

SPE REVIEW

LONDON



**Betting on the Future
Being Gender Smart: The Key
Holistic View for Asset Evaluation**

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ABOUT US

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves more than 143,000 members in 141 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, events, training courses and online resources at www.spe.org. 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 London sections of the Society of Petroleum Engineers. It is sent by e-mail to over 4,000 SPE members. If you have read this issue and would like to join the SPE and receive your own copy of SPE Review London, 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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Future Focus

As the Autumn nights draw in, there's something comforting about bundling up warm and settling in with a hot drink to enjoy a good read – and we've got a bumper issue for you!

The new SPE President for 2017, **Janeen Judah** is a busy person, so we were lucky to get a chance (on her visit to SPE London office) to ask **her views on some of our industry's hot topics, including the 'leaky pipeline'**... interview starts on *page 3*.

Drew Powll shares ideas on how a **holistic approach to asset value** (that treats subsurface and surface risk and uncertainty on an equal footing) should improve EY's future assessments of large-capital projects - see *page 6*.

There are many things organisations can do to be **Gender Smart and work better for women**, says **Inge Woudstra**, author of 'Be Gender Smart - the Key to Career Success for Women'. See her insights starting on *page 10*.

And there's a opportunity to **develop/update technical product skills** in support of career development, with complimentary training classes - more information on *page 12*.

SPE London actively encourages **member engagement and networking**: read about the **Student Paper Contest on page 7**, and remember to check out the details (*page 10*) for the **Intro to Exploration & Production**: 12th Annual Seminar in November.

And there's more events and networking opportunities listed on *page 12*.

As always, this issue of SPE Review London offers the opportunity to be educated, entertained and informed.

We appreciate all your feedback!

SPE Review London is YOUR online magazine, so please send us your ideas, comments and suggestions for articles, interviews and/or topics you'd like to see in future issues.

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<http://london.spe.org/home>



Betting on the Future



Janeen Judah's leadership term as 2017 SPE President began on the final day of the SPE Annual Technology Conference and Exhibition in Dubai. Under her leadership, Janeen is determined to be accessible and actively engage with members and with local professional and student chapters.

On a late September 2016 visit to SPE London, we caught up with her to ask about the industry's financial health, local focus, the engineer's view of the world, and the 'leaky pipeline.'

The priority has to be the industry's financial health, following the oil price decline [trading \$50.44 in early October 2016], says Janeen Judah, 2017 SPE President. The continuing low oil price – and need to save money wherever possible – has resulted in reduced capital expenditures among member firms, and a subsequent impact on SPE International's programmes.

As Janeen explains: 'Many people and companies now have restrictions on travel and training, and so can't attend as many conferences and events.' And then she adds: 'Conversely, however, that limitation may offer opportunities at a local level.'

Local focus

'More people are attending local section events because they can no longer travel as extensively,' says Janeen. 'So they use local events to get the technical fix, look for jobs/networking, and to build contacts for the future. As an industry, we've been so busy in the past few years that people were chained to their desks, focused on keeping the rigs going, with no time to look up. That's now changing – for various reasons – and people are more interested in SPE's core message, as they look to network, gain technical expertise, and simply reengage at the local level.'

Of course, as for any company, the financial challenges have resulted in altered management focus at SPE International. As Janeen comments: 'SPE is a business, with the majority of our income coming from the larger business meetings – and we then spend that income on our members. So as the income from those bigger events has declined, we have less to spend on our members – and we have to make adjustments. And adjustments are never pleasant.'

'It's not just about operating leaner, it's also looking at cutting costs, at ways to be more efficient, just like getting more oil out of old assets, and at new ideas in general.'

Engineer's view

Some of those new ideas may include positively affecting public perception of the industry.

