

SMi present their 5th annual conference on...

Shale Gas Environmental Summit

27th & 28th
OCT
2014

Holiday Inn Regents Park Hotel,
London, UK

CONFERENCE CHAIRS:

- **Julian O'Halloran**, Reporter, **BBC**
- **Alan Riley**, Professor of Law, City Law School, **City University**

KEY SPEAKERS:

- **Mark Ellis-Jones**, Onshore Oil & Gas Programme Executive, **Environment Agency**
- **Paul Crossley**, Leader of the Council and Liberal Democrat Group Leader, **Bath and North East Somerset Council**
- **Nick Grealy**, Publisher, **No Hot Air**
- **Harry Huyton**, Head of Climate and Energy Policy, **RSPB**
- **Jim Marshall**, Policy and Business Advisor, **Water UK**
- **Ken Cronin**, Chief Executive, **UK Onshore Operations Group**
- **Paul Stevens**, Distinguished Fellow, Energy, Environment and Resources, **Chatham House**
- **John Ord**, Business Director – Thermal Power & Energy Networks, **MWH Global**
- **Alan Riley**, Professor of Law, City Law School, **City University**
- **Marianne Pascal Flynn**, Geoscientist Research Fellow, **IASS**

...and many more!

WHY ATTEND THIS EVENT:

- **Understand** the environmental risks and regulation of shale gas exploration
- **Examine** the global impact of natural gas in reducing carbon via coal and oil to gas substitution
- **Evaluate** the risks that shale gas poses to the natural environment
- **Analyse** the strategies for waste water disposal from shale gas drilling
- **Review** the impact of shale gas on the water industry
- **Discuss** the supply chain of shale gas in the UK

PLUS FULL DAY INTERACTIVE POST-CONFERENCE WORKSHOP • WEDNESDAY 29TH OCTOBER • 8.30AM - 5.00PM

Shale Gas - An Unconventional Resource

Hosted by:

Ian Woolen & Patrick Seferovich, **PI Energy Consultants**

www.shalegassummit.co.uk

Register online or fax your registration to +44 (0) 870 9090 712 or call +44 (0) 870 9090 711

8.30 Registration & Coffee

9.00 Chairman's Opening Remarks
Julian O'Halloran, Reporter, **BBC**

REGULATORY OVERVIEW PART I

9.10 Environmental Risk and Regulation of shale gas exploration

- Overview of the environmental risks of shale gas
- Environmental regulations and permits
- Streamlining regulation

Mark Ellis-Jones, Onshore Oil & Gas Programme Executive, **Environment Agency**

9.50 The legal environment surrounding shale gas in UK

- The recent development in shale gas policy
- Complying with regulatory regimes
- Regulations from Brussels

Elizabeth Shepherd, Partner – Head of Environment, **Eversheds**

10.30 Shale gas in the UK

- Overview of the current situation in the UK
- Impact of shale gas on carbon emissions
- How to effectively and efficiently promote shale gas in the UK while addressing environmental concerns?
- Examples from the US

Paul Stevens, Distinguished Fellow, Energy, Environment and Resources, **Chatham House**

11.10 Morning Coffee

IMPACT ON CLIMATE CHANGE AND WILDLIFE

11.40 The global impact of natural gas in reducing carbon via coal and oil to gas substitution

- It's called **global** warming for a reason. The reality behind UK and EU CO2
- Can the success of the US in cutting carbon be replicated worldwide?
- China and natural gas: This can change everything
- The problem of coal and some solutions
- The Paris 2015 Climate Treaty. Reasons for optimism

Nick Grealy, Publisher, **No Hot Air**

12.20 Shale Gas: The risk for the natural environment

- Risks to the natural environment
- Overview of the current situation
- What are the changes that need to be made to public policy in order to mitigate the risks?

Harry Huyton, Head of Climate and Energy Policy, **RSPB**

1.00 Networking Lunch

2.10 Facts and myths about shale gas and the climate change

- Meeting climate change target: what role can/does shale gas play?
- How much carbon can be emitted to avoid dangerous climate change?
- The future of gas in the energy mix

Alan Riley, Professor of Law, City Law School, **City University**

IMPACT ON WATER PART I

2.50 Drilling for shale gas: its potential impact on the hot springs of Bath

- Effects of drilling on hot springs
- Impact on Bath and the local community

Paul Crossley, Leader of the Council and Liberal Democrat Group Leader, **Bath & North East Somerset Council**

Phil Mansfield, Group Manager Building Control, **Bath & North East Somerset Council**

3.30 Afternoon Tea

4.00 Protecting our water: Impacts of shale gas on the water industry

- Water quality, water quantity, waste water treatment and infrastructure: the impacts are huge!
- Concerns for water companies: water contamination?
- How will water companies dispose of waste water from fracking?

