Regional growth of our services continues

Len Srnka, EAGE president, writes: I am happy to report that 2013 is already looking to be a very successful year for EAGE, and I can include our Asia Pacific services in this assessment. We enjoy an enviable position as part of the global energy community, and as a result EAGE is weathering well the economic storms that continue to plague most of Europe and many other parts of the world. We of course will not let down our guard as we carefully manage the Association’s affairs.

As I think back over my presidency, I see a number of events and activities that deserve special highlighting. First is the continued membership growth in our regions. As of December we have around 16,000 members, another all-time high, and this growth shows no sign of abating.

A second highlight is the continuing success of our education programmes, in particular the EAGE Education Tours (EET) which have had notable success in the region.

A third highlight for me was the recently announced reduction in prices for online subscriptions to our five journals, coupled with an increase in prices for print subscriptions that more accurately captures their true production costs and which encourages us all to think greener.

Our five new Board members who joined us in 2012 – fully half of the entire Board - Philip Ringrose (Vice-President-Elect), Paul Sava (Education Officer), Walter Rietveld (Technical Programme Officer), Roald van Borselen (Membership and Cooperation Officer), and Dirk Orlowsky (Near Surface Geoscience Division Chairman) – have come up to speed quickly, and are making significant contributions in their respective roles.

Forward Together

The theme for our Association of moving ‘Forward Together’, as described in our journal First Break last August, is showing tangible effects through the hard work of the Board, of our many committees, and by the office staffs in Houten, Dubai, Moscow, and of course here in Kuala Lumpur.

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. This is something we are very conscious of in our outreach to the rapidly

Singapore workshop to tackle challenge of ‘geologically unfriendly’ frontier regions!

EAGE is to hold a workshop on ‘Joint Interpretation of Geophysical and Geochemical Data for Exploration in Challenging Areas’ April 2014 in Singapore (date to be confirmed). The aim of the workshop is to present new developments in integrated geophysical imaging and geochemical interpretation of the subsurface, with emphasis on real-life applications relevant to hydrocarbon exploration in frontier regions.

The focus of oil and gas exploration has moved into ‘geologically unfriendly’ frontier regions where structural complexity and hydrocarbon system fundamentals are significant challenges. In deep water and other frontier environments, large volumes with high resource density and limited compartmentalization are required that can be appraised and developed with a minimum
Regional growth of our services continues

Continued from p. 1

growing ranks of members in the regions around the world.

2013 and 2014 are seeing several new initiatives as a result. The most exciting is the significant expansion and relocation of our Kuala Lumpur office, details of which are provided in this newsletter.

EAGE is also partnered with AAPG in the workshop on ‘Profits and Pitfalls of Shallow Seismic Anomalies’, coming up in June, and with FESM for the regional conference ‘Petrophysics Meets Geoscience’, in February of 2014. In October 2013 a workshop on ‘Seismic Attenuation’ is scheduled, and in April 2014 the workshop ‘Joint Interpretation of Geophysical and Geochemical Data for Exploration in Challenging Areas’ will take place. Aside from these new events, in 2013 EAGE continues its annual cooperation in the IPTC series, and has repeated its management of the ever growing PGCE conference.

May I just finish by wishing our members in the Asia Pacific region and the many others who participate in our local events, or take an interest in our geoscience and engineering community, all the very best for 2013.

Singapore workshop to tackle challenge of ‘geologically unfriendly’ frontier regions!

Continued from p. 1

number of wells. Whereas leads and prospects may show seismic, CSEM, and geochemical anomalies, many plays are characterized by poor data quality and structural complexity which requires new data interpretation concepts in order to reduce drilling risk.

The interpretation of data from individual geophysical methods is often plagued by non-unique-ness, which leads to a range of subsurface images and interpretations for the same targets. Multi-dimensional full-physics modelling and simultaneous inversion of geophysical measurements from methods based on fundamentally different phenomena (e.g., wave phenomenon in seismics and diffusion phenomenon in CSEM), have recently allowed a major advance in our ability to characterize geological heterogeneity or map complex reservoirs at different spatial scales. Joint interpretation, inversion methods, and image-guided inversion are beginning to produce models that are in better accord and closer to the true target property distribution than separate inversions of data from single methods. Recent advances in structural and non-structural approaches to joint interpretation and inversion now make it possible to objectively combine a variety of field data to generate subsurface images with improved accuracy and structural or petrophysical conformity.