While engineering technology is used across other industries, there is still a perception that 'it came from oil and gas, so it must be bad.' Janeen comments that the public relations issue needs to be addressed: 'There are people that would just like us to go away, and we'd all have solar panels... but that's the reality of public perception. As engineers, we tend to think that if we do more public education, provide more data in a way that people would understand, then that would solve the PR problem – but that's a typical engineer's view of the world: if we have more data, then we can understand it. I think we can give people all the data in the world, but they don't want it. We've already put out information about energy from solar, and wind, and bio fuels – but people just don't like us.'

She mentions a new film released in the USA [Deepwater Horizon], depicting the events of the BP oil spill of 2010, and comments that it is pitched 'almost as a documentary': 'This new movie will likely reinforce the public perception that our industry doesn't care about its people.'

Elitist discussion?

However, as she points out, most of the discussions about global warming, and use of fossil fuels, and carbon emissions generally come from North America and Western Europe.

She often concludes public presentations by showing a well-known NASA photo of the world at night, and pointing out where all the lights are – and aren't.

'As you travel around the world you find places that simply don't

Continued on next page



An SPE member for almost 40 years, Janeen Judah previously served on the Board of Directors as the Vice President of Finance, Regional Director for Gulf Coast North America and as chair of both the Gulf Coast and Permian Basin Sections.

Betting on the Future

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have an electric grid – such as Luanda, the capital city of a large country (Angola),’ she says. ‘If you don’t have a generator behind your building, you don’t have electricity – and there are large parts of the world like that, where people still cook on biomass, and would love to have a nice gas-fired cooker. Access to energy makes a difference to so many people’s lives; it seems almost elitist to complain about fossil fuels – women in rural India probably don’t feel the need to complain, they’d just be happy to have the option to make use of it.’

Nuclear Car

Along with managing public relations, issues such as limiting pollution, and minimising the carbon footprint are already integrated into the industry’s thinking. But Janeen believes there is a need to consider new technological developments – such as electric cars – as part of the ‘full-lifecycle green’. ‘Batteries are not green, and most electricity is not green’, she says. ‘Depending on the US state, most cars are actually run on electricity provided from natural gas or nuclear; it’s the same in France, if you’re driving an electric car, you’re driving a nuclear car.’

Janeen points out that we’ve forgotten where our electricity comes from: ‘In a meeting, or at a conference in the Western world, if I ask the question of where electricity comes from, people look at the plug in the wall ... and then realise they have no idea where that power comes from.’

Global demand

And that issue of power, and demand, is a complicated one – as are ideas about where demand will be in the next few years.

While the natural gas market is fairly local, oil is produced in one place and generally used in another, going to the market where it’s needed. It’s a complicated subject. As Janeen comments, she’s not an expert: ‘I’ve talked to full-time economists, and there are varying opinions. However, in general, the ongoing demand-growth curve (mostly in developing countries) for development will generally drive up the price of oil in the long-term.’

When will it go up? Some economists suggest the price will suddenly ‘pop’ up. ‘I think it will crawl up,’ avers Janeen. ‘I think the price of oil will reach about \$53 - \$55 early in 2017, and perhaps reach \$60 by that year end.’

On a global basis, the Permian Basin and the Middle East are still fairly active; the former because it can make a profit at \$30, and the latter because it takes a long view.

Wounded industry

Janeen points out that when the industry does recover, it’s going to look very different.

‘In this downturn, operators have taken big hits. Yes, we still have cash flow – although half of what we did have – but the service industries are wounded, decimated. Many got rid of staff and equipment, and are eeking by, so when fortunes turn, and we start calling... they won’t have the capacity, and it will be a slow build up.’

Another change will be in staffing numbers, with fewer people to do the same amount of work.

‘Much of the older generation has retired during this downturn, so that hump’s gone,’ says Janeen. ‘There’s a crew change, and when we start up again, it’s the younger generation who will run the show. There will be some good opportunities, but without the ‘backstop’ of older people, there will be mistakes, pluses and minus.’

