

UK SHALE GAS 2016: THE ENGINEERS' SUMMIT

Organised by

Institution of
**MECHANICAL
ENGINEERS**

23 February 2016
Institution of Mechanical Engineers, London

More details available at
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KEY SPEAKERS INCLUDE:

Ken Cronin
Chief Executive
UK Onshore Oil and Gas

Donald Dobson
Head of Discipline - Well Engineering
and Operations
Health and Safety Executive

Mike Stephenson
Director of Science and
Technology and Chief Scientist
British Geological Survey

Process Industries Division
Seminar



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UK SHALE GAS 2016: THE ENGINEERS' SUMMIT

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UK SHALE GAS 2016 IS A UNIQUE OPPORTUNITY FOR ENGINEERS TO UNDERSTAND HOW THEY CAN CONTRIBUTE TO THE UK SHALE GAS INDUSTRY AND SUPPORT THE FUTURE SUPPLY CHAIN.

The UK's energy crisis is slowly but surely getting worse and finding suitable solutions to it are at the forefront of the government's mind. The arguments for and against shale gas have expanded and now feed into the wider energy security and climate change debate.

We know that the UK offers fruitful shale gas potential both in its resources and in its ability to keep the lights on. With The UK Oil & Gas Authority awarding 159 blocks for onshore oil and gas exploration in December 2015 and the government stating "alongside conventional drilling sites, we need to get shale gas moving", investment and support is only going to continue to grow. Given that Amber Rudd is driving it forward, it is clear that shale gas is a suitable solution to ensuring that the UK can sustain its future energy consumption.

UK Shale Gas 2016 is a must-attend event for engineers to discover how they can ensure their organisation is at the forefront of future energy consumption.

WHO SHOULD ATTEND?

- Engineering Manager
- Senior Piping Manager
- Managing Director
- Well Services Director
- Chief Engineer
- Director of Operations
- Director of Engineering
- Process Engineer
- Sector Manager Oil and Gas
- Fracking Team Leader
- Piping Engineer
- Project Manager/Engineer
- Pressure Relief Engineer

⊕ ATTEND THIS SEMINAR TO:

- **Identify** how the UK shale gas industry is trying to change public perception
- **Recognise** the continuous role that engineers play in shale gas extraction
- **Hear** from industry leaders as they share their thoughts on how to progress shale gas development within the UK
- **Understand** what the next steps are to ensure a well-supported supply chain is maintained in the UK
- **Hear** the progress on the IMechE/IoM3 Onshore Well Integrity Survey
- **Network** with industry peers and share a unique insight into future energy consumption

KEY SPEAKERS INCLUDE:

- Ken Cronin, Chief Executive, UK Onshore Oil and Gas
- Donald Dobson, Head of Discipline - Well Engineering and Operations, Health and Safety Executive
- Mike Stephenson, Director of Science and Technology and Chief Scientist, British Geological Survey

