.

The seminar considers this formation evaluation challenge for petrophysicists that affects reserves estimates and overall economics. For more information, please visit [www.spwla.org/chapter/malaysia](http://www.spwla.org/chapter/malaysia).

## Workshop on seismic attenuation is on the way!

In the fall of 2013 EAGE Asia Pacific will be organizing a workshop on 'Seismic Attenuation/Dispersion' at a venue to be announced. For a long time, frequency dependent phenomena have been considered too difficult to pursue, but now the time has come for us to get back to this aspect of seismology. Current improvements in all types of acquired seismic data open new possibilities to quantify and analyze attenuation/dispersion. Time to bring together the experts and discuss the latest! If you are interested in participating as a speaker or delegate, then please contact us at [asiapacific@eage.org](mailto:asiapacific@eage.org).



## Organize a Student Chapter!

EAGE provides all sorts of sponsorship and other help to groups of students who organize their own geosciences related activities. A student chapter consists of a minimum of five paying students and 10 students with a free membership plus one faculty advisor, an EAGE member, and up to two local industry supporters. Only student chapters are allowed to participate in EAGE's legendary Online Geo-Quiz. The winning three teams of the Online Geo-Quiz receive travel grants for the Annual Conference & Exhibition (a Geo-Quiz team consists of three people).

The EAGE offers Student Chapters extended network development, publishing opportunities in *First Break*, website exposure, local student event financial support, entry to the Online Geo-Quiz, and opportunities to host Student Lecture Tour (SLT) presenters.

## How the Australian Society of Exploration Geophysicists meets the needs of its members

The Australian Society of Exploration Geophysicists (ASEG) was established in 1970 with membership scattered across a country, which is almost the size of Europe. This large continent is rich in mineral resources, but the harsh environment and sparse population make exploration difficult. In fact, the great majority of the population of Australia are city dwellers with the five largest cities – Sydney, Melbourne, Brisbane, Perth, and Adelaide – accounting for most of the national population of 20 million. Accordingly, most of the ASEG members live in these cities.

Unlike EAGE and SEG, with the majority of their members engaged in the petroleum disciplines, just over half of ASEG members work in the minerals industry. ASEG has about 150 student members, enjoying membership without expenditure as their membership fee is subsidized by sponsor companies. There are about 30 corporate members which contribute to the ASEG Research Foundation. The Foundation started in 1988 and supports research activities of university students. Every year, five to 10 students are supported by this programme, and cumulatively the Research Foundation's has reached very close to one million dollars in support.

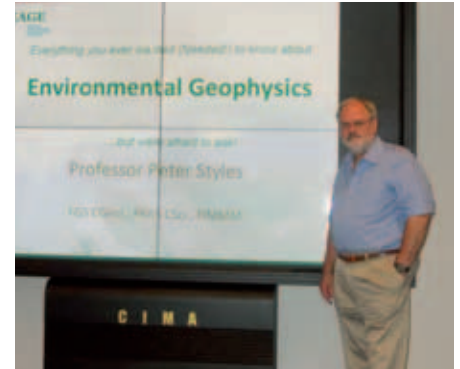
ASEG publishes two periodicals: the technical journal *Exploration Geophysics* four issues a year, and the magazine *Preview* six issues a year. *Exploration Geophysics* is a peer-reviewed technical journal rated in the Thompson impact factor. It is published jointly with Society of Exploration Geophysicists of Japan (SEGJ) and Korean Society of Earth and Exploration Geophysicists (KSEG). This provides researchers in the western Pacific region with unique opportunities to publish their work. From the contribution of SEGJ and KSEG, *Exploration Geophysics* publishes a substantial number of papers in engineering and environmental geophysics in addition to its traditional strength in minerals exploration. The *Preview* focuses communication between the society and the industry, as well as among the ASEG members and wider geophysics community with information about the geophysical and exploration communities.

ASEG's international conference and exhibition is held approximately every 18 months in different venues around Australia. The most recent 22<sup>nd</sup> conference was in Brisbane in Feb-

ruary 2012 with about 1000 delegates, 100 exhibitors, and over 200 presentations. As mineral exploration subjects account for about half of the presented papers, the ASEG Conferences are considered as some of the best in the mineral geophysics field. Next ASEG Conference is on 11-14 August 2013 in Melbourne, Australia.

