

SMi presents the 6th annual...

# Shale Gas Environmental Summit

Providing a platform for discourse  
on current developments in the industry

Holiday Inn Kensington Forum, London, UK

26 - 27  
**OCT**  
2015



#### CHAIRMEN:



**Julian O'Halloran**,  
Journalist,  
BBC



**Professor Michael Bradshaw**,  
Professor of Global Energy,  
Warwick Business School

#### KEY SPEAKERS INCLUDE:

- **Professor Nigel Brandon**, BG Chair in Sustainable Gas, **Imperial College London** & Panel Member, **Task Force on Shale Gas**
- **Mike Holgate**, Associate, **Aquatera Ltd**
- **Tim Yeo**, Chair of Energy and Climate Change Committee, **House of Commons**
- **Dr Jonathan Scurlock**, Chief Advisor, Renewable Energy and Climate Change, **National Farmers Union**

#### BENEFITS OF ATTENDING:

- Gain a balanced insight and understanding of the science behind the environmental debate on shale gas
- Assess the risks shale gas poses to health and human rights
- Learn about the landscape of the shale industry in Europe

**PLUS TWO INTERACTIVE HALF-DAY POST-CONFERENCE WORKSHOPS**  
Wednesday 28th October 2015, Holiday Inn Kensington Forum, London, UK

#### **A: Shale Gas: Stakeholder Engagement** - **Winning the Societal License to Operate**

Workshop leader: **Michael Holgate**, Independent Consultant,  
Aquatera

8.30am - 12.30pm

#### **B: The Shale Gas Industry in Germany and Europe** - **Legal Frameworks and Gaps**

Workshop leader: **Andy Gheorghiu**, Campaigner & Consultant,  
Andy Gheorghiu Consulting

1.30pm - 5.30pm

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**8.30 Registration & Coffee**

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

**UNDERSTANDING SHALE GAS IN EUROPE**

**KEYNOTE ADDRESS**

**9.10 Regulatory developments for shale gas in CEE**

- The state of legislation in Southeast Europe
- How shale gas in Southeast Europe is progressing
- Key environmental issues and alternatives
- Legislation that might support shale gas in Southeast Europe

**Kostadin Sirlishtov**, Partner, Energy, Projects and Construction, **CMS**

**9.50 The shale gas industry in Germany**

- How progressed is the fracking industry in Germany?
- What is the regulation for shale like in Germany?
- What is the status of opposition to fracking projects in Germany?
- How Germany's decision might impact Europe as a whole

**Andy Gheorghiu**, Campaigner & Consultant, **Andy Gheorghiu Consulting**

**10.30 Morning Coffee**

**IMPACT ON HEALTH AND HUMAN RIGHTS**

**10.50 The human rights implications of shale gas production**

- How does shale gas exploration and production impact human rights?
- What are the biggest risks to human rights
- How are these risks being dealt with?
- How can these risks be mitigated looking to the future

**Dr Damien Short**, Reader in Human Rights, School of Advanced Study, **University of London**

**11.30 Discussing the link between shale gas and health**

- The research regarding the impact of shale gas on health
- What are the concerns regarding health?
- The ways these risks may be mitigated
- Recommendations for regulation and best practice

**Dr David McCoy**, Director, **Medact**

**12.10 Networking Lunch**

**AN OVERVIEW OF THE WATER CONCERNS**

**1.40 Induced seismicity from shale gas development in the UK: The role of fluid migration**

- What techniques can be used for detecting leaks?
- What tells you that water is leaking?
- How can the impacts be minimised?
- Best practice for protecting the drinking water

**Robert Westaway**, Senior Research Fellow, School of Engineering, **University of Glasgow**

**2.20 Dealing with wastewater from shale gas fracking**

- Flowback and produced water contaminant analyses
- Re-use in fracking operations
- Treatment processes and disposal of residues
- Environment Agency permits and regulation
- How will fracking operators deal with wastewater?

**John Busby**, Director, **John Busby Ltd**

**3.00 Integrating water management**

- Recognising the risks a shale gas industry could have on water
- What should the role of water and sewerage companies be?
- How can we limit the impacts on the water environment?
- Conclusions for the progression of fracking

**Laura Grant**, Policy Advisor, **CIWEM**

**3.30 Afternoon Tea**

**REGULATION AND LICENCES**

**4.00 Unconventional gas and oil – the view from the outside of the perimeter fence**

- The development of unconventional gas and oil puts great emphasis on the role of technology and regulation as a guarantor of safety.
- The debate over standards and regulation has largely excluded direct public involvement.
- Is the contradiction between promoting safety, and yet excluding the public from the debate on standard, driving the public's rejection of unconventional gas?

