

April 2019

SPE Review London

The official e-magazine of the Society of Petroleum Engineers' London branch

Identify, Inspire and Nurture!

Encouraging and developing future leaders in engineering

PLUS+

- * Negotiating for a Gender-Balanced Future
- * Letter from the Chair
- * What's happening? Upcoming events



London Section

BEHIND THE SCENES

MEET THE BOARD

EVENTS

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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 global events, publications, events, training courses and online resources at www.spe.org. SPE London section publishes SPE Review London, an online newsletter, 10 times a year, which is digitally sent to its 3000+ 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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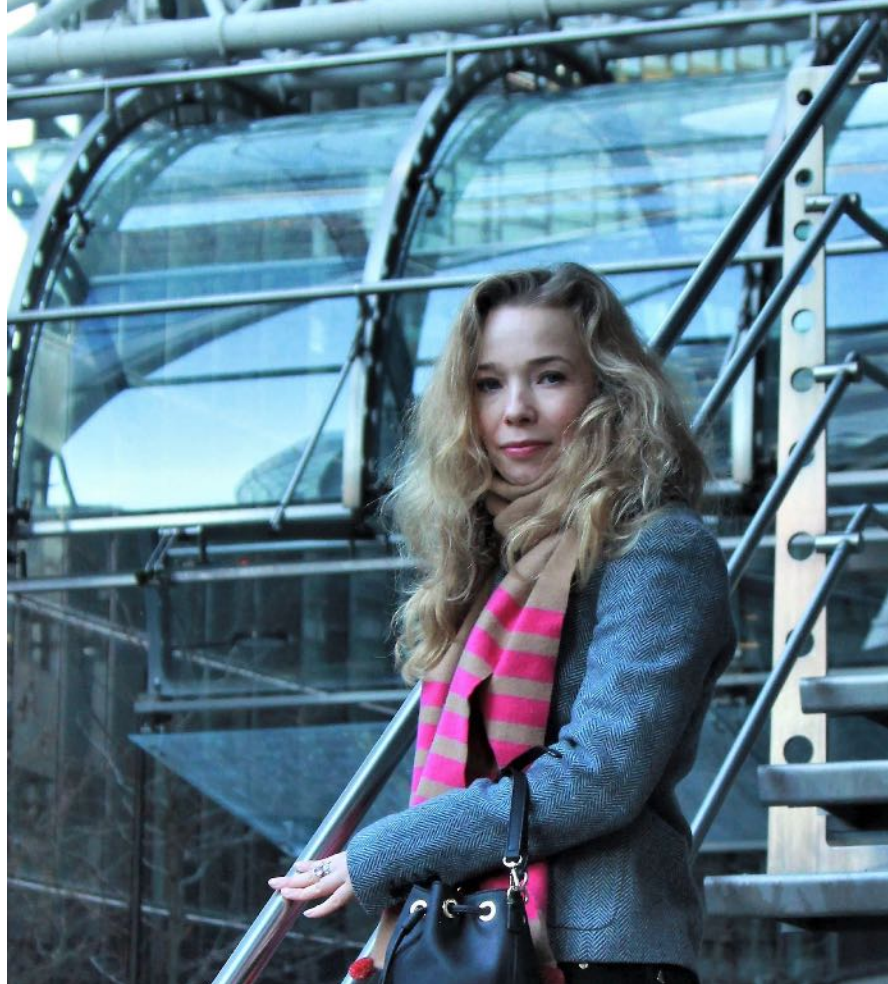
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Share your experiences and stories online

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



Behind the Scenes: SPE Review Editorial Board



Jonathan Ovens

After graduating from Cambridge University with a Ph.D in Physics, Jonathan joined Shell in 1986. Reservoir Engineer – hydraulic fracturing, pressure transient analysis and reservoir simulation.

1997 - 2012: independent consultant: North Sea, North Africa and the Middle East.

Experience: Exploration and Development planning to Reserves Evaluation.

2013: Senior Reservoir Engineer at JX Nippon E&P (UK) Ltd.

2009 and 2015 served with SPE Europec Technical Committee.

Member of the SPE London Board.

Josh Beinke

Graduated from University of Adelaide in 2008 with a Petroleum Engineering degree. Worked various roles with Chevron, Origin Energy and Santos, including as a Production Engineer on the Gorgon Field during First Gas. Following move to Europe in 2016, consulted on European and African assets (specialising in data room and field development advisory) before current position working in Amsterdam as a Production/Exploitation Engineer with Vermilion Energy.