ASEG has seven branches in Australia's six states and in Australian Capital Territory. The Western Australia branch in Perth is the largest with a membership count of 500, as it has the largest resource industry. The branches keep members involved in ASEG activities through monthly technical meetings and regular social meetings. The branches also host student's evenings every year, where senior students present their work at the end of the academic year, typically followed by a barbecue.

The state branches also host a range of education activities. In association with EAGE and SEG, ASEG assists the EET (EAGE's Education tour), DISC (SEG) and other tours. Because of the distances involved, it is not easy for geophysicists in Australia to attend conferences and lectures in Europe and the Americas. So the travelling lectures are greatly welcomed in Australia. EAGE and SEG typically budget one or two venues



Prof Peter Styles delivers EET7 in Canberra in August 2012.

for these lectures in Australia. ASEG subsidizes part of cost to bring the lecturers to more venues where possible. Sometimes, we also find prominent academics and researchers coming to Australia for business, sabbatical, conference, or holiday. ASEG approaches them to ask for courses and lectures in various locations.

ASEG welcomes members from outside Australia. Currently there are about 300 members residing outside Australia. More information on ASEG and membership application forms can be found at [www.aseg.org.au](http://www.aseg.org.au).

## EAGE can make your breakfast special!

Has your company ever considered holding a breakfast for 100 where customers and the local geoscience community can come and meet with a visiting specialist with technology knowledge and experience to impart? Well, if you haven't, you should come and see us as it is one of the very popular services that we have established in Kuala Lumpur since we opened office here nearly two years ago.

EAGE can help you organize special sessions for your company – breakfast, lunch, or afternoon talks that typically last for about 2–3 hours. In our experience these mini-events provide an opening for companies to profile

themselves and to show their technical expertise to the local geoscience community. The benefit of having EAGE organize your talks is that we manage and take care of all logistical issues which means it's hassle-free for you. We also have access to a good network of people whom you may want to invite to attend the talks. EAGE has done this for several companies and it has been proven successful and popular generating close to 100 participants.

Do contact us if you have an interesting speaker locally available, or have an expert coming over to the region, and we will be more than happy to discuss your needs and work together with you to create a successful meeting!

# Time to sign up for EAGE membership benefits!

## Wondering why you should join the EAGE?

Here are just a few reasons. As a member of EAGE, you will join around 16,000 geoscientists and engineers around the world who have similar interests. It is EAGE's mission to ensure that your needs from a professional association are met through all sorts of benefits and services, from specialist publications, discounted event prices, training courses, and much more. Above all, you will be able to network amongst your professional peers wherever you are in the world through EAGE activities.

Let's take a closer look at what's on offer. As a member you will receive the EAGE flagship magazine *First Break* every month, filled with technical articles, special topics, industry news, reports

on EAGE past and upcoming events, and more. In addition, you can choose an online subscription to one of EAGE's scientific journals (*Geophysical Prospecting*, *Near Surface Geophysics*, *Petroleum Geoscience* or *Basin Research*) and receive free access to EarthDoc. If you would like to receive even more scientific journals, you need to pay only €10 extra for the online subscription.

In addition, EAGE offers a wide variety of conferences, exhibitions, workshops, and professional courses held in different locations worldwide which EAGE members can attend at discounted prices.

Highlight of the year is EAGE's Annual Conference & Exhibition which attracts more than 6,000 geoscientists and engineers from all over

“ Join around 16,000 geoscientists and engineers worldwide. ”

the world. Our next annual meeting will be held in London, UK from 10-13 June 2013.

Joining EAGE is easy, and a growing number of geoscientists and engineers are taking advantage of the professional benefits and services offered. So, why not go to the EAGE website at [www.eage.org](http://www.eage.org) and find out how to sign up or contact the EAGE Head Office at [eage@eage.org](mailto:eage@eage.org).

