

SPE review

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

issue 274 | October 2013



Society of Petroleum Engineers
Aberdeen and London Sections

ISSUE CONTENTS:

Contacts	02
London Section Sponsors	02
60 seconds with a Young Professional	02
Upcoming technical meetings	04
SPE Aberdeen at Offshore Europe	06
Continuing Education Aberdeen	07
Continuing Education London	08
YP London events	10
Forthcoming UK events	10
Consultants listing	10
Recruitment	9 & 11



HONoured GUEST

SPE 2013 President Egbert Imomoh was guest of honour at the SPE Aberdeen Annual Awards, held during Offshore Europe. In his address to Section members, he highlighted the value of volunteering and praised SPE Aberdeen for its innovative work, particularly in inspiring schoolchildren and teachers to learn more about the energy industry.

See pages 6-7

SPE LONDON ANNOUNCES NEW EVENING NETWORKING EVENT



SPE London is launching a new winter event, 'An evening with Lord Browne'.

Held on 2 December, the inaugural event will be a flagship occasion for the Section and will provide excellent networking opportunities for members, guests and VIPs.

Lord Browne will discuss his career in the oil and gas industry, the transformation of BP under his leadership, the role of the fossil fuel industry in the 21st century, and the part petroleum engineers will play in the transformation of our energy system (see p8 for details).

Preparations are also under way for the SPE London 2014 annual conference. Taking the theme '**Opportunities and Investment in Upstream Oil & Gas**', the high-profile event - which provides a unique forum for technical and business professionals in the oil and gas industry - will be held on 4-5 June, at the Royal Institution of Great Britain.

The 2014 conference Programme Committee comprises: Dr Renu Gupta, Gupta Energy (Chair); Ramin Lakani and Drew Powell, of Gaffney, Cline & Associates; Valery Konyushenko, Citi; Robert Hodges, Ernst & Young, and Arnaud Mille, Centrica Energy and London Section Chair.

Find out what SPE YP London has in store this month - page 10

SPE review

The Society of Petroleum Engineers (SPE), a not-for-profit professional association of 104,000+ members from more than 123 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 5,000 UK SPE members, and quarterly to an additional 7,000+ 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.

The views expressed herein are not necessarily those of the SPE.

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The copy deadline for the November 2013 issue is **21 October 2013**, with publication scheduled for **6 November 2013**.

CHANGE OF ADDRESS?

If you need to change any of your membership details, please visit the **Update your profile** link at the foot of the homepage at www.spe.org.

SPE Aberdeen's 40th anniversary - watch this space!

In preparation for SPE Aberdeen's 40th anniversary next year, a group of board members is developing a programme of celebrations to mark the occasion.

SPE Aberdeen Chairman Anthony Onukwu says: *"The Aberdeen Section was launched in July 1974, with a membership of only seven. Today, we have more than 2500 members and have plans for future growth. We are looking forward to announcing a series of events for 2014, to celebrate our very special milestone."*

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SPE PEOPLE



60 Seconds with a Young Professional...

Nurzhan Kairbayev

Reservoir Engineer, Senenergy, London
SPE YP London Committee Chair



Where were you educated? Your qualifications?

I graduated with a BSc in Petroleum Engineering from Kazakh-British Technical University. I have also completed two MSc courses: one in Petroleum Engineering, from Imperial College London, and one in Oil and Gas Enterprise Management, from the University of Aberdeen.

Why did you join the industry?

I first got to know about the oil industry when I was at school and heard that the huge Kashagan field had been discovered. From then, I was fascinated by the fact that fluids extracted from formations thousands of feet underground affect the lives of almost every person in the world. I wanted to become part of this intriguing industry.

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

I like the fact that I work with different people and on projects around the world. One thing I would change is some people's negative perception of the work that we do in our industry.

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

The moment when I first saw oil coming out of a well.

What kind of future do you think the industry faces?

A very challenging one, with a growing demand for oil, shortages in supply, climate change and environmental concerns. But it will also be a very interesting time, when the young professionals of today will have the opportunity to shape the industry and affect the lives of millions.

How do you like to spend your leisure time?

With my family and friends. I also like to play futsal (indoor football) and enjoy reading books.

What makes you angry?