Workshop conveners Max Meju, PETRONAS Carigali, and Len Smka, ExxonMobil Upstream Research and current EAGE president, are inviting contributions involving, but not limited to: (i) the development of realistic coupled multi-physics-based or integrated predictive models of subsurface reservoirs; (ii) joint inversion approaches especially for full-waveform seismic, electromagnetic, and potential field data and their applications in characterizing the top 5 km of the subsurface; (iii) improved structural, lithological, petrophysical, and geohazard predictions (including over-pressure) underpinned by integrated data analysis or joint inversion; (iv) computational approaches to handling large volume data in 3D joint geoscientific inversion, and (v) integration of seabed geochemistry with seismic and CSEM exploration data.

For more information, refer to the EAGE website or contact the Kuala Lumpur office.

“Structural complexity and hydrocarbon system fundamentals are significant challenges.”

Spectacular Singapore night lights.
Amsterdam 2014 will be an energy experience!

Bruce Levell, chairman of the Local Advisory Committee, introduces next year’s Annual Meeting in Amsterdam.

‘Experience the Energy’ is the theme for EAGE’s 76th Conference & Exhibition to be held in Amsterdam, one of our most popular venues. This is an invitation to meet fellow professionals, catch up with old friends, share experiences, and at the same time appreciate and learn from the breadth and depth of geoscience and engineering activities around the world.

The main business of the meeting will be how the multi-disciplinary approach to oil and gas exploration and production fostered by EAGE can contribute to meeting the energy demands of the future. The role of fossil fuels and increasing low emission, low carbon fuels are set to continue for decades in the global energy system simply by virtue of the investment needed for any alternatives to scale up to meet the demand. ‘Experience’ will play an essential role in providing the solutions. A major priority is to build on the experience of our current workforce and sharing this experience with new generations of professionals who need to be brought up to speed as rapidly as possible.

The 76th EAGE Conference & Exhibition 2014 will include a large conference (over 1000 papers presented) and a technical exhibition presenting the latest developments in geophysics, geology and reservoir/petroleum engineering, and much more.

This is already a good time to be considering a submission to the Call for Papers, which is due to open on 1 August. For all Annual Meeting information, please consult www.eage.org. We look forward to welcoming your participation in Amsterdam to experience first-hand both the ‘energy’ and our host city!

Kuala Lumpur to welcome joint EAGE/FESM event next February!

Don’t worry, you don’t need to ride a Harley to attend the EAGE/FESM joint Asia Pacific conference ‘Petrophysics Meets Geoscience’ in Kuala Lumpur, Malaysia, on 16–18 February 2014!

This will be the first big regional conference jointly organized by EAGE and FESM (Formation Evaluation Society of Malaysia), the local chapter of SPWLA (Society of Petrophysicists and Well Log Analysts). With the title ‘Petrophysics Meets Geoscience’, the conference in the beautiful city of Kuala Lumpur is intended to bring together professionals from the region and abroad for a truly inter-disciplinary knowledge-sharing event that will span the whole spectrum from ‘nano pore scales to mega reservoir structures’.

As such, the conference connects many subsurface professional disciplines to evaluate rock properties at different scales. We all understand the importance of aligning the various subsurface workflows and their integration for 3D reservoir characterization. This event will be a unique opportunity to learn how to change from the ‘silo’ mentality of the individual disciplines to truly integrated best practices.

The programme will be opened with a traditional icebreaker reception on Sunday 16 February, where the drinks will of course be served ‘on the rocks’. The two-day technical programme starts on 17 February, with a special conference dinner in the evening.

In addition to the conference, the short course ‘An Introduction to Rock Physics’ is being offered by Dr Mark Sams, quantitative interpretation (QI) manager at IKON Science. There will also be a short course for our students entitled ‘Subsurface Facies Analysis’ which will be convened by Prof Peter Lloyd.