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PROGRAMME

| TUESDAY 23 FEBRUARY 2016 | |
|--|---|
| 08:30 | REGISTRATION AND REFRESHMENTS |
| 09:00 | CHAIR'S OPENING REMARKS JAMES BRIDGE, CHAIR OF PROCESS INDUSTRIES DIVISION, INSTITUTION OF MECHANICAL ENGINEERS |
| ENERGY SECURITY - WHERE SHALE GAS FITS | |
| 09:10 | SHALE GAS, ENERGY SECURITY, CLIMATE CHANGE AND ECONOMY KEN CRONIN, CHIEF EXECUTIVE, UKOOG <ul style="list-style-type: none">Representing the UK oil and gas onshore industry and supporting the exploration and production of shale gasWorking with the industry to ensure guidelines are established and implemented effectivelyUKOOG's main areas of priorities to boost shale gas development between 2015 and 2020Energy Security, Economy and Climate Change |
| 09:40 | PUTTING SUB SURFACE ENERGY OPERATIONS UNDER SCRUTINY MIKE STEPHENSON, DIRECTOR OF SCIENCE AND TECHNOLOGY AND CHIEF SCIENTIST, BRITISH GEOLOGICAL SURVEY <ul style="list-style-type: none">Role of the subsurface in low carbon energy in the UKScience of subsurface operationsThe ESIOs project |
| 10:10 | REGULATION OF SHALE GAS WELLS DONALD DOBSON, HEAD OF DISCIPLINE - WELL ENGINEERING AND OPERATIONS, HSE <ul style="list-style-type: none">Well integrity – the regulatory approachWhat regulations requireSupporting guidance |
| 10:40 | NETWORKING REFRESHMENT BREAK |
| SHALE GAS PLANNING | |
| 11:00 | ENVIRONMENTAL RISKS AND REGULATION IN ENGLAND TONY GRAYLING, SUSTAINABLE BUSINESS AND DEVELOPMENT, ENVIRONMENT AGENCY <ul style="list-style-type: none">The role and approach of the Environment Agency in regulating onshore oil and gasWorking with HSE to ensure that environmental standards are metEngaging with local communities on environmental permitting decisions |
| 11:30 | CASE STUDY: PLANNING AND PREPARATION JOHN BLAYMIRE, COO, IGAS ENERGY |
| 12:00 | BEST PRACTICE IN SHALE GAS EXPLORATION GRAHAM DEAN, MANAGING DIRECTOR, REACH CSG <ul style="list-style-type: none">How to reduce the geological riskUnderstanding the political riskPast shale gas explorationWhere future shale gas exploration will be in the UK |
| 12:30 | SHALE GAS PROCESSING SOLUTIONS ADRIAN FINN, MANAGER OF PROCESS TECHNOLOGY, COSTAIN <ul style="list-style-type: none">Gas processing requirements for shale gas commercialisationProcess technologies and their applicationDevelopments to reduce gas process cost |
| 13:00 | NETWORKING LUNCH |
| UK ONSHORE WELL INTEGRITY | |
| CHAIR JENIFER BAXTER, HEAD OF ENERGY AND THE ENVIRONMENT, INSTITUTION OF MECHANICAL ENGINEERS | |
| 14:00 | OVERVIEW OF THE WELL INTEGRITY STUDY JAMES BRIDGE, CHAIR OF PROCESS INDUSTRIES DIVISION, INSTITUTION OF MECHANICAL ENGINEERS <ul style="list-style-type: none">Why the IMechE wanted to get involved with Well IntegrityObjectives for the projectPulling the team togetherPreparing the reportDesired outcome |
| 14:30 | OIL AND GAS UK WELL LIFE CYCLE INTEGRITY GUIDELINES NIGEL PARRY, FORMERLY WELL ENGINEERING TEAM LEAD, NEXEN UK LTD <ul style="list-style-type: none">Scope and Style of the GuidelinesOil & Gas UK Well Integrity Workgroup and InterfacesEvolution of the UK Well Integrity GuidelinesThe Development of Issue 3 |
| 15:00 | THE ROLE OF INDEPENDENT WELL EXAMINATION PETER ROBINSON, NON EXECUTIVE DIRECTOR, NRG WELL EXAMINATION LTD <ul style="list-style-type: none">The regulations applicable to well examinationThe role and competence of the well examinerWell standards and well examinations |
| 15:30 | NETWORKING REFRESHMENT BREAK |

For the most up-to-date and detailed programme for the event, please visit events.imeche.org/ukshalegas