Dishonesty and hypocrisy.

What makes you happy?

Enjoying the simple things in life, such as discovering new places and seeing something for the first time.

Who inspires you? Why?

I am inspired by many people, from the likes of Einstein, Mandela and Steve Jobs, to people who spend their free time helping to raise money for good causes. They have all taught me something and help me in my everyday life.

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

SPE offers great benefits for its members, such as access to thousands of research papers, networking opportunities, participation in conferences and seminars, to name a few. I started volunteering three years ago, when I joined the London YP Committee, and have helped to organise a lot of events since. I believe volunteering is a great way to give something to the industry that does so much for all of us.

What is your dream job?

The one that challenges me every day, gives me the opportunity to apply my skills and knowledge, and helps me to develop personally.



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Aberdeen, UK 2013 Training Schedule

SEPTEMBER 2013		
Aberdeen, UK	03 - 06 Drig / WO	IADC
Aberdeen, UK	09 - 13 Rotary Drig	IWCF
OCTOBER 2013		
Aberdeen, UK	30 - 04 Rotary Drig	IWCF
Aberdeen, UK	07 - 10 Drig / WO	IADC
NOVEMBER 2013		
Aberdeen, UK	04 - 08 Drig / WO	IADC
Aberdeen, UK	11 - 15 Rotary Drig	IWCF
DECEMBER 2013		
Aberdeen, UK	02 - 06 Rotary Drig	IWCF
Aberdeen, UK	09 - 12 Drig / WO	IADC



TECHNICAL MEETINGS



LONDON



ABERDEEN

London



Erkan Karakaya, of Schlumberger, will present the pre-dinner talk at the SPE London evening meeting, on **29 October**, at the **Geological Society, Piccadilly**.

'Perceived value and popularity of Decision Analysis tools in Upstream E&P' will remind the audience of the basics of decision analysis, discuss its application within

the oil and gas industry, and focus on the motivations, design and results of a study to gauge the industry's perceptions of its value.

Erkan Karakaya is Principal Economist & New Ventures Director at Schlumberger's Production Management Segment and a recognised Schlumberger domain leader in decision analysis and risk management. Before assuming this role, Erkan worked as General Manager of Planning, Risk & Reserves Business for the Middle East, where he provided planning, economics and corporate risk assessment solutions to regional oil companies, many of them key OPEC producers. Prior to that, he worked for Petronas in various positions, his responsibilities including Upstream asset acquisition and divestment, Upstream portfolio management, corporate strategy development, economics and schedule modelling of Upstream projects, strategic alignment of cross-discipline expertise, risk modelling, and management information systems.

Erkan has an MSc degree in Petroleum Engineering from Middle East Technical University, where he also taught Engineering Mathematics, Petroleum Economics and Reservoir Simulation courses. He also holds an MBA degree from Manchester Business School.

Following the networking buffet, **SPE Distinguished Lecturer Martin Rylance, of BP Global Wells**, will present **'Unconventional completions: a paradigm shift'**.

The approach to the development of unconventional resources in North America was born out of the marriage of horizontal wells with hydraulic fracturing. While highly successful, it was developed and applied with few options/capabilities available for lower completion design. The end result has been the application of high-rate water-frac/hybrid/gel approaches, over a number of clusters, which attempts to perform multiple fractures at the same time during each treatment execution. Ideally, a fracture initiation occurs at each cluster, though this is rarely achieved, and in this way the overall well length can be treated in a timely and efficient fashion. Additionally, the acceleration of hydraulic fracturing within horizontals has resulted in a schism in fracturing, with the creation of two competing approaches: the open-hole and cased-hole techniques. Both completion approaches are valid and have genuine

application across hydraulic fracturing; however, the industry requires the elusive lower-completion combination of open-hole efficiency combined with cased-hole accuracy.

This presentation argues that a number of relatively recent advances in available lower completion technology will allow the industry to achieve this 'holy grail'. It will also demonstrate that the application of such new approaches can result in far better efficiency of the fracturing process and a higher success rate, with less environmental impact and improved economics.

"The one idea that I would like members to take away from this lecture is that while brute force and macro-economics can allow the initial delivery of a new resource, it is in fact the engineering and optimisation of these that make such an approach sustainable and economic in the longer term," the Distinguished Lecturer says.