Leaky pipeline

Janeen naturally gets asked about the role of women in the industry. As she points out, she’s the first woman president in 11 years: ‘Here’s an entire contingent of young people for whom it’s a new experience to see a woman president in their industry standing in front of conference, or giving a keynote speech.’

She also gets asked if she’s going to solve the industry’s ‘women problem’. Janeen suggest taking a different viewpoint, in that it’s a societal problem, not particularly an industry-specific one.

‘A McKinsey study revealed the ‘leaky pipeline’, she says. ‘The study covered various industries, including finance, retail, hospitality – and each one share the same problem of the gradually reducing number of women going through middle management, and then to the ‘C’ suite... and we were no worse than anyone else.’

Entrance into the industry is generally through an engineering or geosciences degree, and hiring generally reflects the disciplines’ average male/female ratio of 20% female engineering graduates, and the 40/60 split in geosciences.

‘So we have women coming in,’ comments Janeen, adding that they also generally leave mid career. ‘But that’s common in all industries. It’s a societal issue, the work/life balance. That is a key phrase, which tends to mean: how do you manage the second job you have at home... grocery, shopping, cleaning? It’s a juggle, so it’s not going to be perfect - but it can be pretty darn good. It’s about managing expectations within a partnership.’ She points out that younger people seem to want more shared parenting, with men wanting to be more active participants.

‘So, companies will have to look at how people progress in their careers, be flexible, and ensure that talent is not excluded or by-passed or missed because of challenges with a work/life balance. It’s not just a ‘women’ issue; theyoungermenarealsointerestedinflexibleconcepts.’

‘Having two career paths can derail many careers; someone has to step back. Many women in the ‘C’ suite have partners who, at some point, gave up on their own career path. And if a woman decides to take the step back for her partner’s career – well, you can’t really come back, as life goes on past. It’s like stopping exercising – it’s hard to get back on the treadmill. So, if you’re having to make decisions about that balance, then go part time, or look for creative ways to stay in the industry.’

As Janeen concludes: ‘Remember that you can have it all... just not all at the same time. Our industry is changing, and we simply have to bet on the future!’

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The Necessity of a Holistic View for Asset Evaluation

Drew Powell is Global Director, Operations, for Gaffney, Cline & Associates.

This article is a synopsis of Drew's presentation at the SPE London evening event at Imperial College, London, in September.

The petroleum industry is littered with projects that possessed strong Internal Rates of Return (IRR) at the FID (Final Investment Decision) gate, but have subsequently failed to meet those capital return targets, often by a significant margin. The primary causes of such value erosion have often been significant CAPEX escalation and schedule deferral rather than uncertainty in subsurface definition.

One particular recent analysis by EY highlighted 64% of large-capital projects as having overspent with 73% reporting schedule delays. The reasons for such overspend and delay are wide-ranging and numerous, but the salient point is that CAPEX overspend and schedule extension are extremely common-place. Consequently, any sensible observer should recognise that a true evaluation of a hydrocarbon asset would need to consider 'surface-related' risks and uncertainties to the same degree as the 'subsurface-related' risk and uncertainty.

This empirical evidence of widespread value erosion needs to be considered when undertaking asset evaluations for transactional, statutory reporting or stock market purposes. Unfortunately, over many years of hydrocarbon asset evaluation, GCA has seen a common theme whereby the vast majority of the focus from interested parties, in terms of value assessment, is on the subsurface; there is lesser interest in the surface facilities risks, monetisation options and potential CAPEX uncertainty issues. Such interested parties may demand weeks of petrophysical, geoscience and reservoir engineering due diligence on an asset and typically then augment such a review with only a handful of hours assigned to facilities and CAPEX due diligence.

For example, the author has seen cases where companies simply have project CAPEX (and OPEX) assigned by means of analogue, based on a regional \$ per Barrel norm, or output from some

data-limited software, giving little consideration of any surface facility risk register or narrative of where value could be eroded.

