

SPE review

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of the Society of Petroleum Engineers

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Society of Petroleum Engineers

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Outgoing SPE London Section Chair Thijs Kuiper (Chevron), right, welcomes Stuart Girling (Girling & Company) as his successor for the 2011-12 session.

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CELEBRATING SUCCESS!

SPE Aberdeen's annual barbecue in August was a sizzling success, fuelled by the exciting news that the Section had won the global **SPE President's Award for Section Excellence** for the second year running.

The event, at the city's Revolution Bar, brought together students, young professionals and more mature members of the Section in a fun, informal atmosphere and paved the way for the official 2011-12 session launch meeting the following week.

Outgoing Chair Chris Nussbaum and his successor, Masud Javaid, told SPE Aberdeen members: "With competition from around the world so fierce, this achievement is something to be extremely proud of. The honour in receiving the

President's Award reflects most accurately on the efforts of our many committed volunteers and of our professional support staff, who together deliver the outstanding performance that merits this award. Also most deserving of recognition are the many employers who give support to their staff in time and resources to allow them to volunteer with SPE, to great mutual benefit."

SPE London Section was also honoured by a prestigious global accolade – **the 2011 Most Innovative Section Award**, which recognises SPE sections that use new ideas, methods or ways of thinking to improve and grow their Section activities. The Award particularly recognises SPE London's work in organising the Women in Energy Seminars.



The Awards will be presented at SPE's Annual Technical Conference and Exhibition (ATCE), held this year in Denver, Colorado, USA (30 October – 2 November).

SPE review

The Society of Petroleum Engineers (SPE), a not-for-profit professional association of 97,000+ members from more than 100 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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CONTACTS

Communications Management Committee: Miriam Archer, Jonathan Calvert, Mohammad Khan, Gbenga Oluyemi, Ian Phillips

For queries about editorial contributions to **SPE review** or to book advertising space, please contact:

Editorial: Judy Mackie, M&M Media, +44 (0)1224 318088, spe.editor@mmm-media.co.uk

Advertising: Allan Montgomery, M&M Media, +44 (0)1224 318088, spe.advertising@mmm-media.co.uk

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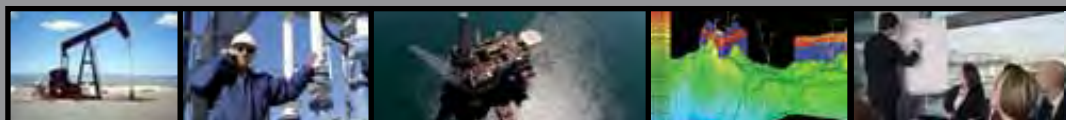
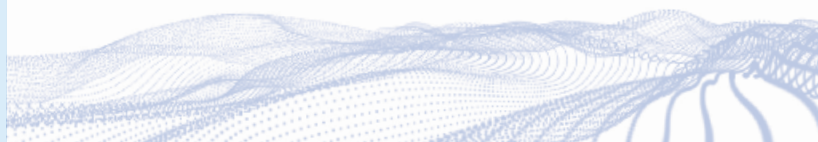
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Boards look forward to a busy SPE session



New SPE London Section Chair **Stuart Girling** is joined on the Board by the following presiding officers:

Treasurer (Chair Elect) – **Renu Gupta**
Section Director (Past Chair) – **Thijs Kuiper**
Secretary and Membership Chair – **Arnaud Mille**
Communications Chair – **Miriam Archer**
Programme Chair – **Tim Lines**
Continuing Education Chair – **Clara Altobell**
Student & Scholarship Chair – **Tony Perry**
Sponsoring Chair – **Mo Mansoori**
Young Professional Liaison – **Stephen Howell**

Stuart, formerly Section Treasurer, says: *"In London we have a strong technical programme of events and Continuing Education seminars, and very active Young Professionals and Student Chapters. I'm really keen to see us build on this success and also to explore how we can engage with schools to help spark an interest in the oil and gas industry at an earlier age. I'm also looking forward to our Section's launch of a major new annual technical conference in London, which is being planned for June, to focus on managing risk and adding value throughout the upstream oil and gas life cycle."*



Meanwhile, in Scotland, **Masud Javaid** (Total E&P has succeeded **Chris Nussbaum** (Archerwell) as SPE Aberdeen Section Chair. Chris now becomes a Section Director and Past Chair. Joining them on the Aberdeen Board are:

Chair Elect (Vice-Chair) – **Anthony Onukwu**
Treasurer – **Michael McCaffrey**
Programme Chair – **David Liddle**
Membership Chair – **Anthony Onukwu**
Career Guidance Chair – **Colin Black**
Student Development Chair – **Shankar Bhukya**
Continuing Education Chair – **Michael Heaney**
Young Professionals Chairs – **Sankesh Sundareswar** and **Atul Singh Bhadauria**
Another Perspective Chairs – **Maria Trujillo** and **Stephanie Nwoko**
Communications Chair – **Gbenga Oluyemi**

"In my role as Chair I aim to continue to raise the profile of SPE in the local energy community and to highlight the excellent technical programmes that we offer," says Masud.