Martin Rylance is the Senior Advisor and Engineering Team Leader for Fracturing and Stimulation within the BP Global Wells Organisation (GWO). He has been with BP and worked with its partners and JVs for more than 25 years, since graduating BSc (Hons) in Pure Mathematics. During this time his roles have included Interventions Team Leader with BPX in Colombia; Head of Fracturing and Stimulation for BP Worldwide, Chief Engineer with TNK-BP, in Moscow, and Project Manager in a number of frontier areas.

He has numerous papers and publications to his name, is an active SPE member and is also a Fellow of the Institute of Mathematics, in London.

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 October (£19 after).

Aberdeen

Martin Rylance will present his lecture to an SPE Aberdeen audience, at the **Douglas Hotel**, on **23 October (6.30-8.30pm)**.

Bookings for Aberdeen meetings: www.rodgerandco.com; tel 01224 495051; spe@rodgerandco.com

Further information: www.spe-uk.org (Aberdeen Events)

Asset integrity management conference

Operational asset integrity management for ageing offshore oil and gas infrastructure
29 October 2013, Aberdeen

The programme of this year's annual asset integrity management conference will be based on industry guidelines developed by the Energy Institute. It will address the key issues for a number of critical offshore components and challenging asset integrity management issues. The conference will be followed by a drinks reception to launch the EI's guidelines on small bore tubing assemblies.

Speakers and topics include:

- **Peter Allison**, Lead Consultant, OFC Consortium
Managing microbially induced corrosion (MIC)
- **Ben Coutts**, Engineering Director, Hydrasun
Latest techniques for successful management of small bore systems
- **Andy Duncan**, KP4 Manager, Health and Safety Executive
Latest on HSE's KP4 programme
- **Laza Krstin**, Principal Consultant, ABB
Managing corrosion under pipe supports
- **Laurie MacKay**, Fabric Maintenance Manager, ConocoPhillips
Latest on fabric maintenance and thermal insulation systems
- **Brian Nixon FEI**, Chief Executive Officer, Decom North Sea
Transiting to end of asset life
- **Robert Noble**, Technical Director, Integrity
Management of bolted joints in pressurised systems
- **Steven Plant**, Managing Director, Plant Integrity Management
Corrosion management of life extended offshore production facilities
- **Taf Powell FEI**, Expert Advisor, EU Commission
Keynote session: New EU Directive for offshore oil and gas operations
- **Dr Cameron Stewart CEng**, Upstream Technology Manager,
EI Conference Chair
- **John Wintle**, Consultant Engineer, TWI
Technical gap analysis for ageing and life extension (ALE) applications
- **Carlos Caicedo Martinez**, Materials and Corrosion Team Leader, Shell
Managing microbially induced corrosion (MIC)

To register your interest or for further information, please contact
Gemma Wilkinson e: gwilkinson@energyinst.org t: +44 (0)20 7467 7174

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Laboratory personnel involved with SCAL measurements will find the course useful in learning how their results are used and in gaining insight into how laboratory programmes might be improved. Production geologists and petrophysicists working in integrated teams will also find the course valuable, particularly in selecting samples for analysis and assisting in relating relative permeability and capillary pressure to rock type.

www.imperial.ac.uk/cpd/core

For further details contact:

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Please visit www.cmgl.ca/training-europe
to register for these courses.

WHAT'S NEW 2013 SEMINAR

CMG is pleased to announce a **What's New seminar** will
be held on **Wednesday, 6 November 2013** at Howbery
Park in Wallingford. For more information, please visit
www.cmgl.ca/europe-whatsnew



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A magical evening

SPE Aberdeen's Annual Awards ceremony, at Offshore Europe 2013, was a magical affair, thanks to the amazing conjuring skills of MC Ivor Smith, of Fifth Dimension.

