

SPE review

magazine of the Aberdeen and London sections
of the Society of Petroleum Engineers

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Society of Petroleum Engineers

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UNCONVENTIONAL TO THE CORE!

Quality shale core, which holds the key to understanding shale gas sweet spots, is abundant in Eastern Europe, SPE London members learned at the Section's monthly technical presentation on the relevance of this form of unconventional gas to the European market – *see page 4.*

A SMASHING SOCIAL SUCCESS!



An influx of serious new talent smashed all previous SPE Aberdeen bowling records at the annual Bowling Night in October, organised by members of the Section's Young Professionals and Another Perspective Committees.

The fun social networking event, at Codona's Sunset Boulevard, launched the start of the new session and attracted a mix of new and familiar faces from the Section's vibrant YP, AP and Student Chapter community, who really entered into the spirit of the occasion with some knockout bowling and a lot of laughter!

New SPE Aberdeen YP Committee announced – page 8



SPE review

The Society of Petroleum Engineers (SPE), a not-for-profit professional association of 97,000+ members from more than 118 countries worldwide, is a key resource for technical knowledge related to the oil and gas exploration, drilling and production industry.

The SPE provides services through its global events, publications and website at www.spe.org.

SPE review is published 10 times per year by the Aberdeen and London sections of the Society of Petroleum Engineers. It is sent to over 4,500 UK SPE members, and quarterly to an additional 6,000+ European members.

If you have read this issue and would like to join the SPE and receive your own copy of **SPE review**, as well as many other benefits – or you know a friend or colleague who would like to join – please visit www.spe.org for an application form.

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OCTOBER 2011 - MARCH 2012

Modules from the annual MSc course in Petroleum Engineering have been made available to practising industry professionals who might require updating in various subjects. Over twenty short courses are on offer covering reservoir characterisation, well performance, reservoir performance and field development.

Upcoming modules:

- **Fluid Sampling & Analysis**, 8-9 November
- **Well Testing**, 10-21 November
- **Uncertainty Modelling from Static to Dynamic**, 14 November
- **Production Logging**, 21-22 November
- **Integration into Reservoir Model**, 23-24 November
- **Well Construction: Drilling and Completion**, 11-13 January
- **Production Engineering/ Well Performance**, 16-20 January

www.imperial.ac.uk/cpd/peteng

For further details, please contact:
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Imperial College London
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London

Dr Peter Rowley, of Environmental Resources Management (ERM) will launch the SPE London evening meeting on **29 November, at the Geological Society, Piccadilly**, with a presentation on **'The New Operating Environment Post-Macondo: How are we doing?'**

Today's operating environment faces a rising tide of stakeholder scrutiny, increased drilling and operating costs, as well as rising cost of capital. Institutional lenders and insurers are protecting their own bottom lines by assuming a proactive stance on industry best practices and the reputational capital of companies seeking project funding. E&P companies and their suppliers are being challenged to take a more critical look at how risk management, HSE performance, organisational culture, and asset management are central to sustainability performance, securing a licence to grow and the management of critical Non-Technical Risks (NTRs). As investor scrutiny sharpens, the need to better manage deepwater non-technical performance has also abruptly escalated. This talk will propose that now is the time to take a fresh look at how E&P companies are lined up to address their NTRs, by correctly balancing short-term versus long-term business needs, integrating technical and non-technical risk management, making informed non-technical decisions grounded in facts and addressing internal organisational interfaces and fragmentation.

Dr Peter Rowley is acknowledged as an international leader in environmental and strategic management consulting, with over 30 years' experience in these fields. Following completion of his PhD at the University of New South Wales and prior to joining Dames & Moore, Dr Rowley was a Fulbright Professor in Chemistry at Colorado State University, where he undertook joint research projects with the US Environmental Protection Agency and the US Geological Survey. During his 25-year commercial career, he has successfully directed numerous environmental assessments for the oil and gas, mining and chemical industries.

Environmental Resources Management (ERM) is a leading global provider of environmental, health, safety, risk, and social consulting services, with more than 140 offices in 40 countries and 4,000 employees. Over the past five years ERM has worked for more than 50% of the Global Fortune 500, delivering innovative solutions for business and selected government clients to help them understand and manage the sustainability challenges the world is increasingly facing.

Following the networking buffet, **Ged Lunt, of Intotech Wells Ltd** will present **'Case Histories of Life Cycle Well Integrity Management'**, focusing on:

- how software has delivered life cycle management of well integrity for 14 operators
- data management: integrating information from multiple sources and legacy systems
- monitoring adherence to well integrity management policies
- communicating well integrity performance by email alerts and reports for engineers and managers.