Ffion Llwyd-Jones

Editor and business writer, with 15+ years experience in North America/ UK.

Editor for several trade and consumer magazines (print and/online).

Provides industry-related case studies, and detailed, research-driven B2B Designer reports and technical white papers.

Accomplished photographer, and videographer.

Educated in Canada, and in the UK, with BA (Hons) from The Open University.



Quick two-question survey for all SPE London members

Background: at SPE London, we are a wide community of students and professionals. On one side, Young Professionals (YP, all SPE members, including students below 35 yo) are growing into their roles and sometimes seek support from Senior Professionals (SP), but the opposite is also true.

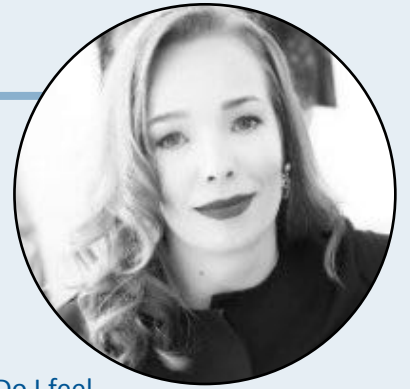
We fully realise that SPs (all of us 36 yo and above) sometimes struggle to keep up with the wave of digitisation, for example social media, high-tech numerical simulation or machine learning techniques.

A possible solution: more collaboration between Young Professionals and Senior Professionals, within companies and within SPE London.

But on which topic ? what topic matters most for us in SPE London?

This is why we are asking you: **follow the survey link [HERE](#) to take part in this multiple-choice survey.**

Thank you very much for your time. The topics with the most votes will be selected for our collaborative evening event to be announced soon.



Letter from the SPE London Chair

Dear colleagues and friends!

Welcome to the April edition of our monthly online magazine.

In this month's letter I would like to touch on the topic I receive quite a lot of questions on – what is it like to be a woman engineer in the oil and gas industry? Do I feel there are equal career opportunities in oil and gas for men and women in the 21st century?

Unfortunately, statistics still indicate a big gender gap especially when it comes to technical roles (see, for example **the WPC/BCG report on the gender balance in oil and gas (LINK)**). From my experience, back when I was involved into the offshore operations, it was always funny and sad at the same time how I was perceived as being a part of the catering crew rather than an engineer when waiting in the heliport to be transferred to the rig to start the work shift. Moreover, even when it comes to the 'office' jobs the gender diversity is mostly concentrated in staff support roles – such as human resources, finance and legal. There are several problems here. First, how to attract and boost the women participation in the STEM programs? Second, how to increase the attractiveness of the industry as a technical career choice for women?

The other concern is related to the lack of women in leadership when it comes to the mid-career and the executive level. Of the top 20 companies in the energy sector, only 8% of executive committee members (i.e. employees reporting directly to the CEO) are female.

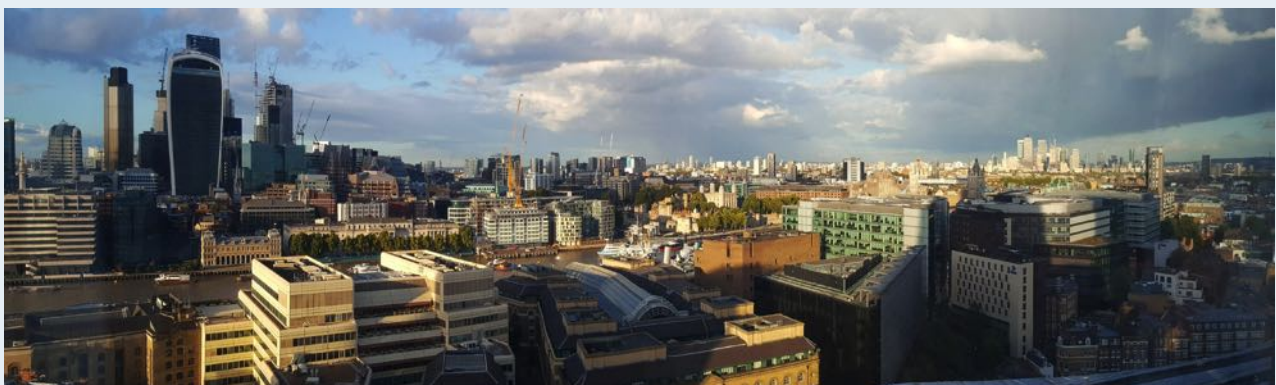
Here in SPE London we care about the situation with the gender gap in the oil industry. That is why we created a dedicated committee – the Women in Energy. Every year since 2006 the committee runs its biggest event – a one-day seminar – addressing the challenges that women in oil and gas are facing. This year won't be an exception. The seminar is scheduled for 14 June. I would highly recommend it for attendance which is, by the way, not limited to the women only. On the contrary, we welcome our male colleagues to contribute to the discussion, share your vision of the gender situation in the industry and hear how this perhaps affects you.