Welcomed by SPE Aberdeen Chairman Anthony Onukwu, guest of honour, SPE President Egbert Imomoh, congratulated the Section for its achievement in winning the President's Award for Excellence for the fourth year in a row, as well as the 2013 Section Award for Innovation. He described enthusiastic local volunteers as *"the oil that fuels the SPE global engine"* and told members: *"I really appreciate all the hard work that's being done by the volunteers in Aberdeen - particularly in the classroom, as that's the future."*

Section Awards were presented to: Maria Trujillo, former Chair of the Another Perspective Committee; Ross Taylor, Co-chair of the Schools Career Guidance Committee, and to the University of Aberdeen SPE Student Chapter. The 2013 SPE Regional Service Award for the North Sea Region was also presented to long-standing Aberdeen board member John Donachie.



WINNING SMILES (l-r): Anthony Onukwu and President Egbert Imomoh, with SPE Aberdeen award winners: Maria Trujillo; Elvis Osung and Illia Kuznietsov (University of Aberdeen Student Chapter); John Donachie, and Ross Taylor



President Imomoh's volunteering theme was carried through to SPE Aberdeen's 'kick-off' meeting, on 12 September, which showcased the work of the Section's committees, provided a valuable networking experience for new members and underlined Anthony Onukwu's key message: *"YOU are the SPE."*

SPE YP Europe Petro League ...and the WINNER is...

By Nikhil Shindgikar, on behalf of SPE Aberdeen YP Committee and SPE YP Europe Petro League Committee

Winners of the inaugural SPE YP Europe Petro League competition - a team from the University of Aberdeen - scooped the top prize of £2000, by impressing a judging panel of leading industry professionals with their extensive technical knowledge of the oil and gas industry.

The new six-round student competition, organised by SPE Aberdeen Young Professionals Committee with the support of SPE Aberdeen, involved 10 teams of students studying oil and gas-related subjects competing for the prize. The day-long competition, hosted at Offshore Europe, tested the participants with case study analysis and quick-fire Q&A sessions.

The judging panel included: Hugh Rees, Subsurface Manager at BP; Alan Johnson, Principal Petrophysicist at Shell; John Harris, President of Gaffney, Cline & Associates, and Nikhil Shindgikar, Section Head of Green Well Services Chemicals and REACH for Europe & Africa at Schlumberger.

The winning team, 'KAMA', said they were delighted to have been awarded first place in such a challenging competition, and to have been recognised for their hard work and preparation. They described the event as a worthwhile and highly-rewarding experience.

During the competition, participants made new connections within the sector, which will help them during their job search.

The event organising committee, led by Oludare Elebiju from SPE YP Aberdeen, worked hard to put up a great show, and this, together with the enthusiasm and determination of each team, contributed to the overall success of the competition.

Our thanks to all the students who entered this year's Europe Petro League, and special thanks to the event sponsors Maersk (GOLD Sponsor) and Palantir (BRONZE Sponsor).

<https://www.facebook.com/SpEypEuropePetroleague>

<https://www.facebook.com/pages/SPE-Aberdeen-Section-Young-Professionals/318982074875817>



The winning KAMA team, from the University of Aberdeen, with Petro League panellists.

Energy4me Teacher Workshop

SPE's energy education programme Energy4me hosted a teacher workshop for local educators at Offshore Europe. Thirty-five primary and secondary teachers from Aberdeen City and Aberdeenshire were welcomed by SPE President Egbert Imomoh, before spending the morning touring the exhibition floor. Exhibitors allowed the teachers to explore the technologies on display, ask questions about careers in the industry, and make links to industry contacts for future classroom visits for their students.

Energy4me hands-on science lessons were adapted for the Scottish Curriculum for Excellence (CfE) by Aberdeen City Council and Satrosphere Science Centre. They were presented to teachers, who spent the afternoon experiencing the activities to bring back to their own classrooms. During the interactive session, run by Satrosphere staff, the materials were well-received and their ease of use and relevance to CfE were commented on by the teachers. This was much appreciated by the working group.



Colin Black, VP OPTIMA and SPE Europe board member, explains: *"Inspiring pupils and supporting teachers to embrace science in class is key to developing the energy sector. Our vision is to support schools and embed Energy4me resources and, as appropriate, provide SPE volunteer support in the curriculum. This excellent pilot project is a great example that could be replicated by many SPE sections internationally."*

Offshore Achievement Awards now open for entries

Following the success of last year's awards, SPE Aberdeen has announced that entries are now open for the **2014 Offshore Achievement Awards**.