As Manager of Intotech Wells Ltd, Ged Lunt has been responsible for delivering the Intotech Well Integrity Toolkit (iWIT) software for well integrity management to clients including the BG Group worldwide operations, Statoil (2000 wells in Norway), Stogit (ENI gas storage

company) and Hess Equatorial Guinea. He has extensive experience in analysis of customer well integrity management requirements, in interfacing database systems into the iWIT software and in customising iWIT to match company requirements.

Intotech (name derived from INTEgrity TECHnology) was formed in 1991 to provide engineering consultancy services and integrity software to the international Upstream operators. The company's flagship Intotech Well Integrity Toolkit, iWIT, was first installed in 2006 for a HPHT operator in Kazakhstan and has since been installed by 14 operators internationally and now manages more than 8000 wells.

Before dinner: 5-6.30pm

Dinner: 6.30-7.30pm

After dinner: 7.30-9pm

Booking: www.katemcmillan.co.uk; tel: 07736 070066;

katespe@aol.com

Cost: £34 for SPE/PESGB/EI members, £44 non-members, £19 unemployed members, £5 students booking by Friday 25 November (£19 after).

Aberdeen

On **23 November**, at SPE Aberdeen's monthly meeting at the **Douglas Hotel, Aberdeen**, Paul Dymond, of Oil and Gas UK, will discuss the **'UK Response to the Macondo Gulf of Mexico Oil Spill'**.

Early booking for this event is advisable.

With over 30 years of upstream industry experience, mainly based in the UK, Paul Dymond started as a Petroleum Engineer with BP, before moving into a variety of commercial and external affairs roles within the same company. He joined Oil & Gas UK (then UKOOA) in July, 2003, and is responsible for operations issues and bringing a consolidated industry perspective to cross-industry, non-fiscal initiatives in support of sustaining North Sea success, including exploration, field developments, decommissioning and infrastructure. In 2002 he was awarded an MBE in the New Year's Honours List for his services to the UK oil and gas industry.

Edinburgh

Sandy Williams, of ALP Limited, will present **'Production optimisation: how can we get more oil?'** at SPE Aberdeen's Edinburgh evening meeting, at **Edinburgh Conference Centre, Heriot-Watt University, Riccarton, on 9 November**.

Our assets are mature and depend on artificial lift to keep our wells producing. Many of our fields have to be operated at low cost, but are we getting the production we should be getting from our wells? This presentation will discuss the application of artificial lift, review common problems that result in lost production, discuss current contracting models identifying how we could have better alignment of objectives with our suppliers, and present case histories to illustrate the key points. Ultimately a low cost producer is interested in a lower cost / barrel of production. This presentation will focus on how we can increase the barrels side of the ratio.

For bookings and enquiries for the Aberdeen and Edinburgh events, visit: www.rodgerandco.com or Aberdeen Events at www.spe-uk.org

Grand turnout from Adam Smith!

A group of 15 HNC/D Petroleum Engineering students and two lecturers from Adam Smith College, Kirkcaldy, made the two-hour trip to attend the SPE Aberdeen meeting in September.

Bill Hutchison, Curriculum Head Petroleum Engineering, explains:

"We have a long tradition of regular attendance at the Aberdeen SPE evening lectures and try to incorporate an afternoon industrial visit to reinforce teaching on our course. We find the SPE Lectures an invaluable support to the course and are particularly grateful to the guest speakers for generally making their presentations available."

"Our two-year course is broadly similar in level and scope to Texas A&M University's Degree Diploma in Petroleum Engineering. We have targeted the technician/technologist level of the Upstream industry, eg Driller, Tool Pusher, etc, and our course attracts a wide range of local, national and international students from school leavers to 20-year veterans of the industry."



From surface jet pumps to the shale gas market in one entertaining evening!

Two diverse technical presentations prompted enthusiastic question and answer sessions at the September SPE London evening meeting at the Geological Society, which was kindly sponsored by Gaffney, Cline & Associates.

'The applications of surface jet pump technology to increase oil and gas production'

This practical and comprehensive pre-dinner presentation by Dr Najam Beg, Technology Director and co-founder of Caltec Ltd, left the audience in no doubt about the significant 'booster' benefits delivered by surface jet pumps in their many guises and applications across the global energy industry.

Najam described the flexible technology solution as *"an effective use of surplus and normally wasted energy – from high pressure sources such as HP wells, HP gas from process systems, compressor recycled gas and HP oil/ injection water – to assist the existing production."*

In most cases, he said, simplicity and cost effectiveness make surface jet pump solutions highly attractive. For example, their maintenance requirement is minimal, there is a short payback period, and they may also enable the deferment of an operator's major Capex spend, such as on compressor upgrading.