More details of the event and how to sign up could be found on our website, social media and further in this issue.

As usual, please let us know of any thoughts, questions, ideas you have and do get in touch by writing to **SPELondon@spemail.org**

Best regards,

Dr Olga Bradulina
SPE Chairperson



Inspiring future engineering talent



The London Section of the SPE is pleased to inform members that the board has recommended it re-establishes the relationship with the Arkwright Engineering Scholarship. The purpose is to bring influence to schools and high-performing year 11 students that there remains an attractive career within the oil and gas industry. The industry faces several well-publicised challenges such as the Climate Change debate, widespread use of plastics, rise of renewable energy and government initiatives, all of which are providing a negative backdrop in the minds of young students. Additionally, the rise of data science and artificial intelligence as new and attractive businesses puts pressure on the ability of the oil and gas industry to compete in attracting science and engineering-minded students. In re-establishing our relationship with Arkwright, the board believes we are making a relevant contribution to ensure the oil and gas industry is well placed to attract quality science and engineering talent into its workforce.



Arkwright awards ceremony

Within this article you will hear from SPE member, Richard Prior, who has directly benefited from an Arkwright scholarship and from Arkwright's business development manager, Steven Kay, who outlines the Scholarship program.

Any members wishing to know more about how the SPE is working with Arkwright, please contact Adrian Southworth (SPE Sponsorship chair) at: adriansouthworth@me.com



The sole purpose of the Arkwright Engineering Scholarships programme is to identify outstanding technology-minded students, inspire and nurture them to go on and become our future leaders in engineering. Arkwright has offered scholarships for over 28 years and is a major initiative provided by The Smallpeice Trust, which has over 50 years' experience delivering quality STEM enrichment activities.

The Arkwright programme has more than 800 current scholars and has seen 5000+ scholars come through this prestigious and highly sought-after Engineering Scholarship. These talented scholars are found through a selection process that invites teachers of year 11 students from over 1,000 UK schools to recommend their best students to apply.

Applicants must all sit a two-hour technical design aptitude exam and a face-to-face panel interview to qualify for the scholarship award. Successful scholars are then matched with their interests to a sponsor and presented with their award at one of our award ceremonies in London and Edinburgh. The Arkwright Engineering Scholarship runs throughout the two years of A level or Scottish Advanced Highers.

One of the keys to success is the partnerships with our corporate sponsors, who provide amazing opportunities for industry engagement including site visits, work experience, mentoring and guidance on career opportunities. Our supporters cover engineering in its widest sense from materials to mechanical; aerospace to automotive; structural to chemical; electrical to IT; power to component design, and everything in between.

Our records show that 92% of Arkwright Scholars go on to study engineering at university or higher-level/degree apprenticeships.

It is our belief that a strong future for the UK economy depends on the quality of young people who choose to pursue engineering careers and we do all we can throughout our scholarship programme to encourage and develop a pipeline of future engineering talent.

More information can be found on our website: www.arkwright.org.uk



Inspiring future engineering talent continued

Richard Prior is the Arkwright Scholarship Liaison for SPE. Below, he outlines his views on the numerous benefits the scheme provides for both students and for SPE.

It is difficult to identify, even with the benefit of hindsight, the tangible factors that steer students toward a certain career. I am in a privileged position to say that, as an alumnus of the Arkwright scheme, the scholarship I received between 2012-14 significantly influenced me towards studying Chemical Engineering and, following my graduation in 2018, working as a Process Engineer.

For a scholar there are numerous benefits provided by the Arkwright scheme - and no article or website, regardless of length, can do justice in representing them all. A scholarship directly opens opportunities to develop an existing interest in engineering, allows networking with like-minded students, and a £600 provision from Arkwright allows students - regardless of background - to peruse extracurricular engineering projects and activities. The scheme also provides a platform on which to apply for work experience and university courses – an invaluable benefit in an increasingly competitive world.