"I also want to ensure, with the help of our Career Guidance Committee, that we continue to provide support to local schools in order to promote the energy industry as a potential career path for the students. Furthermore, through our Student Development Committee, we will ensure that we maintain excellent links with local universities by providing scholarships for students and supporting our SPE Student Chapters in any events they may organise."

TECHNICAL MEETINGS

LONDON

ABERDEEN

London

SPE London's first evening meeting of the session, on **27 September, at the Geological Society, Piccadilly**, will be launched by **Dr Najam Beg, of Caltec**, whose pre-dinner presentation will focus on **'The applications of jet pump technology to increase production from oil and gas fields'**.

There have been a number of recent applications for jet pumps achieving one of the following: revival of dead wells or liquid loaded wells; prevention of flaring LP gas; boosting production from LP oil or gas wells; replacing intermediate compressors; de-bottlenecking compressors, and preventing HP wells imposing back pressure on LP wells. This talk will describe the jet pump system and includes references to several recent field examples.

Najam is Technology Director and co-founder of Caltec Ltd. He holds a number of patents in the fields of jet pump technology for pressure/production boosting of oil and gas fields and inline compact gas/liquid/solid separation technologies. He earned his PhD and DIC degrees at Imperial College, London and BSc and MSc degrees with distinction at Engineering University (Pakistan), and West Virginia University (USA), respectively, all in Petroleum Engineering. He has won several awards for innovation, including the Royal Society Award (1998) for good use of energy using jet pump technology.

Caltec is an innovative company with expertise in jet pump technology and compact separation systems for a range of applications in the oil and gas industry. Caltec was acquired by Petrofac in August 2008 and is now part of the Petrofac production solutions. Petrofac is one of the top EPC companies with worldwide activities.

Following the networking buffet, **Chris Rachwal, of Gaffney, Cline & Associates (GCA)** will talk extensively about the experiences of GCA relating to **'Field development and asset evaluation of unconventional gas resources'**.

Chris is a Principal in Geosciences and Business Strategy with 35 years' experience of contributing to and managing major field studies and

asset evaluations as a consultant and with a major operating company. His specialist areas of interest include value creation within portfolios and during the M&A process, business analysis of shale gas and the application of production technology to improve recovery from known fields.

Gaffney, Cline & Associates is an international consultancy and advisory firm providing integrated technical, commercial and strategic services and independent advice to all sectors of the petroleum industry. With specific reference to unconventional gas, GCA has gained an enviable reputation for the technical and commercial assessment of these increasingly significant resources, having evaluated coal bed methane, coal mine methane, tight gas and shale gas opportunities in the world's major provinces. Such studies have included the assessment of exploration potential, field development planning, resource and reserves estimation and Stock Market flotation documentation.

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 23 September (£19 after).

Aberdeen

SPE Aberdeen's evening technical presentation, on **28 September, at the Douglas Hotel, Aberdeen**, will focus on the subject of **'Improving Recovery Factors'** and will be presented by a speaker from BP. Details of the speaker were not available at the time of print, but will be published in early course on the Aberdeen Events web page at: **www.spe-uk.org**.

LONDON

Award-winning London YPs achieve global honours – on two counts!

Building on the Honourable Mention achieved last year, London YPs took a step further this year with two global awards in the form of Most Improved YP Committee, and a Global YP Award for former London YP, Arnaud Mille, who has been working between London YP and the SPE London Board for the last year since he stood down as YP Chair in August 2010.

Laura Pickering, SPE Young Member Programs Coordinator, was clearly delighted to see the London YPs step up again this year: *"It is great to see that a YP committee within a Section that has been established for 40 years has won this award. The industry is always changing and it is fantastic to see the London YP Committee moving with these changes. Melissa Schulte, Young Member Programs Manager, and I, would like to take this opportunity to congratulate you all and thank you for all your hard work."*



Highlights for the year included: the inauguration of the SPE YP European Technical Series, which London hosted in the form of a Carbon Capture and Storage seminar; the first ever collaboration with PESGB UK YP to host the House of Commons Energy Panel Session with high profile UK Government and Energy Industry personalities, and a new Ambassador Lecture Programme with the University of Leeds, in addition to their existing University Liaison Programme.