## Calendar of events in your region

### November 2012

15-17 November 2012

#### The 6<sup>th</sup> International Conference on Applied Geophysics

Kanchaburi, Thailand |

[www.sc.mahidol.ac.th/geophysics2012/](http://www.sc.mahidol.ac.th/geophysics2012/)

29 November 2012

#### Thin-Bed Evaluation: Petrophysical Challenges & Solutions-Methods, Tools, Case Studies

Kuala Lumpur, Malaysia | [www.spwla.org/homepage/2012-Malaysia-Topical-Seminar](http://www.spwla.org/homepage/2012-Malaysia-Topical-Seminar)

### December 2012

14-16 December 2012

#### International Symposium Hanoi Geoenvironment 2012

Hanoi, Vietnam | <http://hus.vnu.edu.vn>

### March 2013

18-19 March 2013

#### Petroleum Geoscience Conference & Exhibition (PGCE) 2013

Kuala Lumpur, Malaysia | [www.pgcem.com](http://www.pgcem.com)

26-28 March 2013

#### 6<sup>th</sup> International Petroleum Technology Conference (IPTC)

Beijing, China | [www.iptcnet.org/2013/](http://www.iptcnet.org/2013/)

### April 2013

8-11 April 2013

#### SEAPEX Conference 2013

Fairmont, Singapore | [www.seapexconf.com/](http://www.seapexconf.com/)

28 April-1 May 2013

#### New Zealand Petroleum Conference 2013

Auckland, New Zealand | [www.nzpam.govt.nz/cms/petroleum/conferences/](http://www.nzpam.govt.nz/cms/petroleum/conferences/)



### May 2013

7-9 May 2013

#### 5<sup>th</sup> International Symposium on Three-Dimensional Electromagnetics

Sapporo, Japan | [www.segj.org/3dem5/](http://www.segj.org/3dem5/)

20-22 May 2013

#### EAGE Workshop on The Promise & Challenges of Broadband Marine Seismic

Kuala Lumpur, Malaysia | [www.eage.org](http://www.eage.org)

26-29 May 2013

#### APPEA Annual Conference & Exhibition 2013

Brisbane, Australia |

[www.appeaconference.com.au/](http://www.appeaconference.com.au/)

### June 2013

10-13 June 2013

#### 75<sup>th</sup> EAGE Conference & Exhibition incorporating SPE EUROPEC 2013

London, UK | [www.eage.org](http://www.eage.org)

### August 2013

11-14 August 2013

#### ASEG-PESA 23<sup>rd</sup> International Geophysical Conference and Exhibition 2013

Melbourne, Australia |

[www.aseg-pesa2013.com.au/](http://www.aseg-pesa2013.com.au/)

### November 2013

18-20 November 2013

#### The 11<sup>th</sup> SEGJ International Symposium

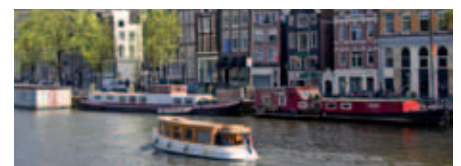
Yokohama, Japan | [www.segj.org/is/11th/](http://www.segj.org/is/11th/)

### June 2014

16-19 June 2014

#### 76<sup>th</sup> EAGE Conference & Exhibition incorporating SPE EUROPEC 2014

Amsterdam, The Netherlands | [www.eage.org](http://www.eage.org)





# Memorable success for KSEG International Symposium 2012

An inaugural international symposium on 'Geophysics for Discovery and Exploration' was held at the International Convention Center (ICC) of Jeju on 19–21 September 2012, organized by Korean Society of Earth and Exploration Geophysicists (KSEG). The scope of the symposium was comprehensive including a wide variety of topics in both scientific and engineering areas of geophysics. It was also intended that participants could enjoy the Jeju environment. It is the largest volcanic island in Korea with a unique cultural heritage, world-class recreational opportunities, Hallasan National Park, spectacular landscapes, and pure air.

Some 271 participants from 13 countries gathered in Jeju to attend the KSEG International Symposium including delegates from countries like China, Japan, and Vietnam. Student members of KSEG received valuable experience by attending the symposium and giving presentations before an international audience.