The awards, hosted by SPE Aberdeen with the support of principal sponsor TAQA, have recognised outstanding success and innovation in the oil and gas sector for more than 27 years.

The Offshore Achievement Awards are open for entries until 2 December, and will be held at the Aberdeen Exhibition and Conference Centre on 20 March, 2014.

For further information and entry criteria, please visit www.spe-oaa.org.

SPE Aberdeen launches new App

SPE Aberdeen is pleased to announce the imminent launch of its Smartphone App - designed to help members find out about - and book - forthcoming events; check out past events, and receive news and articles about the Section's activities.

The App, which will be launched on 21 October, provides easy access to immediate information and links to further details available on the SPE Aberdeen website. The About Us section enables users to easily contact board members.

The App is optimised for Smartphones, but will work equally well on tablets - just search for 'SPE Aberdeen' on the Android Market and Apple iStore.



Continuing Education

ABERDEEN



Aberdeen Exhibition & Conference Centre

Europe's premier forum for exchange and discussion of the latest developments in completion and well intervention techniques. The event encompasses the full range of well intervention practices, including coiled tubing, slickline, e-line and hydraulic workover, as well as specialist tools and solutions.

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SPE ICoTA pre-conference short course - 'An introduction to well intervention' 12 November

Aberdeen Exhibition & Conference Centre

Aimed at beginners, non-specialists, or those wanting a refresher, this course - led by trainers from Peak Well Systems and Boots & Coots - will provide a brief introduction to the main types of well intervention in use today.

SPE Summit Series Seminar: 'Inwell flow surveillance and control: new frontiers'

22 October

The Marcliffe Hotel, Aberdeen



In his keynote address, 'Downhole Flow Control & Monitoring, a helicopter view', Mohamed Noui-Mehidi, of Saudi Aramco, will provide an overview of the experience and practices already in place in downhole flow control and monitoring.

Principal Sponsor: Saudi Aramco

Dates for the diary

- SPE SMN 6th European Sand Management Forum, 26-27 March 2014
- SPE EuALF 2014 European Artificial Lift Forum, 17-18 Jun 2014

For information on any of the above events, please contact SPE Aberdeen event managers: Rodger and Co, tel: 01224 495051; spe@rodgerandco.com



London Section

9th Annual Introduction To Exploration & Production Seminar

Thursday, 21st of November 2013, London

BOOK NOW



One day seminar aimed at people working in the 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 attend a series of presentations by industry and academic specialists covering the subsurface 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.

Booking: www.katemcmillan.co.uk, tel: 07736 070066,
email katespe@aol.com.

Cost: £245 for SPE/PESGB/EI members, £285 non-members. 15% discount offered for parties of 5 or more.

<http://london.spe.org>

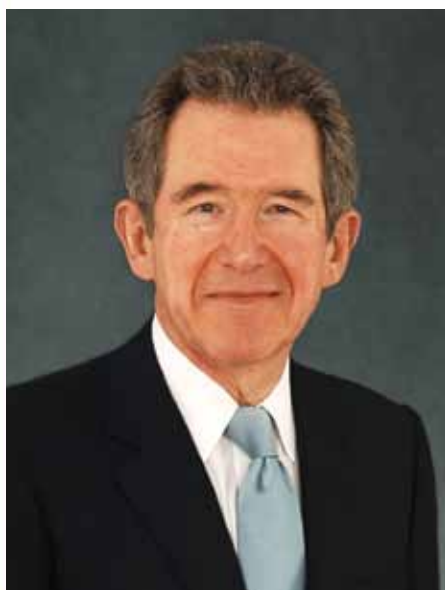


London Section

A date for your diary: 'An evening with Lord Browne'

This inaugural event will be a flagship evening for the SPE London Section and provide excellent networking opportunities for members, guests and VIPs.

BOOK NOW



Lord Browne will discuss his career in the oil and gas industry, the transformation of BP under his leadership, the role of the fossil fuel industry in the 21st century and the part that petroleum engineers will play in the transformation of our energy system.

Where: The Royal Institution of Great Britain,
21 Albemarle Street, London W1S 4BS

When: 2 December 2013

Time: Doors open 6pm for 6.45pm start until 9.00pm

Tickets: Members: £20; non-members £40; includes drinks and canapés. Places are limited.