After describing in detail the basic operating principles, design and performance of surface jet pumps, he introduced a number of case studies focusing on both gas and oil applications of the technology. In gas applications, such as in the Southern North Sea, onshore Holland, offshore Indonesia and the Gulf of Mexico, he explained, it is being used to:

- boost LP gas pressure to a higher value
- prevent flaring of VLP gas
- eliminate intermediate compressors
- de-bottleneck compressors
- lower pipeline pressure in manifolded system
- boost production from LP wells
- enable well de-liquification

- prevent LP wells back-out
- prevent HP gas wells imposing back pressure on LP wells
- lower separator pressure to increase oil/gas production
- reduce pipeline liquid build-up.

Each gas and oil field example highlighted an impressive list of production and bottom-line benefits enabled by the surface jet pumps.

The talk concluded with a discussion of how the advanced technology design has addressed potential issues such as turn-down, control, noise, vibration, safety and maintenance, as well as some simple suggestions on how to identify potential surface jet pump applications within existing and future processes offshore and onshore..



The many possible locations* of surface jet pumps

At the wellhead	Between compressor stages
At the manifold	Upstream of a pump
At the transportation line	Upstream, inlet of a separator
From the re-cycle line of compressor	Downstream, at the outlets of a separator (production/test)
Downstream of compressor	Upstream of compressor suction line
At pipe connections	
At the by-pass line	

* Location is in most cases dictated by site conditions

'The current state of shale gas and its relevance to Europe'

Following a busy networking buffet, Chris Rachwal, Principal in Geosciences and Business Strategy at Gaffney, Cline & Associates, provided a fascinating and wide-ranging insight into the European and North American shale gas market.

After pointing out that the main shale gas plays in Europe are in Poland, Germany, Austria, Ukraine, Holland, Sweden, the UK, France, Bulgaria, Romania, Hungary, Spain and Portugal, Chris discussed in more detail the current 'hot spot', Poland, where the classic 'land grab' is now complete, with 40,000 km² leased in less than four years; more than 20 wells due to be drilled between 2011 and 2013, and where the economic drivers include favourable European spot gas prices and secure supplies.



Recognising the ability to reduce well/frac costs to near-US levels is a key target for the industry in Europe, he said.

Turning to the UK, where the shale gas industry is still in its infancy, he described the main age-constrained

potential shale gas plays and said that significant challenges face the industry in the UK, including issues such as the small-scale earth tremors which followed the first fracking operations, in Lancashire, earlier this year.

He then touched on the topic of core data, explaining that there is a large quantity of shale cores stored in Eastern Europe, a great deal of which is in very good condition. This is a valuable resource and, along with log data, is the key to unlocking possible shale gas sweet spots. He said that the current practice is to ship core to the USA for analysis, and that this provokes lively debate regarding integrity of the samples and results among European experts.

The next part of the talk focused on the shale model description and looked at the reservoir parameters, the varying lithologies and in-situ conditions, and the geological aspects that need to be considered in shale gas evaluation.

Finally, Chris discussed current trends in the North American gas market place, highlighting the fact that it is a "glutted market". US 2011 shale gas production is estimated at around 12 trillion cubic feet of gas, which he said was "absolutely staggering at a time of falling gas prices" (the gas price in the UK is currently nearly double its US counterpart).

Addressing the question 'Will shale gas feed export markets?' he explained: "Either we go out and do it ourselves, or North American shale gas is going to come to us as LNG – it's a big enough market."

"There is a new tidal wave of people going to North America to look at the intricate technologies in use and how to exploit shale gas economically. Transferring all these technical skills back across the Atlantic is going to be a challenge for the SPE and for operators alike."

Pdfs of both London presentations are available for download from the London Section Past Events section at: www.spe-uk.org

SEPTEMBER TECHNICAL PRESENTATIONS



Improving recovery factors in the North Sea



Two weeks before BP announced its £4 billion, highest-ever level of annual investment in the UKCS, Dr John Bunney, BP Magnus Field Reservoir Team Leader, gave SPE Aberdeen members attending the Section's September evening meeting a tantalising glimpse of positive things to come, with an upbeat presentation on the company's resource-led strategy to maintain its strong incumbent position in the North Sea with a new programme of six major field redevelopments and green field projects.

Sustaining production over the next decade in the North Sea will require a combination of known discoveries being tied back through existing infrastructure, and the recovery factor on current fields being pushed towards technical limit, he explained.

"We will be improving recovery factors across our portfolio, through technical limit seismic imaging to see where the remaining hydrocarbons are, by changing the pore-scale recovery mechanisms within the reservoir, and by redeveloping major infrastructure to extend field life."

Key to the strategy's success will be the integration of subsurface description with operational activity, ie depletion planning. Integrated depletion planning will optimise infill drilling, wellwork and effective reservoir management, and, in more detail, will involve:

Describing the habitat of the remaining hydrocarbon through:

- Technical limit seismic imaging
- Forensic reservoir description
- Accurate description of historical drainage and sweep

Applying appropriate recovery mechanisms for later field life:

- Modifying pore-scale process through enhanced oil recovery (EOR), eg WAG, polymer
- Depressurisation (blow-down)

Ensuring the facilities are fit-for-purpose and have appropriate life, considering:

- Increased water and gas handling; changing fluid chemistries (H2S).