There were 13 sessions on topics such as engineering and environmental, gravity and magnetics, mining geophysics, petroleum geophysics, seismology, and one devoted to Korea Rural Corporation. During the two days, 61 talks including keynote lectures and 63 posters were presented on seismic, CCS, near surface, electro-magnetic, resistivity, gravity, magnetics geophys-



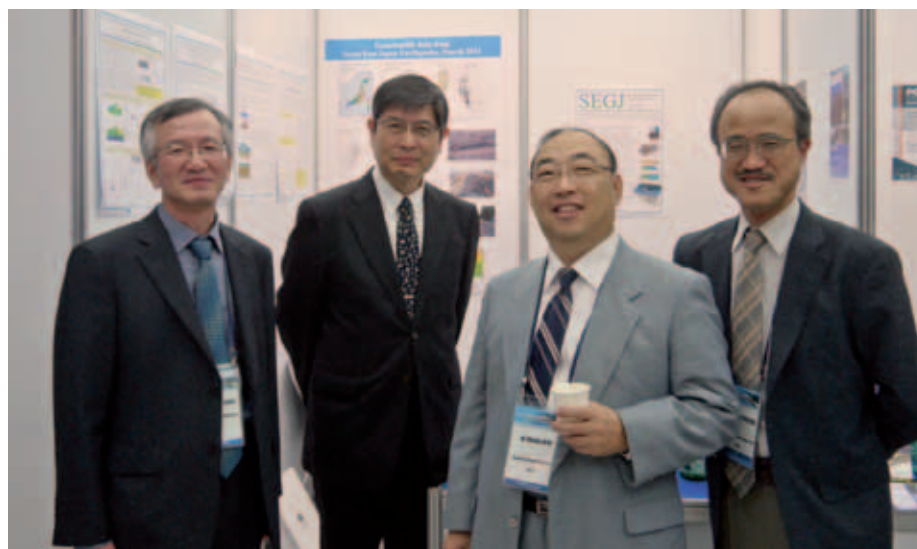
A commemorative photo after the keynote lectures. All participants congratulated the first KSEG International Symposium.

ics, and seismology. A day before the technical session, the President's Evening hosted members of the international advisory board and organizing committee. On the final day of the symposium, some participants took part in a geoscientific field excursion around Jeju. Additional news with abstracts and photos can be accessed at <http://2012symp.seg.or.kr/>.

The KSEG International Symposium adds another landmark in the society's history and will be remembered by geophysical communities

worldwide. Mutaek Lim, chairman of organizing committee and next president of KSEG, said that another international symposium had not been scheduled yet, but the hope was to meet all participants again in Korea as soon as possible.

“ Another landmark for KSEG with lasting memories for geophysical communities. ”



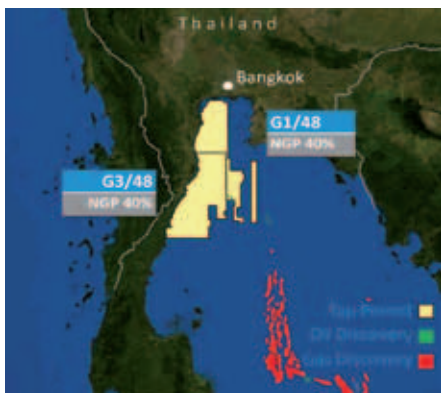
Gathering in front of the SEGJ booth, from left to right, are Prof Young Soo Song (the former president of KSEG), Prof Toru Mogi (vice president of SEGJ), Prof Ki Young Kim (president of KSEG) and Dr Toshihiro Uchida (president of SEGJ).

KSEG is a professional association of geophysicists in Korea, reconstituted in 2007 by the merger of the Korean Society of Exploration Geophysicists and the Korean Geophysical Society. The two societies were established separately in 1997. More than 700 members of KSEG are professionally involved in pure and applied geophysics and have participated actively in international conferences and workshops. The official website is [www.seg.or.kr](http://www.seg.or.kr). KSEG has expanded association agreements with overseas geophysical societies including EAGE. Through the International Symposium, KSEG intends to foster international collaboration in geophysics between its members and colleagues in other geophysical societies around the world.