It is important investors understand that good facility definition and robust CAPEX estimates are often as critical as subsurface effort in asset value derivation. To illustrate this statement, the author took a simple but representative model of a generic shallow water development and ran economic sensitivities. The base model managed a respectable NPV10 (net present value at 10% discount rate) of US\$580MM with an IRR of 14.5%. The author then ran sensitivities to 20% variations in CAPEX, OPEX and Production (same effect as oil price) as well as to a 2 year first oil deferral.

The tornado diagrams (Figure 1 - below, and Figure 2 - on page 6)

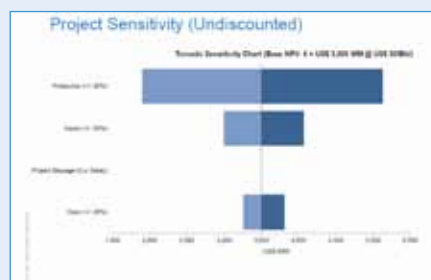


Figure 1. Project Sensitivity (Undiscounted)

show the impact on project economics: Needless to say, production (and or oil price) has a significant NPV10 impact, but CAPEX and/or a 2 year deferral also have significant impacts on NPV10, whereas OPEX

variations can almost be considered inconsequential (obviously, this would not necessarily be the case in a mature producing asset).

Although production appears to be the key driver, it must be recognised that a corroded compressor or an under-sized oil export pipeline can constrain the production profile as much as lower than expected net pay or permeability.

GCA has seen projects where significant increases in Reserves

Continued on page 6



Drew Powell is currently Global Operations Director for GCA, based in the United Kingdom. He is responsible for ensuring the delivery of high-quality pertinent advice to GCA's clients. Drew is a chemical engineer with over 20 years' petroleum industry experience and with a particular expertise in oil and gas field development, cost estimating and technical due diligence

**Gaffney,
Cline &
Associates**

Holistic View

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and NPV have been achieved through simple processes such as installation of wellhead oil-water separation (effectively debottlenecking the export pipeline), implementation of better well-kill processes (90% reduction in required well count), and oil treatment to remove sulphur (thereby increasing oil value). None of these projects had any change to sub-surface definition but each exhibited significant Reserves growth and NPV increase.

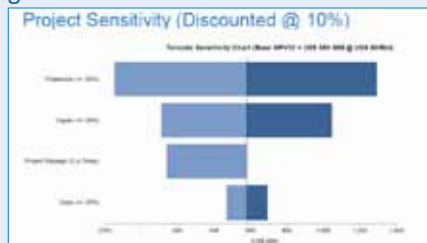


Figure 2. Project Sensitivity (Discounted @ 10%)

The industry generally suffers under the belief that undertaking complex subsurface assessments through modelling or analytic derivation will mitigate the majority of project risk and uncertainty.

Consequently, the wellhead onwards tends to be the poor cousin with less effort, time and investment given to surface facility and operational specification and in particular to development of robust CAPEX derivations. Thus a holistic approach to asset value that treats subsurface and surface risk and uncertainty on an equal footing should improve EY's future assessments of large-capital projects.

Learn, network, and have fun!

Business Development seminar organised by SPE London Chapter- Focus on LNG

This SPE Business Development evening seminar takes place at Imperial College London. The event is aimed at a broad audience for technical and non-technical individuals.

This event will showcase two talks focusing on insights into the LNG industry. The speakers' talks will encompass a global LNG introduction, plus various current hot topics within the LNG industry: including current trends, challenges and other interesting aspects of the industry.

There will be Q&A sessions, and networking opportunities during the event.

Speakers:

Anders Norlen - McKinsey Energy Insights

Anders is an energy market specialist with seven years' experience in the broader energy industry. He has worked in various oil and gas marketing, strategy and business development roles in Norway, the US and Saudi Arabia. In the last two years, he has worked as a consultant for McKinsey, serving a wide range of clients in the oil, gas and power space.