John then took his audience on an enlightening whistlestop tour of some of BP's planned major projects, discussing the Magnus Field's ongoing redevelopment to maximise the recovery factor; Andrew's satellite tie-backs to unlock deep gas recovery; the FPSO replacement for the second phase of Schiehallion Field life; the replacement of the Valhall platform to sustain another 40 years of production, and options to extend field life and maximise recovery in the Foinaven Field.

He acknowledged that the company faces a number of challenges in executing its strategy. One of these is how to maintain wellwork and drilling activities on ageing infrastructure in the face of significant personnel on board requirements for integrity and obsolescence projects. Another lies with bringing third party opportunities across BP infrastructure, where challenging brown field modifications are required.

However, he added that some projects are already progressing successfully, including BP's Devenick subsea tie-back to Marathon Oil's Brae Field, which, when it comes on stream in 2012, is expected to supply up to three per cent of the UK's gas needs.

The SPE Aberdeen meeting was kindly sponsored by BP.

Five good reasons to celebrate

SPE Regional Award winners Clara Altobelli and Arnaud Mille are pictured with SPE London Chair Stuart Girling (left), at the Section's evening meeting in September.

Arnaud, a former stalwart of the SPE London Young Professionals and currently Board Secretary and Membership Chair, was presented with the Outstanding Young Member Award, which recognises "contributions and leadership to the public, the community, the SPE and the petroleum engineering within the region".

Clara, a former Section Chair and current long-standing Chair of the Continuing Education Committee, received the Regional Service Award, which "acknowledges exceptional contributions to the SPE at the section or regional level and recognises singular devotion of time and effort to the programmes and development of the member's section and region that set it apart from the services rendered each year by many members of the Society".

Missing from the photograph is Professor Matt Jackson, TOTAL Chair in Geological Fluid Mechanics at Imperial College London, who received the SPE Regional Distinguished Achievement Award for Petroleum Engineering Faculty. This award recognises "superiority in classroom teaching, excellence in research, significant contributions to the



petroleum engineering profession and/or special effectiveness in advising and guiding students".

Two further SPE awards – for Most Improved YP Section and Most Innovative Section – were later presented to those representing SPE London at ATCE 2011, in Denver, USA (30 October – 2 November).

'See it here first!' at Europe's premier well intervention forum

'Ensuring a North Sea future through well intervention'

Breakthrough technologies in the well intervention sector will be very much to the fore this month, at the 17th SPE ICoTA European Well Intervention Conference (Aberdeen Exhibition & Conference Centre, 15-16 November).

A packed programme and larger-than-ever sellout exhibition await delegates attending the popular annual event, which encompasses the full range of well intervention practices including coiled tubing, slickline, e-line, LWI and hydraulic workover, as well as specialist tools and solutions.



"This year's event has a strong focus on the exciting new technologies that are emerging into the market," says event Chairman Callum Munro. "For example, we have presentations on fibre optic data collection services, coiled tubing camera technology and composite coiled tubing, as well as on ultrasound logging technologies, conductive slickline and well integrity diagnostics technology."

The keynote speech, delivered by Stuart Brown, Shell Global Well Intervention Theme Lead, will also have the benefits of new technology as its theme.

On 14 November a pre-conference short course, 'Unconventional Reservoirs', led by Cameron Laing, of Laing Engineering & Training Services, will set the scene for the event and introduce a series of topics related to modern reservoir development and leading-edge technology.

During the main event, exhibitors will once again have the opportunity to share company information and discuss career opportunities with local Careers Teachers, who will be given a tour of the exhibition by volunteers from SPE Aberdeen's Schools Career Guidance Committee.

This year, for the first time, the conference presentation abstracts can be previewed online at: www.spe-uk.org (Aberdeen Events). Delegate places can be booked online at: www.rodgerandco.com



The SPE ICoTA Well Intervention event is an excellent event for us to show our products and gain some insight into

how we should be responding to evolving market needs. The focused technical programme attracts delegates who are important decision makers or influencers in their field – the kind of people that we need to be aware of our products and services. Past events have been good for us and we now look upon this as the annual showcase for the safety and training products we have specifically designed for supporting well intervention. We have high hopes that this year will again be good. Oh – and AECC does serve exceedingly good desserts!

Bruce Adam, Marketec

TECHNICAL EXPERTS WANTED!

SPE Aberdeen's Continuing Education (CE) Committee is calling for new members with a special interest in the following topics:

- Understanding and exploiting unconventional gas reservoirs – geological challenges, environmental aspects and fracturing technology
- Vessel-enabled platform maintenance, well intervention and abandonment operations.