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

PROGRAMME

| TUESDAY 23 FEBRUARY 2016 (CONT.) | |
|----------------------------------|--|
| | OPERATIONS |
| 15:50 | QUANTIFICATION OF THE RISKS ASSOCIATED WITH AQUIFER CONTAMINATION DURING A HVHF JOHN DEWAR, DIRECTOR, OIL AND GAS, THIRD ENERGY MARK BOULT, DIRECTOR, DNV.GL <ul style="list-style-type: none">• Explanation of possible leak paths during a HVHF and identification of the most likely leak path• Explanation of how well integrity is created and tested with an assessment of failure rates• Quantification of the risks associated from a failure in well integrity |
| 16:20 | APPLYING OFFSHORE WELL DESIGN, CONSTRUCTION AND MONITORING STANDARDS TO AVOID WELL INTEGRITY FAILURES KENNETH MCINTOSH, COMPLETION ENGINEER, INDEPENDENT <ul style="list-style-type: none">• Principles of well design and construction• Lessons from the US, Lessons from the UK• Barriers: Principles, confirmation and monitoring.• Leak detection and repair |
| 16.50 | WELL INTEGRITY PANEL DISCUSSION DONALD DOBSON, HEAD OF DISCIPLINE- WELL ENGINEERING AND OPERATIONS, HSE JOHN BLAYMIRE, CEO, IGAS ENERGY PETER ROBINSON, NON EXECUTIVE DIRECTOR, NRG WELL EXAMINATION LTD |
| 17:20 | CHAIR'S CLOSING REMARKS |
| 17:30 | END OF SEMINAR |

ORGANISING COMMITTEE
Process Industries Division, Institution
of Mechanical Engineers

Members Credits:
James Bridge, Chairman of the Process Industries Division,
Institution of Mechanical Engineers

SPEAKERS AND CONTRIBUTORS

CHAIR AND
SPEAKER

JAMES BRIDGE
CHAIRMAN OF THE PROCESS INDUSTRIES DIVISION, INSTITUTION OF MECHANICAL ENGINEERS
Following a mechanical engineering apprenticeship with Hamworthy Engineering in Poole, he specialised in application engineering, focussing on the oil & gas industries, Moving to SPP Pumps in 1978 he took responsibility for diesel and gas engine packages, rising to be General Manager of SPP Offshore. He moved to Caterpillar Power Systems in 1997, specialising in Internet data centres and hospital UPS systems. Returning to the oil and gas business in 2004, he rose to the rank of Petroleum Business Development Manager. He left Caterpillar in 2013

CHAIR

JENIFER BAXTER
HEAD OF ENERGY AND THE ENVIRONMENT, INSTITUTION OF MECHANICAL ENGINEERS
Jenifer Baxter CEng, CSci joined The Institution of Mechanical Engineers as Head of Energy and the Environment in May 2015. Jenifer is responsible for providing expert guidance and support on all mechanical engineering aspects of energy and the environment, with particular themes this year on waste, heat, water and hydraulic fracturing for shale gas. Prior to joining IMechE, Jenifer was Head of Enterprise and Innovation at the University of East London, responsible for developing collaborative relationships with businesses, academics and the wider UEL community, delivering social and technological innovation and embedding enterprise into student life at the University. Jenifer has been a Research Project Manager and Lecturer of research methods in the Engineering Department at the University of South Wales specialising in advanced engineering and materials; and before undertaking her PhD in 2009 Jenifer spent six years working for the Welsh Government as a Waste Strategy Advisor.

Jenifer has a PhD from Cardiff University in technological innovation systems examining hydrogen from waste technologies, an MSc in Sustainability, Planning and Environmental Policy and a BEng in Environmental Engineering also from Cardiff University.

Jenifer is a member of both the Institution of Mechanical Engineers and the Energy

KEYNOTE SPEAKERS

KEN CRONIN **CHIEF EXECUTIVE, UKOOG**

Ken Cronin is the Chief Executive of the newly re-launched trade body UKOOG (UK Onshore Oil and Gas). UKOOG is the representative body for the UK onshore oil and gas industry including exploration, production and storage across both conventional and unconventional sources. The organisation's objectives are to enhance the profile of the onshore hydrocarbons industry, promote better and more open dialogue with key stakeholders, deliver industry wide initiatives and programmes and to ensure standards in safety, the environment and operations are maintained to the highest possible level. Ken has more than 20 years' global experience in media, investor and government relations and has worked in and with many companies across the nuclear, renewables, oil and gas and power sectors. Prior to his role at UKOOG, Ken spent 10 years at worldwide communication agency Kreab Gavin Anderson as Head of Global Energy.