Jim Marshall, Policy and Business Advisor, **Water UK**

4.40 Strategies for disposing waste water

- Waste water from shale gas drilling
- How to dispose of water and chemicals used in fracking?
- Waste water treatment: what is the current situation in the UK?
- Looking ahead: what does the UK need to do to deal with waste water from fracking?

John Ord, Business Director – Thermal Power & Energy Networks, **MWH Global**

5.10 Chairman's Closing Remarks and Close of Day One



WHO SHOULD ATTEND THIS CONFERENCE:

You should attend this event if you are a Chief Executive, Chief Scientific Officer, Vice President, Head, Director, Associate, Project Leader, Manager in the following areas:

- Energy Consultants
- Government Officials and Policy makers/advisors
- Project developers
- Strategists, planners and analysts
- Environmental Educators, Professors or Consultants
- Geologists and Engineers
- Business Development Managers
- Company executives
- Anyone interested in learning about the environmental aspects of shale gas
- Campaigners
- Environmental lawyers
- Head of Climate/Energy Policy
- Energy Consultants

8.30 Registration & Coffee

9.00 Chairman's Opening Remarks

Alan Riley, Professor of Law, City Law School, City University

IMPACT ON WATER PART II

9.10 Groundwater monitoring and protection

- The potential contaminants of concern and their management
- Understanding how shale gas and relates contaminants could leak
- How do we know if shale gas in leaking? The importance of a good baseline
- Protecting groundwater: the relationship between shale and aquifers

Robert Ward, Director of Groundwater Science, British Geological Survey

9.50 Supply chain in the UK

- What will it take to build a shale gas pad in the UK?
 - Supply chain
 - Skills
- What can we do in the UK?
- What are the gaps?
- How can we fill the gaps?

Ken Cronin, Chief Executive, UK Onshore Operations Group



10.30 Morning Coffee

REGULATORY OVERVIEW PART II

11.00 Shale gas and planning

- Ensuring operators meet the requirements set out by governing bodies
- Involving local communities
- Understanding fracking and how it is regulated
- How to institutionalise public participation in the planning process

Jake White, Environmental Lawyer, Friends of the Earth

11.40 Shale gas legislation and development in Europe

- Analysis of the legislation of various central and eastern European countries
- Mitigating environmental risks associated by shale gas in Europe
- Key environmental aspects arising in EU and CEE

Kostadin Sirlishtov, Partner, Energy Projects and Construction, CMS Cameron McKenna LLP

12.20 Networking Lunch

PUBLIC ENGAGEMENT

1.30 Shale gas and public engagement across Europe

- An overview and analysis of public engagement approaches across key countries in the EU
- Poland
- United Kingdom
- Ukraine
- Germany

Marianne Pascale Flynn, Geoscientist, Institute for Advanced Sustainability Studies

2.10 Public Acceptance and the role of Industry

- Session details to be confirmed

Kerstin Duhme, Managing Director, FTI Consulting

2.50 Afternoon Tea

3.20 Public acceptance of shale gas

- Issues and barriers to shale gas development
- How to break down the barrier

Michael Holgate, Independent Energy Consultant, Plexus Energy

LOOKING AHEAD

4.00 PANEL DISCUSSION: WRAP UP SESSION

- What have we learnt over the past 2 days?
- What are the future opportunities and challenges?
- What can the Shale Gas Industry do to be environmentally sustainable?
- Q&A

Alan Riley, Professor of Law, City Law School, City University (Panel Chair)

Michael Holgate, Independent Energy Consultant, Plexus Energy

Mark Ellis-Jones, Onshore Oil & Gas Programme Executive, Environment Agency

John Ord, Business Director – Thermal Power & Energy Networks, MWH Global

4.40 Chairman's Closing Remarks and Close of Day Two

Want to know how you can get involved?
Interested in promoting your services to this market?
Contact Daniel Lee on +44 (0)20 7827 6078 or email: dlee@smi-online.co.uk