The Call for Papers is now open, and the key topics include, but are not limited to: Integrated Reservoir Characterisation, Rock Physics Modeling & Workflows, Field Studies & 3D models of Asia/Pacific basins, Core to log & Log to seismic integration, Upscaling from pore to 3D reservoir scale, Applications of Digital Rock Physics, Geomechanical studies, Laboratory testing & Advances in Core Analysis, EOR applications, incl. 4D seismic & Surveillance logging.

The organizers also encourage you to submit presentations on other special rock physics applications, e.g., for unconventional reservoirs and EOR projects.

The deadline for extended abstracts submission is 15 September 2013. Petrophysicists and geoscientists from around the Asia Pacific region are urged to consider this event as an opportunity to come together and enjoy two days of Malaysian hospitality. See you in tropical KL!
New office, new people to serve our growing geoscience community

Gerard Wieggerink, EAGE regional manager, Asia Pacific, writes: This first issue of 2013 EAGE Newsletter Asia Pacific comes out at an interestingly busy time of the year for all of us in the office. We are delighted to announce our expansion in the region! Urged by the emerging need for more working space, the EAGE Asia Pacific office moved to Level 15 of the UOA Centre Office Suites. Our team now enjoys the ability to stretch our legs in this dynamic and spacious office environment where we are welcoming four new additions to the team.

Introducing our newcomers, on board is Juliana Wong (events manager), Afsham Hassim (finance manager), Loorthemary Arulnathan (membership and registration coordinator), and Kogila Ramesh (Membership and registration assistant). All new employees have expressed great enthusiasm for embarking on a new career at EAGE and sharing the missions and visions of the organization. The team is highly motivated to ensure our plans for 2013 are achieved successfully.

EAGE Asia Pacific is excited about the growth seen this year, proving that we will continue to robustly support and promote the development and application of the geosciences and further communication and cooperation for the benefit of all EAGE members in the region.

Looking back at the efforts and achievements in 2012, we had an active year with some excellent workshops, courses, and lecture tours. The New Year started with the major prestige event PGCE 2013 (Petroleum Geoscience Conference & Exhibition), in Kuala Lumpur, attended by over 2600 delegates, a record-breaking number in the event’s history. EAGE Asia Pacific managed the technical programme, exhibition, student programme as well as the marketing and communications of this conference.

In mid-year, EAGE conducted two successful and well-attended workshops which were first time events in Kuala Lumpur. The ‘Promise and Challenges of Broadband Marine Seismic’, a three-day workshop which took place from 20–22 May 2013 ran to a full house of 135 participants comprising of expert geophysicists and interpreters involved in all aspects of the marine broadband revolution. They shared latest findings and views allowing open discussion and constructive debate amongst participants. The workshop was followed by a short course by Dr Andrew Long (PGS) on broadband seismic entitled ‘A Platform to Understand, Measure, Compare and Exploit the Options Available Today and Tomorrow’ attended by an excellent number of 50 participants.

In view of the event’s success, a follow-up meeting will be planned soon. One of our key goals that EAGE has strived to achieve has been stronger cooperation with our sister societies and we are pleased to have organized our very first AAPG/EAGE Joint Workshop on ‘Profits & Pitfalls of Shallow Seismic Anomalies’ held from 4–5 June 2013.

The workshop attracted speakers from a wide variety of areas ranging from Malaysia (Peninsular, Sarawak, Sabah) to Indonesia, Australia, Norway, and the Falklands.

This year sees the first EAGE workshop on ‘Seismic Attenuation’ from 28–30 October 2013. The second half of this year will also see the EAGE Education Tour (EET 6) ‘Seismic Surveillance for Reservoir Delivery’ touring around several countries in the Asia Pacific region and Education Days Kuala Lumpur with potentially 3–4 courses covering the latest in geophysics and geology that are in demand.

Preparations are well underway already for 2014 as we look forward to our first EAGE/FESM Joint Asia Pacific Conference: ‘Petrophysics Meets Geoscience’ scheduled for 17–18 February 2014 in Kuala Lumpur and the ‘EAGE Workshop on Joint Interpretation of Geophysical and Geochemical Data for Exploration in Challenging Areas’ planned for April 2014 in Singapore, exact dates will be confirmed soon.