The AGM took place courtesy of Petroleum Services, Deloitte, at their Central London offices, on Saturday 13 August, where a new Committee was elected. After succeeding in taking SPE YP London through one



further evolution of growth and success as Committee Chair and three years of service to SPE London, Alejandro Primera (Schlumberger) has moved to take on new projects within SPE.

The YP Committee this year has grown to a record 25 members and is led by Chair, Stephen Howell (BG Group), and Vice Chair, Ernesto Addigeo-Guevara (BP). Carlos Chalbaud (GDF Suez) is Secretary and Omotayo Soyemi (Schlumberger) and Andrew Freear (Centrica) are Treasurer and Vice-Treasurer, respectively.

A special thank you goes to Alejandro Primera, whose drive, enthusiasm and new approach to committee organisation has acted to empower and inspire many within the Committee to do more. Alejandro's leadership has been pivotal to the success of the Committee within the last year. Special thanks also go to SPE YP London's outgoing Programme Director Alessandro Pozzi (Barclays Capital) and Membership Officer Rajkamal Srivastava (Deloitte), who have served the Committee tirelessly in recent years.

The Committee would like to welcome all new YP members for the 2011/12 session.

Full details of the new organisation are available on the SPE YP London website:
<http://www.spe-uk.org/London%20Section/About-Us.htm>.

'The Unconventional Revolution: From an Emerging Resource to a Core Business' – Call for Abstracts

The London YP Committee is seeking abstracts in the following areas related to Unconventional Resource Development:

- Exploration and appraisal of unconventional reservoirs
- Development and production of unconventional oil and gas resources
- European unconventional oil and gas
- Unconventional reservoir technologies (steam-assisted gravity drainage, sweet spot identification, multilaterals/long horizontal wells, and stimulation techniques)
- Environmental impact
- New global unconventional plays
- Impact of unconventional reservoirs on the future of a Young Professional.

The event is scheduled for Wednesday 8 February 2012, and you should be prepared to present your abstract in more detail on this date.

The deadline for submission is **Tuesday 14 October**.

Email your abstract to: yplondon@spemail.org

Please note: the SPE YP London Committee is seeking abstracts from students, YPs and more experienced professionals. The Committee is delighted to announce Oilfield Production Consultants (OPC) Ltd as an Early Event Sponsor for this event. There are still sponsorship opportunities available for this event. Please write to: yplondon@spemail.org for more details.



Remote Open Close Technology Takes Hold



Remote Open Close Technology is allowing Operators to work differently and approach interventions and completions in a new way by cutting rig time while improving health and safety standards.

UK headquartered Red Spider has invested heavily in R&D and has also worked closely with industry bodies such as ITF and some of the major operators to develop a range of equipment – initially with an eye to well interventions but increasingly with a focus on completion work.

The company's breakthrough Remote Open Close Technology product was eRED® - a downhole computer controlled valve that can be opened and closed by remote control, without the need for intervention or control lines, saving time, money and

removing risk from completion and workover operations.

To date, the eRED has enabled 14 worldwide operators on 25 different fields to save up to \$900,000 during a single subsea completion operation, typically reducing slickline runs from eight to one. In subsea workover operations, savings of up to 36 hours and \$800,000 have also been recorded in a single job.

In practice eRED works exactly like a wireline plug, but without requiring any intervention to deploy or retrieve the plug when a barrier needs to be put in place or removed. Any application where a wireline lock and plug is used can be replaced by an eRED, achieving exactly the same results without repeated interventions, reducing costs and removing all the associated risks.

Further customer requests, followed by investment in extensive R&D resulted in two new products for 2011, the eRED-FB and PowerBall.

eRED-FB is the tubing mounted version of the field-proven eRED. It consists of a full-bore ball valve which can be remotely opened and closed multiple times, controlling flow through the tubing without the need for any well intervention or an umbilical control line.

The use of eRED-FB completely eliminates slickline intervention from completion operations, resulting in savings of up to 32 hours and the removal of all associated risks in subsea scenarios. Moreover a mechanical downhole barrier is permanently present during the completion operation, which can be remotely activated at any time.

