

# Global Shale Gas Forum

Prospects for Europe and Emulating the USA's Success in Capitalising from Unconventional Gas Reserves

Berlin, Germany

6th – 8th September, 2010

Including Half Day Interactive Pre-Conference Workshop:  
**Advanced Micro-Seismic Reservoir Characterisation and Reservoir Monitoring**

Attending this **marcus evans** Forum Will Enable You to:

- **Gain** an overview of regional shale gas activities
- **Benefit** from successful U.S. shale gas explorer's experience
- **Capitalise** on the unlimited potential of shale gas market
- **Evaluate** the prospects of shale gas and commerciality
- **Learn** about the latest exploration and production technologies including sweet spot seismic analysis, hydraulic fracturing, wire logging and horizontal drilling
- **Discuss** how to mitigate risks and protect from license conflicts

Learn from Key Practical Case Studies:

- **Talisman's** shale gas hunts in the U.S. and Europe
- **3Legs Resources's** exploration activities in Poland and Germany
- **Eni S.p.A.'s** assessment of shale gas prospects and production commercial viability
- **Total E&P's** advanced technologies to guarantee winning a shale play lottery ticket
- **EuroGas, Inc.'s** shale gas project in Ukraine and license doubts
- **San Leon Energy Plc.'s** strategies in diversifying portfolio through shale gas, shale-hosted oil and oil shale
- **M-I Swaco's** experience in hydraulic fracturing in North America

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Position Yourself  
at the Forefront of

**the Global Shale Gas Hunt  
to Maximise Your Long-Term Profits**

**marcus evans**

In The Chair:

**Dr. Mike Stephenson**  
Head of Science, Energy  
**British Geological Survey**

**marcus evans** Expert Speaker Panel:

**Basim Faraj, Ph.D.**  
Unconventional Gas Specialist,  
New Plays  
**Talisman Energy Inc.**

**Wolfgang Rauball**  
CEO & Chairman  
**EuroGas, Inc.**

**Alex Fraser**  
CEO  
**3Legs Resources**

**Enrico Cingolani**  
Senior Vice President East Europe  
Program, E&P  
**Eni S.p.A.**

**Dr. Jeremy Boak, Ph.D.**  
Non Executive Director  
**San Leon Energy Plc**  
Director of Center for Oil Shale  
Technology & Research  
**Colorado School of Mines**

**Dr. Mike Stephenson**  
Head of Science, Energy  
**British Geological Survey**

**Andrzej Sikora**  
CEO, President of the Board  
**Instytut Studiów  
Energetycznych Sp. z o.o.**

**Pawel Poprawa**  
Chief Specialist & Head of  
Petroleum Geology Laboratory  
**Polish Geological Institute**

**Graham Tiley**  
General Manager New Ventures  
(Exploration)  
**Shell International Exploration  
and Production B.V.**

**Mike Simpson**  
General Manager  
Unconventional Exploration,  
Global Exploration  
**Nexen Inc.**

**Dr. Francois Lorant**  
Chief Geology Advisor  
**Total E&P**  
Project Manager  
**Institut Francais du Petrole (IFP)**

**Prof. Dr. Gerhard Thonhauser**  
Managing Director  
**TDE Thonhauser Data  
Engineering GmbH**  
Chair of Drilling and Completion  
Engineering of Dept. of Mineral  
Resources and Petroleum  
Engineering

**Montanuniversität Leoben**

**Thomas Geehan Ph.D**  
Senior Advisor Science &  
Technology  
**M-I Swaco**

**Anne-Sophie Corbeau**  
Senior Gas Expert  
**International Energy Agency  
(IEA)**

**Stefan Lochner**  
Economist and Gas Market Analyst  
**Institute of Energy Economics,  
University of Cologne, EWI**

## 6th September 2010

08:30 Registration and Coffee

09:00 Opening Address from the Chair

**Dr. Mike Stephenson**  
Head of Science, Energy  
**British Geological Survey**

### THE QUEST FOR NEW VENTURES

09:10 Opening Address

#### Prospects for Shale Gas in Britain

- Main factors affecting regional gas shale play prospectivity
- Characteristics of Palaeozoic and Mesozoic plays
- Primary geological controls and sweet spots
- Numby and nimby: public acceptance