Boris Ertl - BP

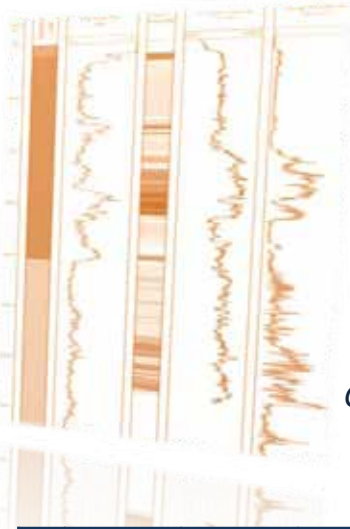
Boris is BP's advisor for LNG and gas monetisation. Since graduating in Chemical Engineering in 1985, Boris has worked for contractors and consultants in the energy industry, including roles in technology, engineering management, project management and discipline leadership. Joining BP in 2006, Boris has led BP's LNG technology programme as well as advising projects and operations in LNG, gas monetisation, process engineering and energy efficiency.

TICKETS and MORE INFORMATION:
<http://bit.ly/2e8oZN4>

When & Where

Imperial College (Skempton building)
 Prince Consort Drive
 SW7 2AZ London
 United Kingdom

Wednesday, 23 November 2016 from 18:00 to 21:00 (GMT)



Petrophysics 202 - Advanced Formation Evaluation



Thursday 20th October 2016

The Geological Society, Burlington House, London

Got a grasp on Basic Formation Evaluation, but not sure about the best way to handle those more complex environments? Never dealt with cased wells before & want to know what it's all about? Then, this seminar is for you...

	Start time	End time	Speaker	Company	Talk Title
	09:00	09:30	Registration		
	09:30	09:40	Michael O'Keefe	LPS	Welcome & Introduction
1	09:40	10:15	Kevin Corrigan	Independent Consultant	What is Advanced Formation Evaluation?
2	10:15	10:45	Roddy Irwin	Rockflow Resources LTD	Shaly sand evaluation in the total & effective porosity systems: Know the difference!
	10:45	11:15	Break		
3	11:15	11:45	Iain Whyte	Tullow Oil	Resistivity in thin beds...some case studies
4	11:45	12:15	Michel Claverie	Schlumberger	A review of low-resistivity & low-resistivity contrast pay with focus on Africa
5	12:15	12:45	Steve Cuddy		Using fractals to determine a reservoir's hydrocarbon distribution
	12:45	13:45	Lunch		
6	13:45	14:30	Geoff Page	Baker Hughes / SPWLA	Joint Interpretation of Magnetic Resonance - and Resistivity-based fluid volumetrics: A framework for petrophysical evaluation
7	14:30	15:00	Richard Dawe	Retired Consultant	The problem of the high permeability streak
	15:00	15:30	Break		
8	15:30	16:00	Mike Lovell	Leicester University	Shale gas petrophysics; key parameters, assumptions, and uncertainties
9	16:00	16:30	Chiara Cavalleri	Schlumberger	Improved cased-hole formation evaluation: the value of new fast neutron cross-section measurements & high definition spectroscopy
10	16:30	17:00	Colin Carter	Independent Consultant	Getting more for less
	17:00	17:10	Michael O'Keefe	LPS	Closing Comments
	17:10 onwards		Refreshments		

*£150 for delegates (LPS is not VAT registered). Students can register for free
Includes lunch and post-seminar wine and savouries.*

Doors open at 9am.

For more info or to register for this event please visit www.lps.org.uk/events/

Being Gender Smart



Inge Woudstra is the author of 'Be Gender Smart – The Key to Career Success for Women', and is Director of W2O Consulting & Training. She works with organisations on female talent management, and specialises in gender difference at work. Inge gives thought-provoking talks, consults on diversity programmes and runs Gender Smart training programmes for leaders, managers and women.