PowerBall is an intelligent reservoir isolation barrier designed specifically to cope with well debris above the closed ball. Using eRED technology, it provides the maximum reliability for re-opening without the need for any intervention or multiple pressure cycles. It can operate in any type of well, including cased and open-hole wells.

Remote opening of PowerBall happens with no pressure cycles, but on detecting a specific trigger much as with the eRED, resulting in a much more flexible and quicker operation. Savings of up to 12 hours and \$250,000 can be achieved thanks to the quick activation method of PowerBall.

eRED and its Remote Open Close Technology family are particularly suited for deepwater and subsea applications where the rig time savings are most valuable so there is a huge potential for these products in the North Sea and internationally in Brazil, Gulf of Mexico, West Africa and Asia-Pacific. ■



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Aberdeen YPs discover more about industry economics

As part of their Discover Series, the SPE Aberdeen Young Professionals attended an introductory session to the theory and practice of economic modelling of upstream projects, led by Gerardo Arteaga, of Centrica Energy.

Gerardo kick-started the evening by putting into context the area of petroleum economics and providing examples of the instances when companies need to perform economic modelling to support decision-making in Upstream matters. By means of a quick exercise, he then proceeded to explain the concept of net cash flow and how specialists attempted to forecast such variables throughout the different phases of an oil and gas project.



Gerardo discussed with the YPs how their different disciplines and roles were responsible for providing several of the inputs required to forecast the cash flows of petroleum projects, before moving on to a series of exercises that involved calculating the total pre-tax and post-tax net cash flow for a hypothetical upstream project. As the presentation progressed, the YPs learned of the time value of money and how they could express cash flows in undiscounted and discounted terms and thus determine the net present value of a project – an indicator used for investment appraisal. Finally, it was discussed how inflation affected future cash flows and how its effect could be removed in order to specify the value of a project in real terms. Reference books and providers of training on economic modelling were recommended.

Throughout the session, Gerardo described his background in engineering and operations and how this had been very helpful in his later roles as Petroleum Economist and now Business Development Executive.

Early feedback from the YPs in attendance was very positive and it was discussed that a follow-up session on this subject would be welcomed.

The aim of the YP Discover Series is to improve the technical skills of young professionals in areas they may not be exposed to on a day-to-day basis, by means of introductory lectures and workshops.

One of the component themes is Business and Sustainability, intended to raise awareness of: the financial and commercial work required in our industry; the legal, fiscal and regulatory framework in which oil companies operate in different jurisdictions, and the impact our activities as an industry have on the communities where we operate.

If you have relevant experience on a related topic and wish to lead a session, please contact Gerardo Arteaga at: gerardo.arteaaga@centrica.com



FAMILY GATHERING

SPE Aberdeen's last meeting of the session was a real family affair for Section member and Director/Owner of Geoprobe Drilling, **Tony Bamford**, who brought along his three sons, **Tristan** (far left), **Nick** (who works with Tony) and **Ben** (far right).

Presentation report – page 8.

RECRUITMENT



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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.

www.imperial.ac.uk/cpd/peteng

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SPE Aberdeen gains insight into step change casing and completion technology

SPE Aberdeen members and guests were brought up to speed on the latest technology for running tubulars, at the final meeting of the 2010-11 session, at the end of May.

John Prescott, Marketing Manager for Deep Casing Tools, demonstrated how a step change in down hole tool solutions has been brought about in response to a variety of industry challenges within the key areas of liner requirements for extended reach wells, complex completions, and well construction.

He explained that the characteristics required of the new-generation down hole motor technology were that it should: produce no vibration or pressure spikes; have the ability to work with low pressure differentials and low flow rates, and be easily drillable in well construction applications.

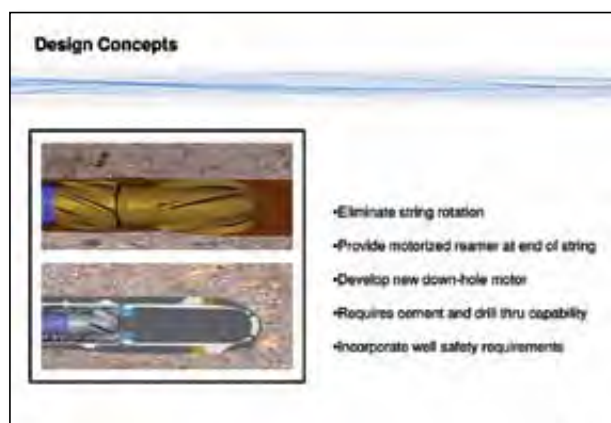
After talking his audience through the design concepts (see opposite), John discussed the test and evaluation phases during which turbine technology was selected for its higher speed, lower torque and smooth operation. He explained that the turbine power is proportional to the number of rotor-stator stages, and to mud weight, flow rate and geometry, and that it can be simulated by computational fluid dynamics. This was proven by a Dynamometer performance test of the prototype casing and completion tools. The prototypes also underwent drill-through and run life testing which proved their dramatically faster drill-



through time and a run life that exceeded requirements by more than 10 and 40 hours, respectively.