**Dr. Mike Stephenson**  
Head of Science, Energy  
**British Geological Survey**

09:50 Case Study

#### Shale Gas: A Growing North American Reality and Its Global Implications

- Shale gas production in North America - significant component of the total natural gas mix
- Impact on long-term gas production from Haynesville, Marcellus, Montney and Horn River plays
- Are the North American technologies and expertise transferable with commitment to other parts of the world?
- Natural gas emergence as the fuel of choice

**Basim Faraj, Ph.D.**  
Unconventional Gas Specialist, New Plays  
**Talisman Energy Inc.**

10:30 Morning Coffee and Networking Break

11:00 **Shale Gas Exploration in Poland: Expectations and Hurdles in a Rush Market**

- Geological, geochemical and regulatory triggers for shale gas rush in Poland
- Main geological targets for unconventional gas exploration and their potential
- Exploration regulations and procedures in Poland
- Possible hurdles in development of shale gas projects

**Pawel Poprawa**  
Chief Specialist & Head of Petroleum Geology Laboratory  
**Polish Geological Institute**

11:40 Case Study

#### Can Shale Bring a Revolution to Ukraine?

- Continuity of source rocks in Ukraine
- Political situation and future landscape
- An educational process for the authority
- Advantages of shale play in Ukraine and long term prospect of gas market

**Wolfgang Rauball**  
CEO & Chairman  
**EuroGas, Inc.**

12:20 Luncheon

13:20 Coffee and Networking Break

13:50 Case Study

#### Shale Shall Go South?

- Commercial challenges of unconventional gas developments outside the U.S.
- Realising margins through competitive costs
- Profitable off-take options

**Enrico Cingolani**  
Senior Vice President East Europe Program, E&P  
**Eni S.p.A.**

### THE FASTEST LEARNING CURVE: SUCCESSFUL AMERICAN SHALE PLAYERS

14:30 Case Study

#### Water Resource Issues for Hydraulic Fracturing of Gas-Shale

- Volume of water required to fracture the horizontal gas shale wells
- Recycling fracture flow back water
- Water quality to fabricate the fracture fluid
- Water quality to reduce "formation damage"
- Experience gained in the unconventional reservoirs in North America

**Thomas Geehan Ph.D.**  
Senior Advisor Science & Technology  
**M-I Swaco**

15:10 **Finding Billions in Ancient Mud?**

- Shale gas, shale-hosted oil and oil shale: hydrocarbon rich mudstones across the spectrum
- Production schemes and volumes comparison – growth of new resources
- How rock properties affect fracturing for high production shale-hosted oil wells
- Environmental issues before, during and after production

**Dr. Jeremy Boak, Ph.D.**  
Non-Executive Director  
**San Leon Energy Plc.**  
Director of Center for Oil Shale Technology and Research  
**Colorado School of Mines**

15:50 Afternoon Tea and Networking Break

16:20 Case Study

#### Early Mover Advantage in a World Class Shale Gas Play – Horn River Basin

- Discovery of the correct acreage
- Creating a low-risk, high-return and sustainable strategy
- From site assessment to commercial production
- Fiscal Terms specific to shale gas – the difference between economic and uneconomic
- The importance of surface issue management and our licence to operate

**Mike Simpson**  
General Manager, Unconventional Exploration, Global Exploration  
**Nexen Inc.**

17:00 Panel Discussion

#### Are You Ready to be a Shale Gas Explorer?

- Is this the right time to act and how to speed up shale gas commercialisation?
- How can operators minimise risks?
- Do we need a more transparent legislative framework specifically for shale gas exploration?
- Comparing the environmental impacts in Europe with North America
- Effective public communication to educate stakeholders

*The panel will be joined by speakers of the day*

17:40 Chairperson's Closing Remarks and End of Day One

## 7th September 2010

08:30 Registration and Coffee

09:00 Opening Address from the Chair

**Dr. Mike Stephenson**  
Head of Science, Energy  
**British Geological Survey**

09:10 **Keynote Address**

### **Dissolve Market and Institutional Barriers for Unconventional Gas Development in Poland**

- Examining current development of physical and commercial infrastructure in the Polish gas market
- Legal and institutional framework for unconventional gas trading facilitation
- Potential market barriers for large scale shale gas production
- Identify possible solutions and how to implement changes