"We're looking for volunteers who can share their knowledge and experience with our Technical Committees, with a view to running focused events on these topics," says CE Committee Chair Michael Heaney.

He adds: "Being a CE volunteer brings interesting new opportunities to network with

other oil and gas experts, to give something back to the industry, and to learn more about your subject through selecting topics and new technologies for presentation at our events.

"It is not an onerous commitment, as professional support is provided by the experienced team at SPE Aberdeen's event management company, Rodger and Co."

If you are interested in helping the CE Committee to develop these new technical events, please contact Jane Rodger: spe@rodgerandco.com; tel: + 44 (0) 1224 495051

EuALF 2012 European Artificial Lift Forum

22-23 February 2012, Aberdeen

In a maturing North Sea environment, artificial lift is essential to maximising returns. With a vast number of depleted and high watercut wells, the potential for production gains is significant. The biennial EuALF is a well-established forum for artificial lift professionals organised by SPE Aberdeen Section. The two-day conference programme is accompanied by an exhibition of cutting-edge artificial lift technologies and services. Chairing the EuALF Committee will be Chris Wrighton, of Shell, and the keynote speaker will be James L House, Regional Vice President & Managing Director of Apache North Sea.

To reserve an exhibition stand or sponsorship, please contact: Rodger and Co: spe@rodgerandco.com, tel: + 44 (0) 1224 495051, or visit: www.rodgerandco.com.

SPE SMN 5th European Sand Management Forum

21-22 March 2012, Aberdeen

SPE Aberdeen Section and the Sand Management Network have developed this forum in response to the increasing awareness of sand production issues and the economic management of sand. It has grown in response to industry needs and developments, and the European Sand Management Forum is now a well-established event for knowledge-sharing and networking. Our Committee Chairman is Tim Podger, of NOV Merpro.

The Forum will also offer opportunities for exhibiting and sponsorship, as well as participation in a one-day pre-conference workshop. Please contact the organisers for details.

Please contact the event organisers to reserve an exhibition stand or sponsorship. Contact details as above.



SPE London Section Continuing Education Seminar

INTRODUCTION TO EXPLORATION & PRODUCTION

Thursday 17 November, 9.00am to 5.00pm
Geological Society, Piccadilly, London W1

This seminar is aimed at people working in an E&P environment, who are new to the industry and/or would benefit from a basic understanding of exploration and production processes and the key elements that make up oil and gas projects.

Attendees will see a series of presentations by industry and academic specialists covering key petroleum geoscience and engineering disciplines. Presentations will be at a basic level and attendees will develop a good overall view across all key upstream disciplines.



SPE members are encouraged to invite support staff from their organisations as a means of raising their general awareness of the industry. The seminar is suitable for people in, for example, technical, financial, human resources and administration functions.

Introduction and global context
Petroleum geology, geophysics and petrophysics
Reservoir engineering
Drilling and completions
Environmental impact
Surface facilities
Production engineering
Petroleum economics

Tickets:

£210 for members, £240 for non-members (incl VAT & lunch). 10% discount for bookings of 5 or more from one company

Booking:

Secure advance booking at www.katemcmillan.co.uk or contact Kate McMillan on telephone 07736 070066 or email Katespe@aol.com – Early booking is strongly advised

SPE LONDON LAUNCHES MAJOR ANNUAL CONFERENCE AND EXHIBITION

By Thijs Kuiper, Past Chair and Steering Committee member

SPE London has a track record of successfully running a programme of evening technical events and continuing education seminars that serve the London Section members in developing their knowledge and providing professional networking opportunities.

To strengthen our programme of events for our members and others involved in the oil and gas sector in the London area, the Section is proud to launch the two-day **SPE London Annual Conference and Exhibition** at the prestigious locations of Savoy Place and Savoy Hotel.

Industry interest has been very positive for this new event and the Committees involved in the oversight, programme, sponsoring and marketing are staffed and on track to deliver a quality event. We are targeting more than 300 delegates with two parallel sessions each day.

The Conference and Exhibition will be combined with two social events: a Networking Reception and Exhibition, and a formal Gala Dinner in the spectacular Savoy Hotel Ballroom, so that conference delegates can invite their spouses, partners or colleagues to end the event in style.

SPE London Annual Conference and Exhibition Agenda

'Managing Risk and Adding Value throughout the Upstream Oil and Gas Life Cycle'

Each day will start with a prominent keynote speaker and then two parallel sessions will be held.

27 June, 9.30 – 17.00, Savoy Place **PRE DEVELOPMENT FOCUS:**

- 'Ready to Drill?' Exploration and appraisal strategies, value of information, risk management and programme sequencing. How to add value in this phase
- 'What's it Worth?' Company valuations from the broker, investor and operator perspective
- 'Exploration Hotspots - Case Studies, Area Deep Dives and Niche Players'

17.00 – 20.00 Evening Social Event or Networking Reception and Exhibition.