Introducing each solution tool in turn, he explained that the key features of the new Turborunner™ completion tools include: a high-speed reaming device, protection of the completion from vibration; a low flow-rate low pressure capability; integration with complex completion systems, and the characteristic, on stall, to drop pressure and avoid setting components. The Turbocaser™ casing tools feature: a high-speed reaming action; small PDC cutting elements; a burst disc allowing through flow; normal cementation; minimal drill-through time, and optional reamer shoe locking system back-up.

In the final part of his presentation, John discussed the tools' performance in three North Sea applications. In one of these, where a first well was shortened due to hole collapse and a sidetrack also encountered stability and cleaning issues, the 3,000ft pre-drilled 7 5/8" liner, run with a 7" Turborunner™, was washed and reamed for 12 hours at 7bpm max and the liner was landed at target depth, accessing 1,750ft of net pay, which represented a value of \$200 million to the operator.



You can download John's presentation from the Aberdeen Section at: www.spe-uk.org

Women in Energy Seminar confronts the myths and fairytales of career progression

'Having it All' was the ambitious topic tackled by SPE London's fifth annual Women in Energy Seminar, which attracted more than 150 delegates from a variety of business backgrounds. The highly-successful event was sponsored by OPC, Schlumberger, Eclipse Petrotech, Worldwide Worker and Upstream UK.

The full day of seminars and workshops was held at the Royal School of Mines, Imperial College London, on 19 May. Throughout the event, speakers, panellists and participants discussed a range of topics focusing on career progression and the skills and tools that may be necessary or helpful to achieve it.

The first speakers tackled a recurring myth: 'Wonder Women: Fairytale or Urban Reality'. **Emma Fitzgerald**, Vice President of Shell Global retail network, discussed her experience over an 18-year career with Shell, and some of the lessons she learned along the way. **Iman Hill**, Senior Vice President for BG Group Well Risk Management Team and the mother of five children, explained that for her, striving to achieve work-life balance has focused on her will to be a strong, visible parent while accepting that professional drive is a key part of her identity. Both speakers encouraged participants to get out of their comfort zone in order to develop as individuals and professionals, including taking on jobs for which they felt less prepared or roles in which they have no previous experience.

This theme was picked up in the panel discussion on whether 'Nice Girls Get the Corner Office', when **Demos Pafitis**, VP of Engineering at Schlumberger and a member of the Schlumberger gender diversity committee, observed that although his female colleagues regularly asked "Do you think I'm ready?" when offered a promotion, he had yet to hear it from a man.



Jennifer Coconnier-Thomas, Business Career Manager for Total E&P, led discussions on 'Gaining, developing and nurturing women in the energy industry – E&P experience', providing an overview and statistics on Total SA's initiative since 2003 of actively managing its recruitment, development and retention of women working in E&P.

The afternoon workshops included: 'Following your Dream; getting from where you are to where you want to be', led by **Anita Edmonds**, of Penna Consulting; 'Effective Communication Skills', led by **Elizabeth Kuhnke**, founder of Kuhnke Communication and author of international best-seller *Body Language for Dummies*, and 'Achieving the work-life balance', led by **Karen Richards** and **Natasha Cleeve**, of Penna Consulting, which revealed that although often referred to, work-life balance has as many different meanings as there are people discussing it!

*Thanks to **Bunmi Titiloye**, **Ludivine Wouters**, **Michelle Witton**, **Sarah Eastabrook** and **Alexandra Vidrago Rodrigues**, for contributing this report.



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Oil & Gas Professionals



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Qatar Petroleum (QP) is one of the largest oil producers in the world, with the largest non-associated gas fields, Qatar Petroleum can offer diverse experience in complex geological production and exploration environments.