**Andrzej Sikora**  
CEO, President of the Board  
**Instytut Studiów Energetycznych Sp. z o.o.**

### VISUALISING THE COMMERCIALITY OF SHALE GAS IN EUROPE

09:50 **Case Study**

#### **Early Stage Shale Gas Exploration in Europe**

- 3Legs Resources introduction
- Portfolio overview:
  - Poland/ Baltic basin
  - Germany/ Baden-Wurttemberg
  - Poland/ Krakow
- Progress to date in Polish Baltic basin
- Challenges met and possibilities for resolution
- Conclusions

**Alex Fraser**  
CEO  
**3Legs Resources**

10:30 Morning Coffee and Networking Break

11:00 **Interactive Roundtable Discussion**

#### **How Economical and Accessible are European Black Shales**

- Commerciality of shale gas
- Critical factors for new venture exploration
- From site assessment to commercial production
- How to gain public acceptance and rights of land?

*Moderator*

**Graham Tiley**  
General Manager New Ventures (Exploration)  
**Shell International Exploration and Production B.V.**

11:40 **Global Impact of Unconventional Gas on the Markets**

- Regional and global impact of the increase of North American unconventional gas
- How companies respond
- Developments in other regions
- Challenges to develop unconventional gas outside of the U.S.

**Annie-Sophie Corbeau**  
Senior Gas Expert  
**International Energy Agency (IEA)**

12:20 **Interactive Roundtable Discussion**

#### **Looking Ahead into 2020**

- Economic impact of unconventional gas production
- North American shale gas – present and future effects in Europe
- The economics of unconventional gas production in Europe
- Long-term expansion of the global resource base
- Changing balance of power in the global hydrocarbons market?

**Stefan Lochner**  
Economist and Gas Market Analyst  
**Institute of Energy Economics, University of Cologne, EWI**

13:00 Luncheon

14:00 Coffee and Networking Break

### WORKING AS A TEAM: HOW CAN TECHNOLOGY ASSIST?

14:30 **Case Study**

#### **The Drilling Champion**

- Meeting the challenges of an efficient and environmental-friendly drilling process
- Constructing wells in a more cost effective manner
- Future concepts of drilling optimisation for shale gas and other unconventional hydrocarbon resources development

**Prof. Dr. Gerhard Thonhauser**  
Managing Director  
**TDE Thonhauser Data Engineering GmbH**  
Chair of Drilling & Completion Engineering of Dept. of Mineral Resources and Petroleum Engineering  
**Montanuniversität Leoben**

15:10 **Case Study**

#### **Winning the Shale Play Lottery: Advanced Data Mapping**

- How data mapping determines your shale plays' success or failure
- Robust data mapping – advantages and limitations of basin modelling
- Quantitative approach to maturity and sweet spots maps prediction

**Dr. Francois Lorant**  
Chief Geology Advisor  
**Total E&P**  
Project Manager  
**Institut Francais du Petrole (IFP)**

15:50 Afternoon Tea and Networking Break

16:20 **Panel Discussion**

#### **Communication with the Public**

- Debate of land acquisition and conflicts with agricultural land
- Devise strategies for population density and drilling activities
- Is shale oil the next best thing?

*The panel will be joined by speakers of the day*

17:00 Chairperson's Closing Remarks and End of Conference

8th September 2010

08:30 Registration and Coffee

09:00 Workshop Leader's Introduction and Opening Remarks

#### ADVANCED RESERVOIR MONITORING

09:45 **Application of Micro-Seismic Mapping Techniques**

- Economical tool for reservoir characterisation
- Optimise hydraulic fracture simulation
- Data mapping and analysis for gas shales
- Micro-seismic imaging and its implication on regional stress field

10:40 Coffee and Networking Break

#### RESERVOIR EVALUATION

11:15 **Source Rock's Potential Assessment**

- How micro-seismic evaluation helps planning hydraulic fracturing
- What is the best way to stimulate a reservoir?
- Which is the best modelling – 2D, 3D or 4D?