We welcome your feedback. You can contact us at the EAGE Asia Pacific office at asiapacific@eage.org with any questions or suggestions over the coming year.
Topics galore to be explored at Annual Conference Bookshop!

A visit to catch up on the latest titles and bestsellers available is essential when you arrive for this year’s Annual Conference in London! There are books to find for every kind of professional, as our wide assortment of publications covers many different fields of study including geology, petrology, geophysics, and economic geology.

A brand new EAGE publication to look out for is ‘Cognition in Geosciences’, by Paolo Dell’Aversana. The thesis of the book is that the activity of geoscientists can also help to illuminate fundamental aspects and open questions of epistemology and cognition. The book is addressed to a large audience; this includes students, researchers, industry professionals, and anyone interested in exploring the cognitive and epistemological fundamentals of the Earth sciences.

Another new publication on display in London will be ‘Seismic Stratigraphy and Depositional Facies Models’, by Paul Veeken and Bruno van Moerkerken. The book summarizes basic seismic interpretation techniques for sedimentary basin fills. The topics are presented from a practical point of view with abundant illustrations to support various case histories. Readers (students as well as professional geophysicists, geologists, and reservoir engineers) are taken from an introductory to a more advanced study level.

Visit the EAGE Bookshop in London, see you at Booth # 1200, and find the book you need!

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IPTC in Beijing established its increasing stature as a major industry event

The 6th International Petroleum Technology Conference (IPTC), hosted by China National Petroleum Corporation, and co-hosted by ExxonMobil, was held from 26–28 March 2013 at the Beijing International Convention Center, Beijing, China. This successful event, the first to be held in China, attracted over 4100 attendees representing 65 countries and more than 600 organizations.

The Opening Ceremony featured remarks by Zhou Jiping, president, China National Petroleum Corporation, and vice chairman and president, PetroChina Company; Mark W. Albers, senior vice president, Exxon Mobil Corporation; and Mahmoud M. Abdulbaqi, chairman, IPTC Board, chairman, Argas, and former EAGE president. During his remarks, Zhou noted that ‘IPTC has already become a highly influential conference in the oil and gas industry, despite its relatively short history’.

Under the conference theme ‘Challenging Technology and Economic Limits to Meet the Global Energy Demand’, the 6th IPTC introduced several new components. The conference featured the largest technical programme in the history of the event with over 550 papers presented in 70 technical sessions with up to 10 sessions held concurrently. 355 papers were presented in 45 interactive ePoster stations allowing delegates the possibility to browse the posters in their own time.

The conference also included, for the first time, both a CEO Plenary Session and an Executive Plenary Session. Both focused on the need for sustained interaction between national and international oil companies and service companies. ‘In the industry’s current environment, it is impossible for any company to go it alone’, said Peter Coleman, CEO of Woodside Energy, a theme echoed by all. It was also fitting that this is the first IPTC event held in China, home to 1.6 billion people. ‘China’s growth in oil demand is offsetting the decline in demand from the US and Europe’, said Khalid Al-Falih, CEO and president of Saudi Aramco. In order to meet this shifting demand, partnerships between companies and governments become even more crucial as financial capability and technical expertise must be shared, according to five chief executive officers at the CEO Plenary Session.

A highlight of the conference was the IPTC Excellence in Project Integration Award. This year a record-setting 16 nominations were submitted representing projects in 12 countries. During the gala Awards Dinner, it was announced that Total’s submission for the Pazflor offshore development, a fully integrated project spanning the entire value chain from exploration to production, was honoured with the prestigious award. The Total project team was recognized for having made ‘significant and unique achievements in managing and directing an integrated oil or gas project from discovery to delivery’.

Several programmes targeting a younger audience, such as the Young Professionals Workshop and the Education Week programme, were held in conjunction with IPTC. The highly interactive Young Professionals Workshop featured a mix of presentations by industry executives and other young professionals focused on the future of the industry, and provided opportunities for networking. Targeting an even younger group, the Education Week was designed to give an insight into the oil and gas industry to the best final year university students from around the world, and to allow them to interact directly with oil and gas professionals.