# Drilling campaign in Gulf of Thailand making progress

A joint venture partner Tap Oil has reported details of the exploration prospects to be drilled in a Gulf of Thailand drilling campaign due to begin a few weeks ago.

Three exploration wells are expected to be drilled in the 2012 programme – two wells in the G1/48 concession, Northern Kra Basin, and one



Thailand acreage involving Tap Oil.

well in the G3/48 concession, southern Sattakut Basin. These wells form part of a larger exploration campaign in the region for Mubadala Petroleum. The operators of G1/48 and of G3/48 are both Mubadala Petroleum affiliates.

The first well will be Manora-5 in G1/48 which was expected to spud on 4 October 2012 and reach target depth of approx. 2450 m true vertical depth within 15 days. The well is 3 km north of the Manora oil development and will test a separate geological structure. The rig will then move to the G3/48 concession in early November to commence drilling the Pathum-1 prospect. The third and final well will be Manora North-1, the second well in the G1/48 concession. This well is expected to commence in December.

The G1/48 wells will target Manora style prospects and test synrift lacustrine sands which are the primary hydrocarbon bearing reservoirs in the Manora field. Secondary targets exist in the overlying fluvial section. Some of these sands are

oil-bearing at the Manora field. While the G1/48 wells are both located within the North Kra production area, both prospects are separate exploration targets and are not part of the existing Manora field, nor included in the calculation of Manora reserves or resources.

The Pathum-1 well in the G3/48 concession will test the petroleum potential of fluvial section as the primary target in the southern Sattakut Basin.

Tap's managing director/CEO, Troy Hayden said: 'The commencement of the drilling programme in Thailand is an important event for Tap and will generate significant activity over the coming months. The current programme, which will be fully funded from cash reserves, provides Tap with material exposure to a series of attractive prospects. We see significant long-term exploration potential in our Thailand acreage and this programme provides an opportunity to consolidate Tap's regional position and extract further value from our Thailand acquisition.'

## Four wells planned for South China Sea

Roc Oil (China), a wholly owned subsidiary of ROC and the operator of Block 22/12 exploration licence, has started its exploration drilling programme in Block 22/12 in the Beibu Gulf, South China Sea. This programme is intended to test field limits and a number of additional prospects within the vicinity of WZ6-12 oil field. WZ6-12 and WZ12-8 West oil fields' facilities are currently under development by the Beibu Project development operator, CNOOC. Following the exploration programme, a multi-well development drilling programme was due to begin using the same rig, subject to official approval.

Up to four exploration wells will be drilled using the *Hai Yang Shi You (HYSY) 931* jack-up drilling rig within the designated development areas, with the combined drilling programme planned to be completed during Q3, 2013. The rig commenced early last month drilling the WZ6-12N-1

vertical exploration well. This first exploration well is located in approx. 30 m of water and is expected to reach total depth (TD) of approx. 1600 m.

Participating interests in the Beibu Gulf exploration programme are: Roc Oil (China) 40%; Petsec Petroleum 25%; Horizon Oil (Beibu) 30%; Oil Australia (Majuko Corp) 5%.



Roc's interests in Beibu Gulf.

## Cambodia IEA under-way

Mirach Energy's associate company, CPHL (Cambodia), has signed a drilling environmental impact assessment (EIA) contract with International Environmental Management and SAWAC Consultants For Development. The two firms will jointly work on and issue the EIA report required for drilling to commence on Mirach's concession in Block D, offshore Cambodia.

The assessment is expected to complete in six months. An approval of the EIA report by the Cambodian Ministry of Environment will enable CPHL to begin drilling in Block D.

## Sound reports on Indonesian drilling

Sound Oil, the upstream oil and gas company with assets in Italy and Indonesia, has reported on its operations onshore Java, Indonesia. For the Citarum PSC, Java in which Sound Oil has a 20%, drilling at the Geulis-1 exploration well began on 2 October 2012. The well will be drilled as a deviated hole to a proposed total measured depth

of 3937 ft to target limestone and sandstone reservoirs in the Miocene, Parigi, and Cibulakan formations. Operations are scheduled for 42 days.