Opportunities exist in Drilling, Well Integrity, Oil Development and Production Operations departments. Hudson, one of the leading recruiting consultancies in the United Kingdom, has been retained by Qatar Petroleum (QP) to source qualified and experienced Oil & Gas professionals for their various operations in Qatar. Vacancies for the following qualified and experienced staff are available:

Senior Wireline Supervisor (DRD)

BSc in Mechanical/Petroleum Engineering or equivalent. Relevant drilling training and courses. 10 + yrs experience in oil field services practices related to wireline and well completion/testing activity and high pressure gas wells.

10 + yrs experience as Wireline Supervisor in a reputed oil and gas company.

Completion Engineer (DRD)

BSc in Petroleum Engineering or related discipline, plus relevant technical courses in completion design, drilling operations, wellhead design and well control.

6 + yrs experience in design and installation of down hole completions for oil and high pressure gas wells, at least two years as a well site engineer.

Drilling Fluid Engineer (DRD)

BSc in Petroleum, Chemistry, Chemical Engineering or a related Engineering discipline, plus relevant drilling industry courses. 10 + yrs experience in Drilling Fluids Engineering including 3-5 years as a rig site Mud Engineer. Mastery in drilling, completion and work over fluid engineering, including design of mud programmes, well bore stability, well hydraulics and well control, good understanding of geology.

Drilling Supervisor (DRD)

BSc Petroleum Engineering or related disciplines. Min 10 yrs in Drilling Operations incl a min of 5 yrs experience as a Drilling Supervisor (Company Representative) at the well site. IWCF Certification at Supervisor level.

Operations Engineer (RIGLESS)(DRD)

BSc Petroleum Engineering or related discipline plus relevant technical courses in completion/drilling operations.

Min of 6 yrs experience in work related to the design, construction and work over of oil and gas wells, including at least two years as a well site engineer.

In depth knowledge of well completion, stimulation techniques, well testing operations and well reentry using wireline and coiled tubing.

Petrophysicist (RFD)

BSc in Petroleum Engineering, Mechanical Engineering or Geology required.

10 + yrs of experience in the Oil and Gas industry, with at least 6 years experience doing Petrophysical studies/operations.

Must have a thorough understanding of open hole (both wireline and LWD), cased hole and production logging tools experience in carbonate reservoirs.

Experience in statistical and pattern recognition techniques (Neural networks, fuzzy logic, and multidimensional histograms) techniques. Experience of CCAL and SCAL techniques.

Interested candidates should forward their CV (in English), quoting the relevant JOB TITLE in the subject line, to: QP-Campaign2011@hudson.com

Regrettably only candidates selected for interview will be contacted.

Senior Completion Engineer (WID)

BSc/BE in Petroleum Engineering or equivalent. 15 yrs as Completion Engineer in oil and gas industry with 10 yrs in oil and gas wells completion and well integrity WIMS - Well Integrity management, MS word, Excel and PowerPoint. Experience in well completion. Experience in Well Integrity investigation and planning, Well equipment, with the ability to produce high level, detailed reports and presentations.

Head of Wellhead Maintenance (WID)

HND/BSc in an Engineering discipline, preferably Mechanical/Petroleum Engineering.

10 + yrs experience in oil and gas industry particularly in operations, incl 5 yrs rig experience together with wellhead installation. High pressure gas wells and metal seal technology experience essential.

Must have: management and motivational skills, negotiation and presentation skills, experience in well corrosion surveillance, familiar with non destructive testing (NDT), corrosion logs and other diagnostics tools.

Senior Wellhead Supervisor (WID)

BSc in Mechanical Engineering or Metallurgical Engineering with API certification in NDT procedures and systems. Min 7 yrs experience in the upstream, downstream oil and gas industry with 5 yrs of proven experience in corrosion/inspection.

Experience in well corrosion surveillance essential, and be familiar with non destructive testing (NDT), corrosion logs and other diagnostics tools. Inhibition plans/chemicals, cathodic protection and corrosion resistant coating.

Petroleum Engineer (RFD)

BSc in Petroleum Engineering, Chemical Engineering, or Mechanical Engineering.

10 + yrs experience as a Petroleum Engineer with demonstrated Surveillance/ Production Engineering expertise in optimizing well production in large oil and gas fields.

Proven experience at recommending remedial well work solutions for horizontal wells in heterogeneous oil reservoirs with variable geo-layer parameters: porosity, permeability, water saturation, thickness, etc. Well testing and allocation of well test/production data, in-depth understanding of production separation equipment, metering equipment & allocation of production data to balance with field meter data.

Reservoir Engineer (RFD)

BSc in Petroleum Engineering, Chemical Engineering, or Mechanical Engineering.