MIKE STEPHENSON **DIRECTOR OF SCIENCE AND TECHNOLOGY AND CHIEF SCIENTIST** **BRITISH GEOLOGICAL SURVEY**

Mike Stephenson is Director of Science and Technology/Chief Scientist at the British Geological Survey. He has done research in the Middle East and Asia, including highlights in Oman, Jordan, Pakistan, Iran and Afghanistan. Mike runs the Science Programme at BGS, the UK's national geoscience and data centre, with 520 scientists and technologists. He has professorships at Nottingham and Leicester universities and has published over seventy peer-reviewed papers, while also acting on the editorial boards of several journals, and as Editor-in-Chief of an Elsevier geological journal. His new book 'Shale gas and fracking: the science behind the controversy' was published in February 2015.

DONALD DOBSON BSC, MEI, SPE **HEAD OF DISCIPLINE, WELL ENGINEERING,** **HEALTH AND SAFETY EXECUTIVE**

Donald Dobson has 40 years' experience in drilling engineering both in industry and as industry regulator. Working for BP, his roles included designing wells and planning operations for the company's global oil and gas exploration programme and assessing new drilling technology. He was co-author of BP's drilling manual. In his current role in HSE, he acts as technical authority for well engineering and operations. He was a lead member of the team that developed the current regulations on well integrity. He is a member of several industry work groups, including those producing guidance on well integrity and well abandonment.

MARK BOULT **DIRECTOR, DNV.GL**

Mark Boulton is highly experienced in providing risk management and analysis support to organisations in a range of industries including oil and gas. He has held a number of management and consulting positions during a career of over 30 years and has international experience having worked overseas in a number of different countries. He was the Manager of the Technical Investigation for the Longford Royal Commission into the Fire and Explosion that occurred at Esso Facility in Longford, Victoria, Australia. He led, on behalf of the European Commission, the analysis and evaluation of the effects of the practical application of national legislation related to safety and health at work in mineral extraction through drilling (Directive 92/91EC) post the Madcondo accident. Currently Mark is a Director in DNV GL's UK operations with a specific role on continuing the development and growth of the business, building customer relations, leadership of the unconventional O&G network and oversight of DNV GL's ERM services in the region. In this role he is supporting risk management in oil and gas companies including; BP, Tullow, Third Energy and E.ON E&P.

JOHN BLAYMIRE **CHIEF OPERATING OFFICER, IGAS ENERGY**

John Blaymires has 29 years of international experience in the oil and gas industry gained at Hess Corporation and Shell International. Before joining IGas, he was Director of Technology Development for Hess based in Houston.

SPEAKERS AND CONTRIBUTORS

SPEAKERS

PETER ROBINSON

NON EXECUTIVE DIRECTOR, NRG GROUP

Peter Robinson graduated with an Honours Degree in Geology and following a period working on exploration rigs as a mud logger, unit chief and data engineer in South East Asia he joined the UK Department of Energy as a Senior Well Operations Inspector. Returning to work in the Department of Energy he became a Principal Inspector then Acting Head of Inspection North Sea for the Petroleum Engineering Division. Following transfer to the Health and Safety Executive Offshore Safety Division he was appointed Deputy Director Operations - and was also seconded to the Field Operations Division as the Area Director for North West England.