12:00 Closing Remarks from the Workshop Leader and End of Workshop

*Workshop leader to be announced shortly*

#### Business Development Opportunities

Does your company have services, solutions or technologies that the conference delegates would benefit from knowing about? If so, you can find out more about the exhibiting, networking and branding opportunities available by contacting our sponsorship division.

**James Pretty**, Sponsorship Manager, **marcus evans** Amsterdam  
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## marcus evans

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#### marcus evans congresses

**marcus evans** congresses bring together the leading vendors and decision makers from a wide range of services and industries. Each event provides an opportunity for key suppliers to exhibit and demonstrate their products to the region's key professionals. In addition to the exhibition format the event's educational conference is attended only by delegates who are pre-qualified, in most cases to a minimum spend of US\$5 million and many with budgets in excess of \$50 million.

## Speaker Profiles

### Alexander Fraser

#### 3Legs Management Services Ltd

Alexander Fraser is an experienced emerging markets investment banker with 10 years experience in Central and East European and cross-border M&A investment banking at JPMorgan, Deutsche Bank and Brunswick-UBS, working with a variety of government and large corporate clients in sectors including oil and gas and mining. Prior to that, he worked for 6 years as a corporate lawyer for Freshfields. Mr Fraser is fluent in French and Russian, having lived and worked for 5 years in Paris and Moscow. He has a BA from Oxford and is a qualified barrister.

### Dr. François Lorant

#### Total E&P IFP

FRANCOIS LORANT is Project Manager, geochemist and basin modelling specialist at the Institut Français du Pétrole (IFP), Rueil-Malmaison, France. His education has included an MSc from the University Diderot-Paris 7 and the IFP-School, a PhD from the University Louis Pasteur, Strasbourg, and a post-doctoral period at the California Institute of Technology (Caltech), Pasadena, CA, USA. His scientific work is mainly focused on the geochemistry of natural gas and source rocks, especially in relation to unconventional hydrocarbon resources, the numerical simulation of petroleum systems, and the prediction of overpressures in sedimentary basins. Part of his current activities is concerned with the evaluation and the prediction of gas shale deposits. Since January 2010 Francois has also been working with Total as a detached scientist.

### Dr. Mike Stephenson

#### British Geological Survey

MICHAEL H. STEPHENSON is Head of Science (Energy) at the British Geological Survey (BGS), Nottingham, United Kingdom. His education has included a BSc, MSc and PhD from the University of Sheffield and Imperial College, London as well as various postgraduate teaching qualifications. Mike's scientific work is mainly concerned with the petroleum geology of Arabia, and he has published over 50 papers on this and other regions as well as working extensively as a consultant for oil companies. Mike now runs the Energy Programme at BGS including carbon capture and storage, hydrocarbons, renewables and unconventional energy. He sits on the boards of several journals and is Editor-in-Chief of a major Elsevier geological journal.

### Dr. Jeremy Boak, Ph.D

#### San Leon Energy; Colorado School of Mines

Jeremy Boak Ph.D: Non-Executive Director, is Director of the Center for Oil Shale Technology and Research (COSTAR) at the Colorado School of Mines. He chairs the leading international symposium on oil shale development and the Oil Shale Committee of the Energy Minerals Division (EMD) of the American Association of Petroleum Geologists (AAPG). He was formerly Project Manager at Los Alamos National Laboratory, Branch Chief at the U. S. Department of Energy, and exploration and development geologist for ARCO Oil & Gas Company. He is affiliated with AAPG, EMD, and the Geological Society of America. Dr Boak is extensively published and has a Ph.D. and B. A. in Geology from Harvard University and an M.S. in Geology from the University of Washington.

### Andrzej Sikora

#### Energy Studies Institute in Poland

Andrzej Sikora is the CEO and President of the Board of Directors at the Energy Studies Institute in Poland since 2007, working closely with the Polish Ministry. Prior to this, he was the advisor to AKJ Capital S.A. where he participated in projects of oil and gas exploration and production in Eastern Europe, Russia, Kazakhstan, Baltic countries and Africa. He was also the Director at PKN Orlen S.A. and a Member of the Supervisory Boards in APEX Energy Ltd. and Trzebinia Refinery S.A.. Mr. Sikora had studied at the AGH University of Science and Technology in Cracow and the University of Southern California Jackson, and is expected to receive his Ph.D. this autumn.