28 June, 9.30 – 17.00 **DEVELOPMENT FOCUS:**

- 'Mega Developments': case studies, industry benchmarking and the EPC companies' perspective
- 'Future Developments and Unconventional Resources': trends and impact
- 'Reservoir Management, Asset Optimisation and Re-developments': case studies, niche players and their strategies, surveillance for decision-making and asset optimisation

18.00 onwards Gala Reception and Dinner at the neighbouring Savoy Hotel.

Other events for for 2012:

22 March 2012 (9.30 – 5.00)

Careers Seminar and Recruitment Fair

Take time to look at your career development, how to succeed and have the career you deserve – presentations, workshops and networking opportunities.

Location: Geological Society, Piccadilly

19 April 2012 (9.30 – 5.00)

Oil and Gas Environmental Seminar

Environmental concerns can make or break a project and a company! You cannot afford to ignore the issues, so come and learn how to manage your project and the environment effectively.

Location: Geological Society, Piccadilly

17 May 2012 (9.30 – 5.00)

Women in Energy Annual Seminar

This will be the sixth annual seminar and its popularity continues to grow! Location: To be confirmed

New YP Committee lineup for SPE Aberdeen

By Sankesh Sundareshwar, Committee Chair

YP FOCUS

SPE Aberdeen Young Professionals are delighted to announce our new Committee for the 2011-2012 session.

This comes on the back of a very positive session in 2010-11, during which we explored various facets of Carbon Capture and Storage and Petroleum Economics, and held a very inspiring DEVEX Workshop on effective leadership and its different aspects, as applied in challenging circumstances.

We would like to express our gratitude to our sponsors Enquest and

Shell for helping us to organise many successful events last session. Our special thanks go to Simon Richards, of Enquest, and Cees Vollaard, of Shell, for all their encouragement.

The upcoming session will include a variety of technical, networking, student development and social events, and started with a swing at our recent SPE Annual Bowling event.

The SPE Aberdeen YP Committee

NAME	COMPANY	POSITION
Sankesh Sundareshwar	Bluewater Services UK	Chair
Lola Ajagbonna	Rushmore Reviews	YP Secretary
Alex Nappez	Nexen	Media Manager/ YP Website Manager
Folawole Sanwoolu	Shell	YP Events Coordinator
Jai Chainani	Chevron	YP Student Development Coordinator
Graham Dow	BP	YP Student Development Coordinator
Oludare Elebiju	Wipro	YP Schools Career Guidance Coordinator
Ashwini Bhagwat	Wood Group PSN	Technical Events Coordinator
John Costaschuk	BP	YP Student Development Coordinator
Michael Dimude	BG	Media Manager
Wonuola Scott	Rushmore Reviews	YP Website Manager
Atul Bhaduria	SLB	Technical Events Coordinator



SPE Aberdeen YP Committee members (l-r): Wonuola Scott, Qiong Zhang, Alex Nappez, Lola Ajagbonna, Graham Dow, Sankesh Sundareshwar, Ashwini Bhagwat, Franck Kadio, Jai Chainani.

RECRUITMENT



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Fairfield's vision is to be a UK independent of substance and, with a bolstered organisation, clear and focused plan and new capital investment, is well positioned for success. Fairfield's people are vital to the realisation of the Company's vision and can expect rewarding and fulfilling careers.

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If you would like to play a part in the realisation of Fairfield's vision, please e-mail:

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For further details on specific opportunities visit:

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Fairfield Energy is a forward-thinking and innovative upstream Oil & Gas producer focused on the exploration, appraisal and development of hydrocarbon accumulations in the North Sea.

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FairfieldEnergy



Varun Sharma



Enyi Orji,

60 Seconds with a Young Professional

This month we re-launch our occasional feature with contributions from SPE Aberdeen and London YP members.

Name, job title, company and location?

Varun Sharma, Manufacturing Engineer, Schlumberger, Stonehouse, UK

Enyi Orji, Reservoir Engineer, Hess, London

Where were you educated? Your qualifications?

VS: I did my Bachelor in Mechanical Engineering at Thapar University, India, and completed my Masters in Industrial Engineering from Rutgers University, USA.

EO: MSc in Petroleum Engineering, Imperial College London; BEng in Mechanical Engineering, Liverpool University.

Why did you join the industry?

VS: Having a background in Industrial Engineering, I was interested in Supply Chain and that is where I started my career with Schlumberger. Now, having worked in different roles ranging from Supply Chain to Manufacturing and Operations, I have come to love the complexity and challenges the industry has to offer.