The well is located in the Jonggol area approximately 7 km east of the Pasundan-1 well and 16 km south of the Jatirangon gas and oil discovery. In this part of the block drilling

conditions are expected to be less challenging than at the Cataka-1 and Jatayu-1 wells as the structural style is less complex and more drilling information is available from surrounding wells.

The Geulis prospect has been independently assessed by Fugro Robertson to have gross P90-P50-P10 prospective gas resources of 9-26-55 bscf respectively.

## Sino Gas sticking to the plan in Shanxi province

Sino Gas & Energy reports that the 270 km of seismic surveying planned for its 2012 work programme on both the Linxing and Sanjiaobei PSCs in Shanxi province has been successfully completed. The 2012 planned work programme envisaged the drilling of 17 wells and shooting of 270 km of 2D seismic across both PSCs. Sino Gas has a 31.7% interest in Linxing and 24% in Sanjiaobei.

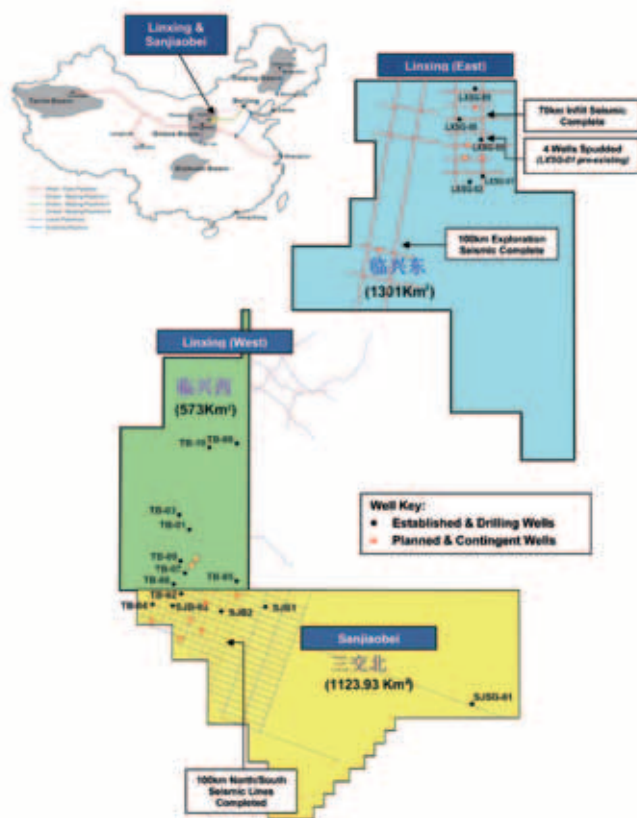
Substantial progress continues to be made in the drilling program, according to the company, with four of the eight wells planned on the Linxing PSC area spudded and LXSG-09 approaching a total depth of approx. 850 m. All four wells are targeting multiple known coal seams across the region and will be dewatered and tested upon the completion of drilling.

Sino Gas managing director and CEO, Robert Bearden said: 'The majority of the seismic fieldwork has been focused on previously unexplored acreage, allowing for further expansion of the already large resource base of 3.7 tcf and providing more clarity of the project's additional valuation upside potential.'

'We have made significant progress in recent weeks with the seismic programme complete and drilling operations well underway, and the manner in which we are executing the work programme is a credit to the team on the ground in Shanxi province. Despite adverse weather in the region, the operations team has built on its excellent 2011 safety record of 578,000 incident free man-hours by accumulating another 304,892 hours so far this year. With continued operational success, Sino Gas is well positioned to take advantage of growing domestic demand for natural gas which is expected to more than double by 2017.'

Progress also continues to be made on seismic and drilling programmes on the northeastern corner of the Linxing acreage, which are key requirements to support Chinese Reserve Report (CRR) submission. Seismic data acquired is to be used for further resource assessment and supplements the drilling and flow testing results required for the CRR.