**Paul Mobbs**, Proprietor, **Mobb's Environmental Investigations and Research**

**4.40 The shale gas industry from a county council's perspective**

- How a county council can process the many planning applications
- Ensuring the opinions of local residents are heard
- How we can ensure that Hampshire's environment is cared for

**Lisa Kirby-Hawkes**, Project Manager - Minerals and Waste Policy, **Hampshire County Council**

**5.20 Chairman's Closing Remarks and Close of Day One**

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8.30 Registration & Coffee

9.00 Chairman's Opening Remarks

**Professor Michael Bradshaw**, Professor of Global Energy, Warwick Business School

**KEYNOTE ADDRESS**

9.10 Why the UK needs exploratory drilling

- What is the current debate based on?
- What exploratory drilling will be able to tell us
- Environmentally friendly approach to exploratory drilling

**Professor Michael Bradshaw**, Professor of Global Energy, Warwick Business School

**UNDERSTANDING THE PERSPECTIVES OF NGO'S**

9.50 The impact of hydraulic fracturing on Sussex's environmental habitats

- The ways in which fracking impacts on the surrounding environment
- Which of these are the most worrying to the Sussex Wildlife Trust?
- Are there ways of minimising these risks?
- Our views on regulation and controls

**Dr Tony Whitbread**, Chief Executive, Sussex Wildlife Trust

10.30 Morning Coffee

10.50 Future opportunities and concerns for agriculture

- NFU's policy position on unconventional gas and oil
- Our approach based on evidence to hand from a pre-commercial industry
- Farmers/grower opportunities from exploration and production only through access rights to land
- Key policy asks to reassure the agricultural sector

**Dr Jonathan Scurlock**, Chief Advisor, Energy and Climate Change, National Farmers Union

**IMPACT OF SHALE ON THE PUBLIC**

11.30 Why is it essential for the public to be informed?

- How a shale gas industry is right for the UK
- In what ways might the industry improve their relationship with the public
- What more must be done to ensure the public are educated on the facts of shale?
- What may the most effective ways of achieving public endorsement be?

**Tim Yeo**, Chair of Energy and Climate Change Committee, House of Commons

12.10 Networking Lunch

1.40 The role of shale gas in energy security

- The role of shale gas in the energy system
- The impact of shale gas on UK energy imports
- How much will shale gas be able to contribute to the UK's energy security
- Being realistic about the benefits of a shale gas industry in Europe

**Professor Nigel Brandon**, BG Chair in Sustainable Gas, Imperial College London & Panel Member, Task Force on Shale Gas

2.20 Why are the public ultimately against fracking?

- What are the reasons behind this?
- Are these reasons valid?
- How could these problems be mitigated

**Mike Holgate**, Energy Consultant, Associate, Aquatera Ltd

3.00 Afternoon Tea

3.20 The importance of health and safety in a shale gas industry

- What are the biggest risks to the health and safety of workers?
- How can these risks be mitigated and minimised?
- Recommendations for regulation
- Enforcing the regulation in all UK sites

**Tony Almond**, Shale Gas Policy, Health and Safety Executive

**MEASURING THE IMPACT ON THE ENVIRONMENT**

4.00 The bigger climate picture - measuring fugitive methane emissions

- Learning from North America
- Technology for methane measurements
- Test facility for technologies
- About the FuME project
- Recommendations for UK shale - a look forward

**Marieke Beckmann**, Research lead, Centre for Carbon Measurement, National Physical Laboratory

4.40 How does shale gas play a role in the transition to a low carbon energy system?

- What potential does shale gas realistically have for being low carbon?
- Is shale gas economically viable
- Could a shale gas industry have a role in long term carbon reduction?

**Professor Paul Ekins OBE**, Professor of Resources and Environmental Policy Director, UCL Institute for Sustainable Resources, University College London

5.20 Hearing the new research on the impacts of methane

- What was our research focused on?
- What is now clear from our research
- The resulting impacts on the environment
- Conclusions to be drawn and recommendations for the future

**Dr Clare Bond**, Senior Lecturer, Geology and Petroleum Geology, University of Aberdeen

6.00 Chairman's Closing Remarks and Close of Day Two

Supported by



## **A: Shale Gas: Stakeholder Engagement - Winning the Societal License to Operate**

Workshop Leader:

**Mike Holgate**, Energy Consultant, Associate, **Aquatera**

### **Overview of workshop:**

This interactive workshop will take you down the rocky road of stakeholder engagement. We'll be working out whom you need and don't need to talk to, how best to work with them and when. We'll cover identifying the planning and operational issues associated with mitigating and monitoring environmental and social impacts. We'll also discuss community benefits and facilitating sustainable investment, as well as engaging with external stakeholders and understanding their key concerns, such as climate change.

### **Why you should attend:**

Your business is finding and exploiting hydrocarbon resources. You may be forgiven for not understanding too much about how to approach the softer, real and perceived issues, but you need to be every bit as successful here as in other parts of your operations if you want to minimize the risk of delays and setbacks. This interactive workshop will help you understand the typical environmental and social issues associated with shale gas developments and ways to construct effective management plans. We will help get you started on the right foot through understanding the underlying issues, how to create successful stakeholder relationships and earn the trust to help you stay there.