10 + yrs experience in reservoir engineering activities emphasizing large, multi-well, reservoirs.

Experience working on mature oil fields under water flood. Strong background in reservoir surveillance and optimization, experience in well test interpretation, material balance modeling and performance prediction.

Must have experience/knowledge of current computer software for reservoir engineering applications.

Working in Qatar offers a secure, family-oriented lifestyle where expatriate employees and their families are encouraged to fully participate in the community. All posts offer attractive locally tax-free salaries together with an excellent tax-free expatriate package including family status, excellent children's education, transport allowance, paid air fares (cash equivalent), accommodation and furniture allowances, annual bonuses, life insurance and medical coverage, generous annual leave and other allowances.

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Hudson

17th SPE ICoTA European Round Table – Ensuring a North Sea future through well intervention

15-16 November 2011, Aberdeen Exhibition & Conference Centre (AECC)

The SPE ICoTA European Well Intervention Round Table is Europe's premier forum for exchange and discussion of the latest developments in completion and well intervention techniques.

This year's programme, led by Committee Chairman Callum Munro, of BP, encompasses the full range of well intervention practices including coiled tubing, slick-line, e-line and hydraulic workover, as well as specialist tools and solutions.

The two-day conference will be launched by Keynote Speaker Stuart Brown, Global Well Intervention Theme Lead with Shell. The accompanying sellout exhibition will showcase a range of specialist leading-edge well intervention technologies and services.

A pre-conference short course, on 14 November, will focus on **'Unconventional Reservoirs – shale gas and coal bed methane, heavy oil, HP-HT, advanced well construction and stimulation'**, providing an introduction to a series of topics related to modern reservoir development and at the forefront of technology for many leading operating and well services companies. The course is targeted at engineers and technical support staff wishing to broaden their knowledge and take advantage of the unusual opportunities that become available in a high oil price environment.

Delegate bookings - Early Bird discount of £50 for online bookings until 18 October. For more details contact event organisers Rodger and Co: spe@rodgerandco.com, tel: +44 (0) 1224 495051, or visit: www.rodgerandco.com.

EuALF 2012 European Artificial Lift Forum

22-23 February 2012, Aberdeen

CALL FOR ABSTRACTS Deadline 30 September 2011

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.

Abstracts for presentations of 25 minutes duration are invited in the following areas (full SPE papers are not required):

Experience & Case Histories

Building on and learning from experience
Improving productivity
Real time production optimisation

Reliability & Performance

Run life, uptime and other reliability issues
API guidelines for teardown
Root-cause failure analysis

What's new in artificial lift?

New artificial lift technologies
Alternative ESP deployment
Intelligent Artificial Lift
Low cost artificial lift

Abstracts of up to 200 words, with title, author/presenter details, are invited by 30 September – submit online at www.rodgerandco.com on the SPE Aberdeen page.

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

5th European Sand Management Forum

21-22 March 2012, Aberdeen

CALL FOR ABSTRACTS Deadline 30 September 2011

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.

Abstracts of 100-200 words are invited for presentations. Case studies describing failures and lessons learned, as well as successes, or HSE policy and regulatory requirements, will be particularly welcome. Topic areas of particular interest include:

- Sand prediction
- Sand monitoring
- Surface facilities/topsides
- Sand control selection
- Sand control for unconventional resources/reserves
- Remedial sand control
- Well preparation for optimal sand control
- Solids lift/transport modelling
- Formation damage and sand management
- Heavy oil reservoir management
- HP-HT and condensate reservoir management
- Asset completion and integrity

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.

Abstracts are invited by 30 September 2011 – submit online at www.rodgerandco.com. Contact details as above.

INSPIRING WOMEN INTO OIL AND GAS CAREERS

SPE Aberdeen's Another Perspective (AP) Committee plans to launch the new session this month with an inspirational careers talk aimed at female undergraduates and postgraduates at the University of Aberdeen and Robert Gordon University. The session will focus on how the students' STEM (Science, Technology, Engineering & Maths) degrees can lead to a fulfilling and varied career within the oil and gas industry.

Look out for details of date and venue at the AP page at: www.spe-uk.org.

Leading CO₂-EOR Research

The Institute of Petroleum Engineering at Heriot-Watt University helps its partners to get more value from their assets. Our partners are confident that our researchers can find answers to the industry's most challenging issues.

The knowledge within our research groups is sought after by the world's leading oil and gas companies.

We have a history of significant findings helping to drive more productive operations in our sponsors' companies.