This year, 101 students from 27 countries worked together on joint technical projects which ranged from coalbed methane technology and development to intelligent wells and intelligent fields. This marks the fourth time this activity has been held in conjunction with IPTC, and industry leaders recognize it as an important tool to encourage bright young minds to consider a career in the oil and gas industry.

The exhibition featured 40 exhibitors from 19 countries, allowing them to showcase their technology and innovation in the energy sector in 2600 m² of exhibition space. Over 1700 visitors shared the floor where companies displayed new products, services, and the latest innovations for applications such as unconventional reservoirs, high pressure and high temperature wells, and also socially responsible development concepts.

IPTC is a collaborative effort AAPG, EAGE, SEG, and SPE. The synergies between these four, leading professional societies resulted in one of the most comprehensive, multi-disciplinary technical programmes among oil and gas conferences worldwide. The next IPTC will be held from 20-22 January 2014 at the Qatar National Convention Centre, in Doha, Qatar followed by the next edition in Kuala Lumpur from 10-12 December 2014.

Trivia answer
C - 40-60 million years
Chevron buys into Australian shale prospects

Chevron has joined a string of majors who are investing in Australian shale, believed to be one of the largest unconventional resources of its kind in the world. The company is buying an interest in two gas blocks in the Cooper Basin from Beach Energy.

Chevron said it will initially acquire a 30% working interest in block PEL 218 in South Australia, and an 18% working interest in block ATP 855 in Queensland. The deal gives Chevron the option of later increasing its interest in block PEL 218 to 60% and its interest in block ATP 855 to 36%. Beach Energy could receive up to $349 million over two stages spanning several years for Chevron’s interest in the two blocks.

Reg Nelson, Beach’s managing director, said: ‘This transaction vindicates in many ways the vision that the company has in relation to the potential of unconventional gas in the Cooper Basin. We look forward to working closely with Chevron and Icon Energy in the continued rejuvenation of the Cooper Basin.’

Indonesia awards 14 exploration blocks

The Indonesian government has awarded 14 new oil and gas blocks to oil and gas exploration companies in its bid to boost its production. According to agency reports, Edi Hermantoro, director general of oil and gas at the Ministry of Energy and Mineral Resources, said that the 14 blocks were part of the 16 the government offered last year.

Among the 14 blocks, the West Natuna Block were awarded to Premier Oil West Tuna, a unit of Premier Oil; the West and North East Bangkanai blocks to Salamander Energy; the West Sebuku Block to a consortium led by Inpex Corp. and Mubadala Petroleum Holdings (South East Asia), and the Merangin III Block to Cooper Energy.

Successful bidders are expected to spend $84.30 million on exploration activities during the first three years.

Ramba find in South Sumatra Basin

Ramba Energy, based in Singapore, has successfully drilled its Indonesian Akatara-1 well to a total depth of 6400 ft. The well confirmed the presence of hydrocarbons in the Selong–Akatara cluster, and likewise the Lemang block subsurface configuration understanding and its play concept.

The Akatara-1 discovery well encountered 15 potential reservoir layers, with approx. 274 ft of gross pay. Well log and pressure gradient analysis confirmed the hydrocarbon discovery in this structure. Drill stem test (DST) results revealed 11 MMscfd of gas and 380 barrels of condensate per day (BCPD) with 60° API gravity from the primary reservoir.

Following the test, Akatara-1 well was temporarily suspended as an oil and gas discovery well pending further discussions with the relevant authorities for potential immediate field development. A full comprehensive extended well testing on the remaining potential reservoir layers was expected to be carried out in near future using a small rig for cost optimization. The company will make preparations to drill the Akatara-2 appraisal well.

The Lemang block is located in the northern most part of the hydrocarbon-rich South Sumatra basin, a proven region for oil and gas production with transportation infrastructure already in proximity. Located approx. 300 km from Singapore, the Lemang block is ideally situated for oil and gas distribution to regional markets.