Richard Prior, Arkwright scholarship liaison for SPE

The benefits of the Arkwright scheme extend from a purely academic perspective and for many students, including myself, the Arkwright Scholarship gave rise to a myriad of ‘firsts’. My first non-academic professional exam, my first competency interview and my first visit to university facilities were all valuable experiences from the application process alone. And sponsorship from SPE London, with opportunities to attend monthly seminars and speak to E&P students and professionals alike, was an amazing chance to develop technical knowledge and soft skills, directly enhancing my application to universities and internship schemes.

Involvement with Arkwright also gives invaluable benefits to SPE. Climate change, anti-plastic campaigns and the rise of renewable energy to compete with existing fossil fuels are all issues that the Millennial and Generation Z populations are keen to voice their opinions on. This creates a perception within the student body that the oil and gas industry does not offer an appealing and impactful career. These same students are the source of potential engineers, geo-scientists, data scientists and technologists that the oil and gas industry will need, to supply energy, fuels and products to a growing world while advancing the energy transition.

As the oil and gas industry embraces data science, machine learning and artificial intelligence, it will find itself in direct competition with fashionable careers in data science, management and the wider technology industry. Through Arkwright, the SPE can influence individuals and schools, promoting the benefits of a career in the oil and gas industry that not only continues to deliver value to the world, but also requires talent to solve the complex and incredibly important challenge of providing fuel and energy in a sustainable manner.

I can still remember receiving a call from Arkwright – seven years ago and on the way back from a Duke of Edinburgh expedition – informing me of my success in obtaining a scholarship. I look back with fondness and incredibly high regard at the opportunities that this scheme provides students.

As Arkwright Liaison for SPE, I am excited at the prospect of providing the same inspiration to those who are going through this process all these years later.

Negotiating for a Gender-Balanced Future

SPE Women in Energy 13th Annual Conference

Women in Energy (WiE) is an annual seminar organised by volunteers and hosted by the Society of Petroleum Engineers, London Section, where leaders of the industry get together to discuss how to achieve gender balance from a personal level to the corporate and industrial level. It is a full-day event including keynote speakers, workshops, panel discussions and opportunities for networking. The event has historically attracted 150-250 attendees per year, of all levels of seniority in the energy sector from new starters to CEOs.



This year, the conference will have a focus on negotiation skills, themed 'Negotiating for a Gender Balanced Future'. Negotiation skills can't be overestimated. Your role and how you are viewed in your organisation are almost constantly up for negotiation: salary, promotions, responsibilities... Practice and preparation is key to presenting your best self in a balanced workplace.

Join us on 14 June at the Keyworth Centre (London Southbank University SE1 6NG) for an action-packed day that will leave you feeling inspired, supported, more connected and ready to take on your personal and professional challenges with fresh energy.

Event: SPE Women in Energy 13th Annual Conference
 Date: June 14th 2019
 Time: 9am – 5pm
 Venue: Keyworth Centre, London Southbank University SE1 6NG
 Tickets: [via Eventbrite \(LINK\)](#)

Our line-up this year includes a keynote speech from Louise Kingham OBE FEI, Chief Executive of the Energy Institute, as well as panel discussions with Jane Whaley, Editor-in-Chief of GEOEXPRO Magazine and Kahina Abdeli-Galinier, VP Marketing SLB – SIS. Our workshops will include practical sessions in 'Advocating for Change', and 'The Cleopatra Effect'. We continue to add more influential contributors to the day, which promises to be both enriching and exciting.

Hope to see you there!



SPE London Evening programme **Spring 2019**

Join us for the London Section evening meetings!

In addition to lectures by renowned industry professionals, including Distinguished Lecturers, you can enjoy drinks and a networking buffet.

Be sure to look out for email alerts with registration and ticket details, or *check out the SPE London website events page.*

We look forward to seeing you at the next event!



Steve Cuddy (Distinguished Lecturer) presented at the March 2019 meeting.

Schedule: April - May 2019

30 April 2019

Before Dinner Topic/Speaker: **The fluid dynamics of multiphase displacement in reservoir rocks**
Alessio Scanziani, Imperial College; Catherine Spurin, Imperial College

After Dinner Topic/Speaker: **Deep QI - a machine-learning approach to quantitation interpretation**
Ehsan Naeini, PhD, Ikon Science

28 May 2019

The afternoon will start at 4pm with a presentation of this year's two best Field Development projects by the MSc in Petroleum Engineering students from the Centre for Petroleum Studies, Imperial College London. The Field Development project is a group integrated study of the evaluation and development of a North Sea oil field (currently, Wytch Farm).