This article is a synopsis of Inge's presentation at the SPE London evening event at Imperial College, London, in September.

Gender Smart Teams – Lessons from Neuroscience and Biopsychology

Most diversity initiatives have a focus on 'fixing the women'. They are teaching women generic leadership skills as well as how to have more confidence, find a sponsor, expand their network, exude gravitas and build their profile.



Recent research by, for instance McKinsey and KPMG, shows that the focus needs to change from 'fixing the women' to 'fixing organisations'. They find that especially line managers play a vital role in the advancement and retention of women. These line managers

are not giving women the management support they need. Considering that clients are increasingly female, and – even in science and engineering – increasingly graduates are female, this is no longer sustainable.

Men and women are different

Of course, organisations and their line managers aren't failing women on purpose. They are just not aware that men and women may need a different approach. After all, for many years, organisations in oil and gas have been focussing on equality and equal treatment of men and women, and talking about difference was taboo. And, indeed, women now do work in oil and gas and are respected for their contribution.

However, just equality and equal treatment is not enough. It is found that 50-60% of women are leaving organisations between the age of 30-40, or are plateauing in their career. Work-family reasons are just one of the factors. Women also cite they feel undervalued, excluded and don't see any opportunities for advancement. They just do not feel at home in organisations designed for men. They feel like a fish out of the water.

Research in psychology, biology and neuroscience shows that men and women may be equal but that they are not the same.

There are differences between men and women

Of course, we are more the same than different. We can do the same jobs and achieve the same. However, the differences

make women have to adapt to organisations, like a fish having to grow arms to climb a tree. This takes time and energy, and women often realise – after a number of years – that they have turned into someone they no longer recognise.

"Human beings are much more than their gender, they are individuals."

To create top performance, it's worth to be aware of those differences at work, and rather than asking women to adapt, change the teams and organisations they work in. In other words to be Gender Smart.

The differences that are key at work are that women find security differently, communicate about achievements and ambition in a different way and are also not motivated and inspired in the same way.

Actions to Create Organisations that Work for Women

There are many things organisations can do to create organisations that are Gender Smart and work better for women. It's all about becoming aware of the key differences that are relevant at work, and then applying those insights to areas such as recruitment, advancement, and leadership.

Here are my personal top three of easy-to-implement actions:

- *Invite women for promotions, stretch projects and programmes for high potentials*

Women tend to be hesitant in putting themselves forward, taking their place at the table and broadcasting their achievements. This is not because they lack confidence, it's because they compete on 'being nice'. In groups of girls, the nicest girl, with the best relationships, is at the top of the hierarchy. It's not nice to ask for a pay rise, emphasise your own brilliance or suggest you are ready for a high-profile project. It's tough to unlearn this behaviour at work as it has been linked to security and position from a young age.

Instead, organisations need to ensure that women are invited for promotions, stretch projects or programmes for high potentials. They need to make sure that team managers ask their team for their ambitions, rather than wait for

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Being Gender Smart

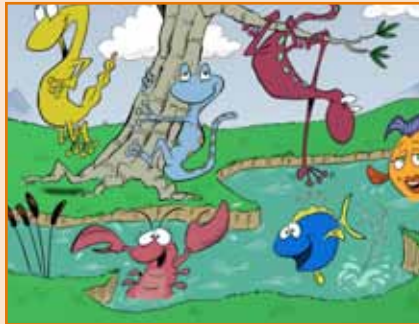
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people to put themselves forward. HR can measure e.g. the number of women on shortlists, in training programmes and on high profile projects to check for gender balance.

- *Ensure women have a peer group network*

Women tend to find it harder to be promoted. This is because women find their security in a group of friends; after all, a friend will not attack you. Men find their security in their position; after all, when you are at the top no one dares to attack you. It's no surprise then to learn that creating (support)groups works better for women. Research in The Netherlands found that female head teachers perform better when given a group of peers. Finding a safe place to bond, share experiences and talk about concerns can improve confidence, motivation and self-appreciation. Find ways to ensure senior women have access to peer groups like that in your organisation or outside of it.