EO: I am Nigerian and the oil industry is a major contributor to the economy. My dad worked in it, and I have always been interested in the Engineering sector.

What do you like most about your job and what would you change?

VS: I like having the opportunity to work in a multi-cultural environment, across the globe, with the top end of technology, in a dynamic work environment. I would change the speed at which changes are accepted and implemented.

EO: I love the variety of projects I work on and the constantly challenging environment. I would allow for greater flexibility in working hours/locations.

What has been the best moment of your career so far?

VS: Working offshore in the North Sea in some of the toughest drilling conditions was the most exciting period of my career. It made me understand the realities of the oil industry, especially since I'd come from a shop floor environment.

EO: Working in a Project Team and putting forward a technical case that was elevated to the Company Board and subsequently approved.

What kind of future do you think the industry faces?

VS: I think the industry is looking at challenging times ahead in terms of industry growth and development of new technologies, in the light of the recent events that have negatively impacted the economy, environment and political situations across the globe.

EO: A challenging future, dealing with the environmental image of the industry, when you consider fracking, and exploring in the Arctic. Also, in accessing reserves in countries with large resources, but with risky political and fiscal regimes.

How do you like to spend your leisure time?

VS: Playing any outdoor sports, which lately has been replaced with spending all my time with my baby daughter, Rhea.

EO: I love almost anything fitness related (except running)!

What makes you angry?

VS: Resistance to change.

EO: Failing to accomplish something that was attainable, and casual strollers on the Underground.

What makes you happy?

VS: Continuous and sustained commitment from industry leaders to make the workplace safer for everyone.

EO: Socialising, engaging with people, and spending quality time with people close to me.

Who inspires you? Why?

VS: Paal Kibsgaard, CEO of Schlumberger. In a short career of 14 years, he has risen from the level of an engineer to the highest echelon of the biggest service company in the industry.

EO: Richard Branson. I love his charisma, personality, and business acumen.

What value does the SPE offer you and how do you contribute?

VS: SPE acts as an unlimited resource to industry professionals, with a willingness to share experience and knowledge.

EO: The SPE offers me a platform for knowledge and information sharing, as well as great networking opportunities. I contribute through heading the London YP Technical Committee.

What is your dream job?

VS: A job that leverages my natural skills, challenges me to grow professionally and personally and which at the end of the day makes me feel like I have made a difference however big or small.

EO: CEO of my own oil company.

Talented pupils demonstrate Aptitude for Engineering

Pictured are two of the inaugural winners of SPE London's new Aptitude for Engineering Award, aimed at encouraging talented sixth form students to think about Engineering as a career choice.



Calvin Mann (left) from Tiffin School, Surrey, and Sam Walker from Manchester Grammar School, were among 11 pupils nominated by their schools, who each received a £40 book token for innovative projects completed during the 2010-11 session.

Calvin won the award for his outstanding

contribution to a Physics class project to build a loudspeaker system from everyday materials. His in-depth research of LC circuits enabled his team to build a crossover for the speaker system which significantly improved the sound quality.

Sam, who received his prize from political journalist Michael Crick, is described by Dr PJ Holt, who teaches him Oxbridge Physics, as *"a highly motivated and mathematically gifted student, who has the potential to excel as an Engineer."* Mr SJF Hunt, Head of Physics at Manchester Grammar, adds: *"We send a good handful of engineers to universities each year, but as a school there is no traditional subject prize that celebrates their chosen path. The SPE prize has afforded a welcome opportunity to highlight one of this year's most promising candidates."*

All the award winners have also been invited to apply for the SPE STAR Scholarship/Fellowship, funded by SPE International, in Richardson, Texas.

SPE London would like to invite members to nominate schools of their choice to be considered as participants for the 2011-12 Aptitude for Engineering Awards.

Please contact katespe@aol.com with a short paragraph about your chosen school and why you think it should be selected.

Imperial College London PhD Scholarship Awards



Imperial College London Student Chapter member Rehab El-Maghraby is the winner of the 2011 John Archer Scholarship, awarded in memory of the University's first Professor of Petroleum Engineering and former Deputy Rector.

Originally from Egypt, Rehab is in her third year of a PhD investigating capillary trapping with application to carbon dioxide storage. She has performed a series of challenging and innovative core flooding experiments using super-critical CO₂ and has already published some of her work in Geophysics Research Letters. She is currently studying the behaviour of carbonate rocks.

Also pictured are Professor Martin Blunt (second from left) and the winners of the Imperial College London Aramco Scholarship – PhD students Nick Holgate (far left) and Nikolas Michail. Nick is studying the sedimentology and sequence stratigraphy of Upper Jurassic, shallow marine deltaic deposits in the Northern North Sea, while Nikolas is investigating the connections between the release of sediment by erosion of mountainous regions and its transport and deposition in neighbouring basins.