Ramba’s stake in the block was recently valued at $193.6 million by DeGoyler and MacNaughton, a US-based petroleum consultancy. Ramba’s local subsidiary holds a 51% working interest in the Lemang production sharing contract. In December 2012, Ramba announced a discovery at the Selong-1 well, the first exploration well to be drilled in the block. The company encountered 222 gross ft of pay, with results flowing up to 790 b/d of oil and up to 16.8 MMscfd.

Shell in Chinese shale gas deal

China National Petroleum Corporation (CNPC) and Shell China Exploration and Production Company have signed a production sharing contract (PSC) for shale gas exploration, development, and production in the Fushun-Yongchuan block in the Sichuan Basin, China.

Subject to government approval, this is the first shale gas PSC ever signed in China. The contract area covers approximately 3500 km².

Zhao Zhengzhang, vice president of PetroChina Company, and Lim Haw-Kuang, executive chairman of Shell Companies in China, signed the PSC at a ceremony in Beijing. Jiang Jiemin, chairman of CNPC, and Peter Voser, CEO of Royal Dutch Shell, witnessed the signing.

Voser said: ‘We are delighted about this new milestone in our strategic cooperation with CNPC,’ said. ‘China has huge shale gas potential and we are committed to making a contribution in bringing that potential into reality.’

Shell will apply its advanced technology, operational expertise, and global experience in the project to jointly develop the shale gas resources with CNPC.
Eni leads new contract area in the Timor Sea

Eni has been awarded a new exploration production sharing contract (PSC) covering an area of 662 km² adjacent to the offshore Kitan field, in the Timor Sea.

The PSC stipulates a commitment to drill two exploration wells during the first two years and separate options for the drilling of two contingent wells. The contract area lies within the Joint Petroleum Development Area (JPDA), which is administered by both Australia and Timor-Leste. The area has an average water depth of 350 m. In the JPDA, Eni has identified a number of oil prospects which could be taken advantage of in conjunction with the nearby producing Kitan field, in the case of any discoveries. The Kitan field, which is operated by Eni, started production in October 2011, only three and a half years after the declaration of a commercial discovery. The field reached a peak production rate of 45,000 b/d of oil in 2012. Eni is operator of the JPDA 11-106 PSC (40.53% equity) in joint venture with INPEX Offshore Timor-Leste (35.47%), and Timor GAP PSC 11-106 Unipessoal (TimorGap) (24%).

ExxonMobil starts Telok gas production offshore Malysia

ExxonMobil has started production from the Telok natural gas field, located offshore Malaysia in the South China Sea.

Neil W. Duffin, president of ExxonMobil Development Company, said: ‘The Telok development will help meet increasing demand for natural gas in Peninsular Malaysia. It is one of many natural gas developments ExxonMobil will bring on stream in the next few years around the world.’

The development concept of ‘design one, build many’ was utilized to efficiently develop the project and shorten construction and installation timelines, allowing Telok to be completed on schedule and within budget. The Telok A platform is the first phase of the Telok natural gas project, which when completed will consist of two four-legged unmanned gas satellite platforms. Full well stream gas will be produced via a new 16-mile pipeline to the existing Guntong E platform for processing. A total of 14 development wells are planned for the Telok A and B platforms.

The Telok gas field is located about 124 miles offshore the east coast of Peninsular Malaysia.

Calendar of events in your region

May 2013
15-17 May 2013
The 37th IPA Convention & Exhibition 2013
Jakarta, Indonesia | www.ipa.or.id/

August 2013
11-14 August 2013
ASEG-PESA 23rd International Geophysical Conference and Exhibition 2013

October 2013
28-30 October 2013
EAGE Workshop on Seismic Attenuation
Singapore | www.eage.org

November 2013
18-20 November 2013
11th SEGJ International Symposium
Yokohama, Japan | www.segj.org/is/11th/

April 2014
23-25 November 2013
SPG India – 10th Biennial International Conference & Exposition
Kochi, India | www.spgindia.org/

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February 2014
17-18 February 2014
EAGE/FESM Joint Regional Conference Petrophysics Meets Geoscience “From Nano Pores to Mega Structures”
Kuala Lumpur, Malaysia | www.eage.org

June 2014
16-19 June 2014
76th EAGE Conference & Exhibition (Amsterdam ‘14)
Amsterdam, The Netherlands | www.eage.org