Booking: www.katemcmillan.co.uk,
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SPE YP London launches exciting programme of events

As SPE review went to print, SPE YP London Committee was about to launch its 2013/14 programme with its second annual **'Introduction to Management Consulting in Oil & Gas'** event, organised in partnership with Boston Consulting Group (26 September). Hosted by the BCG Energy Practice, the interactive, informative event is designed to highlight the work of management consultants in the industry and take participants through real-life case studies of consulting assignments.

Following a highly successful event in 2012, this year's House of Commons visit (**8 October**) takes the theme **'Will Unconventionals be a necessary conventional choice?'**, and will once again be hosted by YP London, in association with their colleagues at PESGB.

On 10 October, the Committee will launch a new event - the **SPE London Student Paper Contest**, in which students from Imperial College London and the Universities of Manchester, Leeds and Coventry will present their final year projects in a typical evening dinner meeting setting. The winner will automatically be entered into the European Paper Contest. SPE members at all levels are encouraged to come along to support the future young professionals and learn about cutting-edge research into solving industry-relevant problems.

SPE YP London Committee Chair Nurzhan Kairbayev says: *"We have a very exciting programme lined up for the coming year, full of interesting technical and social events. We also have several events planned specifically for students. We encourage our members to play an active part and to keep an eye on our web and LinkedIn pages for future updates."*

<http://london.spe.org>

<http://london.spe.org>

FORTHCOMING EVENTS

LONDON

- 29 October (5-9pm) (Before dinner): ‘Perceived value and popularity of Decision Analysis tools in Upstream E&P’, Erkan Karakaya (Schlumberger); (After dinner): ‘Unconventional completions: a paradigm shift’, Martin Rylance (SPE Distinguished Lecturer, BP Global Wells)
VENUE: Geological Society, Piccadilly, London
- 21 November: 9th Annual Introduction to Exploration & Production Seminar
VENUE: Royal Geographical Society, 1 Kensington Gore, London
- 2 December: ‘An evening with Lord Browne’
VENUE: The Royal Institution of Great Britain, 21 Albemarle Street, London

For details of all SPE London events, visit: www.katcmcmillan.co.uk and <http://london.spe.org>. If you would like to sponsor an SPE London event, please email colin.david@akersolutions.com

ABERDEEN

- 23 October: ‘Unconventional completions: a paradigm shift’, Martin Rylance (SPE Distinguished Lecturer, BP Global Wells)
VENUE: 6.30pm Douglas Hotel, Market Street, Aberdeen
- 22 October: SPE Summit Series Seminar - ‘Inwell flow surveillance and control: new frontiers’
VENUE: The Marcliffe Hotel, Aberdeen
- 13-14 November: SPE ICOTa 19th European Well Intervention Conference
VENUE: Aberdeen Exhibition & Conference Centre.

For details of SPE Aberdeen events, please visit: [www.spe-uk.org/Aberdeen Events/](http://www.spe-uk.org/Aberdeen%20Events/), or contact Rodger and Co: spe@rodgerandco.com; www.rodgerandco.com

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Following several successful in-house long term training programs in well engineering and operations, Entrac Petroleum is pleased to offer this intensive two year Accelerated Training Program (ATP) for Well Engineers working for operators and service companies.

Starting in October 2013, the ATP will be run by highly experienced well engineers with previous experience with major operators: Shell, BP, Total and BG.

The Well Engineering and Operations accelerated training program is the most complete and extensive program available to the industry. It covers all aspects of well design and execution including: well planning, casing & drillstring design, cementing and mud technology, hydraulics, wellbore stability, wellheads and Xmas trees, well completion, well control and management of wellsite operations.

ATP Includes:

- Attendance of several courses at our training centre
- Study modules
- Access to 40 e-learning modules covering every aspect of the well design process with extensive practical examples, 3D animations and procedures
- Mentoring by industry respected well engineers
- Theoretical Assignments with detailed tips
- Rig-based assignments
- One week revision course followed by a formal exam leading to a certificate of successful completion



Entrac Petroleum

To discuss this program and find out more details, please contact us on:

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