FORTHCOMING EVENTS

LONDON

- 29 November (5pm-9pm) (Before dinner): 'The new operating environment: how are we doing?', Dr Peter Rowley (ERM UK Ltd)
(After dinner): 'Case histories of life cycle well integrity management', Ged Lunt (Intetech Wells Ltd)
 - 17 November 2011: Introduction to E&P
 - 8 February 2012: London YP Technical Seminar: 'The Unconventional revolution: from an emerging resource to a core business'
- VENUE FOR ABOVE EVENTS: Geological Society, Piccadilly, London
- 10 November 2011: SPE YP London Technical Event on 'SCAL'
- VENUE: 9.30am Weatherford Laboratories, Unit 28, The Birches Industrial Estate, East Grinstead, West Sussex

For details of all SPE London events, visit: www.katemcmillan.co.uk and www.spe-uk.org 'London Events'. If you would like to sponsor an SPE London event, please email TKuiper@chevron.com

ABERDEEN

- 23 November: 'UK Response to the Macondo Gulf of Mexico Oil Spill', Paul Dymond (Oil and Gas UK)
VENUE: 6.30pm Douglas Hotel, Market Street, Aberdeen
- 14 November 2011: SPE ICOTa Pre-conference Workshop – 'Unconventional Reservoirs'
- 15-16 November 2011: 17th SPE ICOTa European Well Intervention Conference – 'Ensuring a North Sea future through well intervention'
- 22-23 February 2012: SPE European Artificial Lift Forum – EuALF 2012
- 21-22 March 2012: SPE SMN 5th European Sand Management Forum
VENUE FOR ABOVE EVENTS: Aberdeen Exhibition & Conference Centre

EDINBURGH

- 9 November: 'Production optimisation: how can we get more oil?', Sandy Williams (ALP Limited)

VENUE: Edinburgh Conference Centre, Heriot-Watt University, Riccarton

For details of all SPE Aberdeen and Edinburgh events, please visit:
www.spe-uk.org 'Aberdeen Events' or contact Rodger and Co
(see page 6)

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CALL FOR NOMINATIONS
FOR THE 2012 OFFSHORE
ACHIEVEMENT AWARDS

Nominations are now open for the prestigious **Offshore Achievement Awards**, sponsored by **TAQA Bratani**. Entries are now open to UK registered companies, and, reflecting the growth reach of the North Sea industry, will be open to offshore renewables companies as well as traditional oil and gas players. As well as recognising exceptional business growth, the awards will focus in on particular innovations, safety breakthroughs and collaborative efforts contributing to ensure the UK remains at the forefront of the international energy scene. Individual success will also be highlighted through the Rising Star and Lifetime Achievement Awards.

Offshore Achievement Awards - the premier forum to celebrate the very best of the offshore energy industry. Be part of the celebration and nominate now!

Nominations close on 19 December. For more information, visit www.spe-oaa.org

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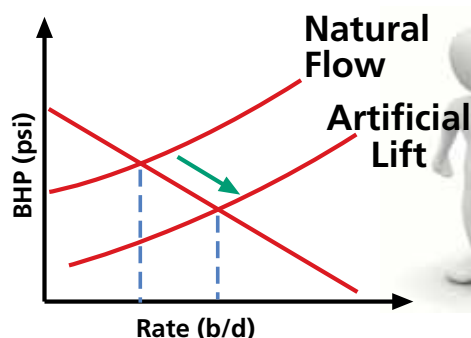


Aberdeen Section

www.spe-uk.org

EuALF 2012

European Artificial Lift Forum



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conference programme
and latest information.

- Lifting Production

22nd & 23rd February 2012

**Aberdeen Exhibition &
Conference Centre, Scotland, UK**

In a maturing North Sea environment, artificial lift is essential to maximising returns. With a vast number of depleted and high watercut wells, the potential for production gains is significant.

The biennial EuALF is a well-established forum for artificial lift professionals organised by the Society of Petroleum Engineers Aberdeen Section. It's a successful event that has spun-off worldwide. The two-day conference programme is accompanied by an exhibition of cutting-edge artificial lift technologies and services.

Come along to learn about

- What's new in artificial lift?
- Experience and case histories
- Reliability and performance

Pre-Conference Workshop Tuesday 21st February

Artificial lift systems selection, operation, design and optimisation

This one day, optional course, which includes practical design sessions using commercial software, is designed to meet the needs of production and reservoir engineers and operations staff who are, or may be, involved in artificial lift operations or development.

SPE members £130/Non-members £155

"EuALF brings together like-minded industry professionals from operators and service providers. I've always found it to be a great opportunity to share and compare problems and solutions, for the benefit of the industry as a whole."

Chris Wrighton, Shell
EuALF 2012 Chairman

**Conference programme can be viewed
on www.spe-uk.org**