- *Teach line managers to flex their style*
Many women aren't motivated in the same way by challenges,



targets and status as most men are. It's easy to see that when you compete on being the best, targets and status works. For women though, additional ways of motivation need to be added. Many women are, for instance, motivated by helping others, and working in a team with people they enjoy working with. So you need to make sure that line managers leading mixed gender teams are aware of these kind of gender difference and can flex their style.

Gender dichotomy or individual

Last but not least, be aware that we are all individuals and not all women are the same. Of course it's impossible to make a clear dichotomy between men and women. Human beings are much more than their gender, they are individuals.

Once you are aware, you can make sure to add ways that work for women to your current systems and approaches, and ensure you get the best performance out of both men and women. You may well find that some of your new approaches work well for some men too. In this way you create truly gender smart teams.

Introduction to Exploration & Production: 12th Annual Seminar - November 17, 2016

The 'Introduction to E&P' seminar provides an introduction to the full life cycle of oil and gas fields. In addition to covering the basics in exploration, geoscience, drilling, operations, reservoir management and commercial terms, speakers will bring out key issues faced by the industry.

The seminar is aimed at people working in financial and E&P environments, who are new to the industry and/or would benefit from an understanding of the technical processes and the key elements in oil and gas projects. Presentations will be at a basic level and attendees will develop a good overall view across all upstream disciplines. The seminar is also appropriate for people working indirectly with oil and gas companies, or providing support services.

Why you should attend:

- * You will learn from 8 industry experts, speaking on their specialised areas.
- * Full printed handouts will be provided, enabling you to concentrate on the learning, not writing notes.
- * You can download the presentations in pdf format, after the event.
- * Time to network and talk with the speakers and other attendees, from a wide range of careers paths
- * Lunch and refreshments are included

Who should attend:

Staff and contractors: graduates, legal staff, investors, analysts, accountants, finance, logistics, IT, technical assistants, secretarial, procurement, recruitment and HSE.

Venue: Geological Society, Burlington House, Piccadilly, London, W1J 0BG

TICKETS!
Earlybird before
17 October 2016:
<http://bit.ly/2cG4iab>

Transition Training Adapting to Industry Challenges



Are you or any of your colleagues in a career transition?

IHS Markit is here to help you succeed. We recognise the current challenges within the industry, and want to assist you in preparing for your next career move. Whether you are a new graduate, between jobs or returning from overseas we are here to help.

IHS Markit is pleased to offer energy industry professionals experiencing career transition an opportunity to develop/update technical product skills in support of career development. Complimentary training classes are available for the IHS Markit Engineering Software.

For further information, please contact the IHS Markit Education Training team: engineering.training@ihsmarkit.com

Please note: complimentary training is only available in London for RTA fundamentals and RTA Getting Started.

Examples of available resources:

IHS Markit Engineering Training

Rate Transient Analysis Fundamentals using IHS RTA Training

This one-day training has been designed to maximise the value of your production data for conventional wells. You will be able to characterise your reservoirs and forecast your production combining the use of several powerful techniques.

This course provides a comprehensive methodology that combines theory and key concepts of production data analysis with practical diagnostics and workflows for analysing your own wells. Previous experience with the software is not required for this training.

This training has been carefully designed for Engineers and Technologists involved in any of the following areas: exploitation, reserves, production/operations and well testing for conventional wells. This course will benefit oil and gas professionals interested in getting additional mileage out of their production and flowing pressure data.

This training will help you:

Identify reservoir and well flow regimes, determine reserves, OGIP/OOIP and drainage area, identify reservoir parameters such as permeability and skin, perform production data history match using advanced analytical and numerical history match models, assess well performance and identify optimization candidates, and evaluate data quality and quantify analysis uncertainty (with the use of two case examples).