### **Programme**

<b>8.30</b>	<b>Registration and coffee</b>
<b>9.00</b>	<b>Opening remarks</b>
<b>9.10</b>	<b>Identifying &amp; engaging with stakeholders</b>
<b>9.50</b>	<b>Managing community environmental and social impacts</b>
<b>10.30</b>	<b>Coffee break</b>
<b>11.00</b>	<b>Community Benefit</b>
<b>11.30</b>	<b>Understanding Stakeholder Issues</b>
<b>12.20</b>	<b>Closing remarks</b>
<b>12.30</b>	<b>End of workshop</b>

### **About the workshop host:**

Michael is an energy consultant with over 25 years' experience in the oil, renewable energy and carbon management sectors. While based in the Orkney Islands, he spent 15 years working offshore as a drilling fluids consultant. During his time onshore he had a unique opportunity to see how oil development affected a small island community at first hand. He went on to broaden his environmental skills in the oil & gas sector working as an environmental advisor and sustainable development manager for international oil & gas projects for clients including Shell, BP, Agip, the Georgian Government and the EU INOGATE program. His interest in shale gas started with a review of the environmental and social risks arising for 3 Legs Resources. He has subsequently written and presented his views on the responsible development of shale gas in a number of fora including Poland and Lithuania at the invitation of government. Michael is an advisor to the UK Shale Gas Task Force.

### **About Aquatera:**

Aquatera is a sustainable energy consultancy with a wide global portfolio of project experience related to energy. The company is best known for its work in conventional oil and gas and wind, wave and tidal energy. Aquatera specialises in helping project developers find appropriate and optimal pathways for development where they exist. The company also helps governments and communities to examine and pursue energy strategies that provide maximum benefit with minimal impact with a sustainable development framework. Such insight will be critical to the shale gas industry if appropriate development strategies are to be found within an overall sustainable energy framework.

## B: The Shale Gas Industry in Germany and Europe - Legal Frameworks and Gaps

**Workshop Leader:**

**Andy Gheorghiu**, Campaigner & Consultant,  
**Andy Gheorghiu Consulting**

**Overview of workshop**

This workshop will take a look at how progressed the shale industry in Germany is along side the regulation. We will focus on a number of areas including how democratic the process has been and how opposition groups are dealing with the prospect of shale. We will then take a look at a case study, and look at the ins and outs of the applications and processes. We will also focus on the minimum principles set out by the EU Commission for the exploration and production of hydrocarbons (such as shale gas) using high-volume hydraulic fracturing and different perspectives on the development in the EU.

**Why you should attend:**

- Get an overview of the German status quo concerning development and legal framework of the shale industry in Germany
- Learn about the dialogue processes between the different stakeholders, the confrontational elements, the obstacles and the existing administrative and legal inadequacies
- Learn about the case in North-Hesse where a permission license was denied because of the predominant public interest using regional planning and energy policy elements
- Understand the minimum principles of the EU Commission on fracking projects
- Analyse the Member States' replies to the questionnaire on measures they put in place in response to the Recommendation of the EU Commission on minimum principles for the exploration and production of hydrocarbons
- Assess whether or not the legal framework in Germany and Europe is sufficient to address the risks and impacts of the shale / fracking industry and try to identify the legal gaps
- Discuss whether or not the intense debate is in proportion to the amount of the estimated technically recoverable hydrocarbons

**Programme**

- 1.30 Registration and coffee**
- 2.00 Opening remarks**
- 2.10 Understand the progresses and regulatory landscape of fracking industry in Germany and Europe**
- 2.50 Looking into a case study of a shale gas application in North-Hesse**
- 3.30 Coffee tea**
- 4.00 EU Minimum Principles & German legal framework**
- 4.40 EU Minimum Principles & Member States and understanding different perspectives**
- 5.20 Closing remarks**
- 5.30 End of workshop**

**About the workshop host:**

**Andy Gheorghiu**, a former public servant, got involved in the anti-fracking movement when an international oil and gas company requested a permission license for shale gas development in North-Hesse, Germany.

He wrote legal advices / statements / articles and gives lectures concerning the different aspects of legal framework in Germany. He also contributed to the building of a stronger European network.

Meanwhile he works as a full-time freelance campaigner and activist for climate/environmental protection, energy policy and the further development of democratic processes. Last year, he contributed as a researcher and author to the Friends of the Earth report "Fracking Frenzy."

In February 2015 he participated in the anti-fracking conference in Fermanagh, Northern Ireland, as the key note speaker.

# SHALE GAS ENVIRONMENTAL SUMMIT

Conference: Monday 26th & Tuesday 27th October 2015, Holiday Inn Kensington Forum, London, UK Workshops: Wednesday 28th October 2015, London

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