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About the workshop leaders:



Ian Woollen is a geologist with over 30 years experience at Shell, Britoil, BP and Wood Mackenzie, forming Woollen Consulting in 2006 (technical and commercial advisory and business development). Ian is experienced in all aspects of oil and gas: geology, geophysics, economics and international strategy. He has worked mainly in the USA, Europe and the FSU, onshore and offshore, on conventional and unconventional resources, and on global basin teams that identified and evaluated many regions of interest. Ian is a graduate of Cambridge (BA/MA), South Carolina (MS, PhD) and Strathclyde (MBA) universities. He has worked on shale gas projects in the USA and Europe.



Patrick (Pat) Seferovich is an international oil and gas lawyer with more than 30 years experience in upstream and mid-stream at well-established, reputable international law firms such as Chadbourne & Parke and Denton Wild Sapte, where he was Managing Partner. Pat is now an independent energy consultant. He previously held prominent senior legal positions in independent US exploration companies Davis Oil and Forest Oil, as well as Occidental, managing its Moscow office and setting up one of Russia's longest lasting foreign joint ventures. Pat was also an advisor to the US Federal Energy Regulatory Commission (FERC). A graduate of Arizona State (BA), Virginia (MA, JD) and Denver universities, Pat has worked on shale gas deals and contracts in the USA and Europe.

About the organisations:

Woollen Consulting provides geotechnical, commercial and strategic consulting services for conventional and unconventional resources to the international upstream oil and gas industry. Recent work includes business development, project management and mentoring of technical personnel and management.

Sefero Group provides upstream and midstream legal consulting services to the international oil and gas industry, including M&A work for conventional and unconventional deals, corporate structures and project finance structures. Recent work has been in business development.

PI Energy Consultants

combines Woollen Consulting and Sefero Group, and offers



screening and initial due diligence for upstream oil and gas projects anywhere in the world, including unconventional resources. It also provides industry training and mentoring.

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Shale Gas - An Unconventional Resource

About the workshop:

This shale gas workshop introduces attendees to shale gas resources in different countries, and to how the resource potential may be realised. The technical, commercial, political, legal and environmental problems and solutions are described and discussed. Case studies are presented to illustrate processes and reinforce the need for best practices.

Topics include:

- shale resources in global energy markets
- shale gas in the USA as game-changer, and potential for the rest of the world
- exploration, development and assessment of shale gas resources
- Legal issues and their impact on shale gas development
- Likely future trends in shale gas development.

Who should attend:

Attendees to the shale gas workshop will be introduced to all significant aspects of shale gas exploration, development and production, and should gain a much wider appreciation of shale gas in today's world. Those attending could be from geotechnical, technical, commercial, managerial or legal backgrounds, or simply be involved with shale gas or energy in any other way.

Overview:

Is the world running out of fossil fuels? Perhaps not for many years to come now because of shale gas. Global gas resources have doubled with the advent of abundant gas from shales. Shale gas is a proven economic and industry game-changing fossil fuel in the USA with cheap gas and LNG exports the result. Advanced technologies, such as modern hydraulic fracturing and sophisticated horizontal well emplacement, are required to unlock the gas potential from the low permeability shale reservoirs. Much has been learned from successful development of USA shale gas and such 'unconventional' gas resources could soon be a game-changer in other parts of the world. This master class looks at the global potential for shale gas production, the means by which this can be realised, and barriers to development which need to be overcome.

Programme:

8.30	Registration & Coffee
9.00	Chairman's Opening Remarks
9.10	Global Energy and Shale Resources
9.40	Shale Gas in USA and Canada
10.30	Morning Coffee
11.00	Shale Gas in Europe and Rest of World
12.00	Legal Issues and Contracts
12.30	Networking Lunch
1.30	Legal continued
2.00	Reserves and Resources
2.30	Afternoon Tea
2.45	Exploration and Development Methods
3.30	Case Histories
4.15	News and Trends
5.00	Chairman's Closing Remarks and Close

Continued overleaf

SHALE GAS ENVIRONMENTAL SUMMIT

Conference: 27th and 28th October 2014 | Holiday Inn Regents Park Hotel | London, UK Workshop: 29th October 2014, London

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www.shalegassummit.co.uk

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