NIGEL PARRY

FORMERLY WELL ENGINEERING TEAM LEAD, NEXEN UK LTD

Nigel Parry was Well Engineering Team Lead for Nexen from 2011 until retiring in October 2015. He had been with Nexen since 2006 and was Senior Drilling Engineer and Drilling Superintendent prior to that. The role of Well Engineering Team Lead focused on Well Integrity, Completions Engineering and UK Management System within Drilling and Completions as well as being the Wells Technical Authority for Nexen. Nigel was a member of the Well Life Cycle Integrity Guidelines subteam of Oil & Gas UK from 2011 until 2015. Nigel started working in the North Sea as a Petroleum Engineer with BP. He then worked for several operators in Aberdeen variously as Senior Drilling Engineer, Drilling Superintendent and Well Examiner before joining Nexen.

ADRIAN FINN

PROCESS TECHNOLOGY MANAGER, COSTAIN

Adrian Finn is Process Technology Manager at Costain, Manchester, UK with responsibility for process technology selection, development and commercialization, proposal management and supervision of feasibility studies, Pre-FEEDs and FEEDs. He has thirty two years with Costain, focused mainly on gas processing. He has authored fifty technical papers and holds nearly twenty granted patents in gas processing. He holds a Bachelor's degree in Chemical Engineering and Fuel Technology and a Master's degree in Integrated Design of Chemical Plant. He is a Fellow of the Institution of Chemical Engineers, a Chartered Engineer in the UK and a Member of both the Management and Programme Committees of Gas Processors Association (GPA) Europe.

DR TONY GRAYLING

DIRECTOR OF SUSTAINABLE BUSINESS AND DEVELOPMENT, ENVIRONMENT AGENCY

Tony Grayling leads the Environment Agency's work on some major cross-cutting issues including climate change, energy, health, sustainable development and environmental incident management. He is currently also leading the agency's work on onshore oil and gas. He was previously a special adviser to David Miliband and Hilary Benn, successive Secretaries of State for Environment, Food and Rural Affairs, helping to design the UK's Climate Change Act 2008. From 2002 to 2006 he was an associate director and head of the sustainability team at the Institute for Public Policy Research, a UK think tank, which he joined in 1999 as a research fellow. He was a special adviser to the Minister for Transport, Gavin Strang, from 1997-98 during the development of the UK governments 1998 transport white paper and before that a researcher successively to Labour MPs Ron Davies and Anne Campbell. Educated at Thorpe St Andrew School, Norwich and Fitzwilliam College, he has a first class degree in natural sciences and a PhD in plant sciences both from Cambridge University.

GRAHAM DEAN

MANAGING DIRECTOR, REACHCSG

Graham Dean is managing Director of ReachCSG. ReachCSG is focused on Cumbrian & Scottish Gas. ReachCSG, together with the Licence operator INEOS, has a large PEDL licence in the Scottish central belt. ReachCSG also has licences onshore and offshore Barrow-in-Furness for gas exploration offshore from onshore. Graham has had a long undistinguished career in the oil and gas business. He is a petrophysicist and a petroleum engineer. Prior to joining Reach, Graham had a Business Development role at Centrica where he gained a wealth of A&D and negotiating experience, always unsuccessful.

KENNETH MCINTOSH

UNITED KINGDOM OIL AND GAS INDUSTRY

Kenneth McIntosh has spent 18 years working in the offshore UK oil & Gas industry for numerous major operators including Marathon Oil, Shell and Statoil. Kenneth has worked in well design and construction, including integrity monitoring and has also led an offshore Frac campaign as Team Leader.

BOOKING FORM

EVENT CODE: S6337

EARLY BIRD ENDS
22 JANUARY 2016

UK SHALE GAS 2016:
THE ENGINEERS' SUMMIT

23 February 2016
Institution of Mechanical Engineers, London
events.imeche.org/ukshalegas

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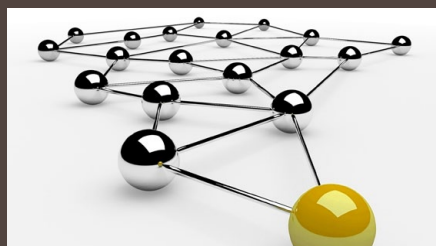


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Institution of Mechanical Engineers, London

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