IHS Markit Engineering Training 'Getting Started' series

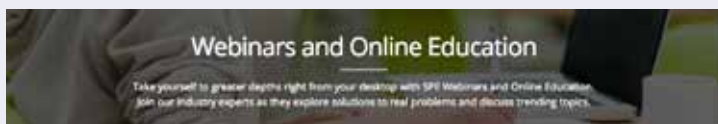
IHS Harmony – Getting Started IHS DeclinePlus – Getting Started IHS RTA – Getting Started

Get familiarised with the basic features and functionalities of IHS Harmony, IHS DeclinePlus and IHS RTA software, by joining us on our introductory software 'Getting Started' series.

The 'Getting Started' series consists of three 1.5 hour classes in which students learn:

How to add data to projects, edit attributes, query, view data plots, export data, conduct simplified DeclinePlus and RTA workflows to Conventional wells and create custom templates and workflows to streamline their work (theory and applied knowledge is beyond the scope of these classes).

Seats are limited; please register your interest now to reserve a place.



SPE Webinars and Online Education
Upcoming webinars in October include Live Events
More information: <http://bit.ly/2dyWii7>

EVENTS: Upcoming events 2016

25 October 2016 (London)

October London Section evening programme meeting

Lectures on Human Factors in Barrier Thinking (SPE Distinguished Lecturer); and Acquisition and Divestiture Data Room Optimization (InfoSys).

More information: <http://bit.ly/2dL3MyI>

27 October 2016 (London)

Introduction to Management Consulting in the Oil and Gas industry

Have you ever wondered what management consultants do in Oil and Gas and wanted to learn more about it? SPE YP London and Boston Consulting Group (BCG) are offering the opportunity for SPE Young Professionals to learn more about management consulting in the oil and gas industry.

More information: <http://bit.ly/2dVnfZf>

08 November 2016 (Abu Dhabi, UAE)

The Abu Dhabi International Petroleum Exhibition and Conference (ADIPEC)

Since its inception in 1984, ADIPEC has provided an unrivalled platform for industry experts to come together and share knowledge and meet with peers. The multi-disciplinary conference is intended for international and regional oil and gas professionals, who are involved in both the technical and non-technical functions within the industry.

For more information, and to register: <http://bit.ly/2e4Yr4K>

08 November 2016 (Aberdeen)

SPE ICoTA Conference

SPE ICoTA Pre-Conference Short Course: An Introduction to Safe and Effective Well Operations. Delegates will gain an understanding of why and how a well is constructed and the importance of maintaining well control throughout the drilling and completion process.

For more information, and to register: <http://bit.ly/2dQn3uY>

15 - 17 November 2016 (London)

PESGB- PETEX 2016

The UK's largest subsurface-focused E&P conference and exhibition. To date, PETEX 2016 has over 100 companies represented, including BP, BG Group, OMV, Shell, TGS, CGG, ION. PESGB and SPE members get discounted rates, from £170 for a three day conference ticket to £40 for a concessions rate ticket.

For more information, and to register: <http://bit.ly/2dKcokY>

17 November 2016 (London)

12th Annual Seminar

The "Introduction to E&P" provides an "end to end" introduction to oil and gas field developments led by leading experts. In addition to covering "the basics" in exploration, projects, drilling, operations, reservoir management and commercial terms, speakers will bring out key issues faced by the industry.

For more information, and to register: <http://bit.ly/2c5Aarj>

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Consultant Listings

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Oleum Khaos Ltd: First quartile Petrophysics, 30+ years' experience, field studies, well planning, peer assist / review, project management. +44 (0)1252 416396 info@oleumkhaos.com www.oleumkhaos.com

Alan Taylor: Reservoir engineering, simulation, well modelling for oil & gas field development planning. Southern Reservoir Engineering Ltd. ajt.sre@btinternet.com Mob: +44 (0)7785 544485 Dir: +44 (0)1305 751677

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