Each team will have 20 minutes for their presentation, plus five minutes for questions. The audience will then help select the best presentation, which will be awarded the Colin Wall prize, named after one of the founding petroleum engineering professors from Imperial.

The prize (£300 in £1 coins) will be given at the dinner.

Before Dinner Topic/Speaker: **Creating a Worldwide Unconventional Revolution Through a Technically Driven Strategy**

Dr Basak Kurtoglu, Distinguished Lecturer, 2016-17 and Quantum Partners

After Dinner Topic/Speaker: **'Near Real-Time Updating of Production Forecasting'. Machine learning/data driven modelling/production forecasting**

Martha Stunell, Resoptima

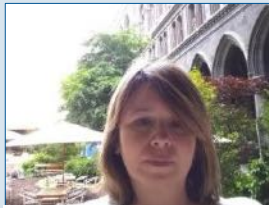


Meet the SPE London Board

SPE is a non-profit professional society with 164,000 members in 143 countries. The SPE London Section, with an average 2,000 members and seven associated student chapters, is an active section with an aim to connect, engage and promote the exchange of knowledge within the London energy community of technical and commercial professionals. The SPE London Board is the policy-making and governing body, consisting of volunteers who devote time to overseeing many of SPE London's administrative and operating responsibilities.



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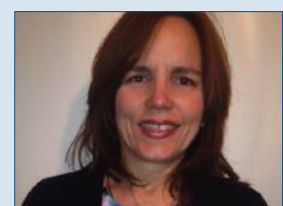
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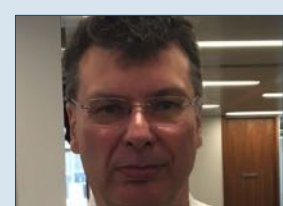
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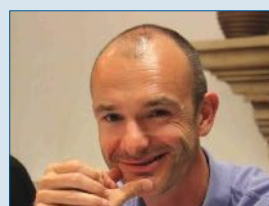
Alain Gringarten
Director



Jonathan Ovens
Director/SPE Review Editor



Arnaud Mille
Director



Vincent Penasse
Senior Professionals Liaison

What's happening: Events, May 2019 onwards

SPE International events 2019, and see page 8 for local London events

14 May **SPE Norway One Day Seminar** Bergen, Norway
The SPE One Day Seminar is the key annual forum for discussion points, industry developments and technical challenges facing upstream oil and gas not only in the Norwegian Continental Shelf, but also the wider E&P industry.

03-6 June **SPE Europec featured at 81st EAGE Conference and Exhibition** London, UK
SPE EUROPEC 2019 at the 81st EAGE Conference & Exhibition is the largest and most comprehensive multi-disciplinary geoscience event in the world. The 2019 theme is Embracing Change - Creativity for the Future.

19-20 June **SPE Gaia Summit: Oil and Gas on the Right Side of History?** Fontainebleau, France
The GAIA Summit and subsequent events are being designed to help the industry be more proactive, even more collaborative, and create a more joined up conversation that mobilises forces and resources not yet in the service of the sustainability challenges we should be in the center of resolving and trusted to do so.

26-27 June **SPE Workshop: Digital Transformation in E&P: What's Next, Ready to Scale-up?** Paris, France
The purpose of this workshop is to provide attendees with insights, inspiration, and lessons about how to make digital transformation work for them.

06 September **SPE Offshore Europe Conference and Exhibition** Aberdeen, UK
Connecting the Global Upstream Offshore Oil & Gas Community
SPE Offshore Europe is recognised by offshore E&P professionals as Europe's leading E&P event. Attending will ensure you are up to date with the most significant technologies and can connect with a global network of 36,000+ attendees.

05-06 November **SPE Workshop: Production Optimisation in Gas and Oil Assets** The Hague, The Netherlands
The Production Optimisation in Gas and Oil Assets workshop is a high-quality event where experts, operators, and service companies share their latest developments, successes, and failures on late-life production topics. This workshop aims to improve and accelerate the development of activities to optimise late-life production in gas and oil wells and assets.



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Energy Community

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