### Pawel Poprawa MSc Eng

#### Polish Geological Institute

Pawel studied Geosciences and Petroleum Geology at Jagiellonian University in Cracow, AGH Technical University in Cracow and University College Dublin. He completed his MSc thesis on organic geochemistry of hydrocarbon source rocks in 1994. Since 1995, Pawel has been working for the Polish Geological Institute in Warsaw, and was promoted as the Head of Petroleum Prospection Division at Polish Geological Institute in 2003.

Pawel's expertise lies within sedimentary basin analysis, in particular thermal and burial history reconstructions, tectonic evolution of sedimentary basins, and sediment provenance area studies. During the last four years, he has been engaged in the projects of shale gas potential in Poland and neighboring countries.

### Dr. Gerhard Thonhauser

#### TDE Thonhauser Data Engineering GmbH; Montanuniversität Leoben

Dr. Gerhard Thonhauser holds the Chair of Drilling and Completion Engineering at the Montanuniversität Leoben, Austria.

He is founder of several companies which service the petroleum industry with drilling data analysis solutions and engineering services. He worked in several research and engineering consulting roles worldwide in the areas of data management, drilling performance optimization, and extended reach drilling.

Current areas of interest focus on drilling monitoring and analysis to improve the efficiency of the drilling process and extending the drilling envelope to push the limits of current drilling technology toward more environmental friendly and efficient technology

### Stefan Lochner

#### Institute of Energy Economics, University of Cologne, EWI

Stefan has been the Research Associate and Consultant at the Institute of Energy Economics at the University of Cologne (EWI) since 2006, focusing on energy markets modelling, natural gas market's infrastructure and upstream developments. Stefan has been working closely with various organisations as a Consultant, ranging from BNetzA, AEEG, CNE, E-Control, Ofgem and so on. He is also a PhD candidate at the University of Cologne. Prior to this, Stefan studied in Economics at the Dresden University of Technology and obtained a MSc Economics at the University of Warwick. Throughout his professional career, he has published numerous articles including the impact of recent gas market developments on long term projections for global gas supply, the Russian-Ukrainian gas conflict.

### Anne-Sophie Corbeau

#### International Energy Agency

Ms. Corbeau joined the International Energy Agency in March 2009 as Senior Gas Expert at the Energy Diversification Division (Office of Energy Markets and Security). She is responsible for managing the research on global gas markets, with a particular focus on short- to medium-term development. She is the main author of the gas section of the publication: Medium Term Oil and Gas Markets. Prior to this assignment, Anne-Sophie worked at CERA (Cambridge Energy Research Associates) as Associate Director in the European Gas team. As a specialist in European gas market fundamentals and demand forecasting, she was responsible for updating the short- and long-term market outlooks for natural gas supply and demand, and prices in Europe. Prior to joining CERA, she worked in the fuel cell area.

Anne-Sophie holds an MSc from the Ecole Centrale Paris and an MSc from the University of Stuttgart.

### Eng. Enrico Cingolani

#### Eni S.p.A

Recently has been appointed as Senior Vice President in eni for the East Europe Program, a new challenging assignment with a specific focus on the development of unconventional gas in Europe and a particular emphasis on the assessment of shale gas potential in the continent. Since 2008 he was CEO and Chairman of STOGIT, the eni company dedicated to gas storage activities in Italy and one of the leading underground gas storage firms in Europe. He started his career in eni in 1982 as a Petroleum Engineer after graduating in Mining and Petroleum Engineering from Bologna University.

Having spent more than 25 years in the oil and gas business, his career started as a Planning and Project Manager for offshore gas development projects, he then became Technical and Operations Manager, Contract Manager for strategic contracts and partnerships with the oil&gas worldwide major contractors, finally reaching the role of Managing Director for eni in Italy and in Egypt, where special attention was given to the development of the overall gas production chain including a new LNG liquefaction plant. In 2007 he was appointed as Vice President in eni for Petroleum and Gas Agreements and Negotiations in order to properly settle the relevant organization of this strategic discipline. In 2003 he was President of the Italian section of the Society of Petroleum Engineers and is member of AIPN (Association of International Petroleum Negotiators) since 2007.