Expansive seismic acquisition running from north to south over a previously unexplored portion of the eastern acreage has also been executed as planned. Data acquired will initially be analysed by the seismic contractor, before further analysis is conducted by the operations team to determine the location of an initial deep exploration well. Positive progress continues to be made on the pilot programme planned on the western acreage.



Shanxi province oil and gas operations.

Completion of the north/south running seismic lines supplements existing seismic data, and forms an important part of maturing resources into reserves. Although the drilling programme has been delayed due to road damage caused by adverse flooding in the region, the operations team is said to be coordinating with local government authorities to allow safe and early access into drilling areas. Furthermore, alternative strategies are being pursued to complete the remaining drilling program within the planned timeframes, the company says.

## SeaBird on \$7.5 million seismic contract

SeaBird Exploration has announced that its seismic vessel *Voyager Explorer* has received a letter of award from an oil company in South East Asia. The contract value is approx. \$7.5 million and contract duration is estimated at 50 days. The *Voyager Explorer* was due to be mobilized from East Africa.



## Australia set to be no 1 LNG player

The big spending of oil and gas firms and a focus on deepwater drilling will see Australia overtake Qatar as the biggest global producer of liquefied natural Gas (LNG) by 2017, according to natural resources analyst GBI Research.

The study says that domestic and regional demand has spurred Australia to intensify deepwater natural gas production from the country's abundant offshore reserves. Deepwater drilling is a highly rewarding but expensive and risky endeavour. Australia's offshore drilling expenditure in 2011 was \$1.9 billion – \$1.3 billion of which was dedicated to deepwater hydrocarbon production. GBI Research predicts this portion will grow to \$2.5 billion by 2016, while shallow water expenditure will show minimal growth, increasing by just \$0.06 billion during the same period.

Australian offshore natural gas exploration has intensified since the 2008 economic collapse. In 2009, 72 wells were drilled, but this figure has increased steadily each year and is expected to reach 153 in 2016.

## Lundin spuds off Malaysia

Lundin Petroleum has begun the third well in its 2012 Malaysian drilling campaign with the spud of Merawan Batu-1 exploration well in PM308B Block, offshore east coast Peninsula Malaysia. The well will target hydrocarbons in Oligocene-aged sands in a faulted anticline in an undrilled area 50 km to the west of the Janglau oil discovery made by Lundin in 2011.

Merawan Batu-1 is a vertical well to be drilled by the jackup rig *West Courageous* to a depth of 3584 m in approx. 60 m water depth.

Lundin Petroleum holds 75% in PM308B through its subsidiary Lundin Malaysia. Lundin Malaysia's partner is PETRONAS Carigali with 25%. The company operates six blocks in



Malaysia, namely PM307, PM308A, PM308B, SB303, SB307, and SB308.

## Schlumberger opens China Petroleum Institute

The Schlumberger China Petroleum Institute (SCPI) located in the Schlumberger China headquarters office building in the Chaoyang district of Beijing has been officially opened. The institute has more than 100 petro-technical experts, most of them co-located on the same floor of the office building in Beijing, and others working in several locations around China.

The Data Services and the Geoscience and Petroleum Engineering (GPE) teams form the core of the Institute. They are tasked to work in tight coordination with the domain experts from all other Schlumberger technology segments to deliver best-in-class integrated petro-technical services to Chinese national oil and gas companies and to international oil companies working in China.

In addition to petro-technical services, the Institute provides technical support to Chinese national oil companies for their international projects, as well as petro-technical training via NEXt. It also acts as a hub for conducting R&D projects jointly with Chinese national oil companies and universities.

Cheng Xu, president, Schlumberger China, said: 'The establishment of the SCPI is a milestone in Schlumberger's 30-year history in China. The Institute leverages Schlumberger's



expertise in reservoir evaluation. It shows our long-term commitment to our customers in China.

Dr Bernard Montaron, director, SCPI Schlumberger, said Schlumberger was well known for its ability to invent and develop new technologies. 'We are excited at SCPI to propose joint R&D initiatives to our clients to develop and test technologies to address technical challenges specific to China oil and gas fields. This could be very important for the future, especially for unconventional resources.'

### Trivia answer

C - Limestone