IPE's Centre for Enhanced Hydrocarbon Recovery and CO₂ Solutions has developed impressive capabilities in enhanced hydrocarbon recovery. Building on our EOR research, we are developing better CO₂-EOR injection strategies for offshore reservoirs, combining CO₂-EOR with research into CO₂ storage.

Our EOR and CO₂-EOR experimental facilities are amongst the world's finest, with the capability to conduct experimentation at realistic reservoir pressures and temperatures. Using our experimental techniques we can visualize the effectiveness of novel enhanced recovery techniques.

We produce experimentally calibrated simulation models that your business can rely on. The Centre for Enhanced Hydrocarbon Recovery and CO₂ Solutions offers a range of collaboration mechanisms through JIP sponsorship, commissioned research or consultancy, so that companies in Scotland and beyond have the chance to access a truly world class Scottish facility.

For more information about collaborating with us, please contact:

Professor Mehran Sohrabi
Director of CEHR-CO₂

Gordon Winton
Business Development Executive

e: CEHRCO2@pet.hw.ac.uk

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Unconventional Reservoirs
HPHT / Shale / Coal Bed
Methane / etc.
Date: Mon 14th Nov**

Artificial Lift Design 2012
Gas Lift; ESP[^]; Jet Pump^{^^}.
Dates: Mon 11th - Fri 15th June

Other Courses

Well Integrity for Field Operators;
Gas Lift Workshop; PROSPER*
refresher; Intro to the E&P
industry for support staff.
Dates: available for "in-house"
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Instructor: Cameron Laing (35yrs
PE experience)

Location: Aberdeen

Detailed Course Content:
www.letstrain.co.uk

Book: www.rodgerandco.com
Tel +44 (0)1224 495051

[^] in association with Alastair Baillie of 

^{^^} with Joe Allan of PTC

* www.petex.com

** SPE/ICoTA Well Intervention Conference

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SPE London Section Presents

Regional Focus on the New Iraq

Thursday 27th October 2011

Geological Society, Piccadilly, London 9.30 – 5.30

Schlumberger

With the fourth Iraqi licence round opening in January 2012, there is no better time to increase your knowledge of the opportunities and risks of investing in this region. The SPE London section continues its successful format of spending a day looking at the technical and commercial issues of investing in a region ripe for investment. If you are already involved in the region or would just like to know more, this seminar is not to be missed.

Speakers include:

Ivan Djokic BAYPHASE

'The Iraq Fourth Licensing Round - How to apply and what's on offer'

Iain Wright AFREN

'Afren's entry into the Kurdistan Region of Iraq: Great Geology Materiality and Line of Sight to Significant Production'

Shahin Amini FOX DAVIES CAPITAL

'The New Iraq from a Venture Capital Viewpoint'

Ramin Lakani GAFFNEY CLINE

'Gas business in Iraq: from production to utilisation and potential for export'

Billy Dean Gibson SCHLUMBERGER

'Security - How to keep safe in the New Iraq'

Booking via www.katemcmillan.co.uk

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

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.

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

**Looking further
ahead...**

Building on the ongoing success of its flagship annual events, SPE London's Continuing Education Committee has lined up a busy programme 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

LONDON

- 27 October 2011: Regional Focus on the New Iraq
- 17 November 2011: Introduction to E&P
- 8 February 2012: London YP Technical Meeting: 'The Unconventional revolution: from an emerging resource to a core business'

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

- VENUE FOR ABOVE EVENTS:** Aberdeen Exhibition & Conference Centre

For details of all SPE Aberdeen events, please visit:
www.spe-uk.org 'Aberdeen Events' or contact Rodger and Co
(details on page 12)

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technical events

Asset integrity management

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Tuesday 26 October 2011
Aberdeen



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- **Andy Duncan, HSE**
- **Phil Ligertwood, Chevron**
- **Steve Plant, Plant Integrity Management**
- **Keith Hart CEng FEI, Independent Consultant**

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- Avoidance of vibration induced fatigue failure in subsea systems
- Subsea obsolescence
- Corrosion management issues
- Effective deployment of cathodic protection

Venue in Aberdeen to be confirmed

For more information please contact Vickie Naidu on t: +44 (0)20 7467 7179

e: vnaidu@energyinst.org

www.energyinst.org/events



Aberdeen Section

www.spe-uk.org

ICoTA

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www.icota-europe.com

17th

SPE ICoTA European Well Intervention Conference



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15th & 16th November 2011

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well intervention services

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