

Global Unconventional and Shale Gas Plays Forum

Facing the Economic, Technological and Regulatory Issues in Europe's Quest for Unconventional Resources

Vienna, Austria

14th–16th February 2011

Including Half-Day Interactive Post-Conference Workshop:

Legal Necessities for Shale Success

Led by:

Michael Darowski
Senior Associate
Hogan Lovells

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

- **Gain** an overview of European unconventional prospects
- **Understand** the regulatory requirements and proposals for European unconvensionals
- **Learn** about the latest technological advancements in hydraulic fracturing, reservoir characterisation and wireline core drilling
- **Capitalise** on market analysis and forecasts
- **Review** the importance of Coal Bed Methane and Tight Gas

Learn from Key Practical Case Studies:

- **Falcon Oil and Gas Limited's** approach to technology and knowledge transfer from the US to Europe
- **RWE Supply and Trading's** update on the commercial prospects of unconventional gas in Europe
- **RAG Rohöl-Aufsuchungs'** latest strategy in European Shale development
- **Toreador Resources'** project update on the Paris Basin and joint venture with Hess Corporation
- **INA's** proven Tight Gas potential in Croatia

Silver Plus Sponsor:



Corporate Silver Sponsor:



Microbial Control

Media Partner:



" **MAXIMISE** Your Knowledge of **Unconventional Gas Resources** and **CAPITALISE** from the Unlimited Potential "

marcus evans

marcus evans Expert Speaker Panel:

Dr. Gyorgy Szabo
CEO
TXM Exploration and Production
Chairman of the Board of Directors
Falcon Oil and Gas Limited

Craig McKenzie
CEO
Toreador Resources

Stanislaw Rychlicki
Chairman of the Supervisory Board
Polish Oil and Gas Company (PGNiG)

Tony Vermeire
Commercial Director
Toreador Resources

Thomas Teyssen
Head of New Ventures
RAG Rohöl-Aufsuchungs

John Logel
Lead Geophysicist
Talisman

Senior Representative
GEO-Data

John Corben
Senior Technical Advisor to the Office of the Chief Economist
International Energy Agency (IEA)

Wolfgang Rauball
CEO and Chairman
Eurogas, Inc.

Yuriy V. Koltun, PhD.
Chief Geologist, Eastern Europe
Eurogas, Inc.

Senior Representative
DOW Microbial Control

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

Karoly Kiss
Senior Unconventional Project Manager
MOL

Michael Darowski
Senior Associate
Hogan Lovells

Lilit Cota
Director of Exploration Projects
SE Europe
INA

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

Sylvia Sikora
Natural Gas Unit Specialist, Oil and Gas Department
Ministry of Economy Poland

Fabien Paquet
Sedimentary Basins Geologist
Bureau de Recherches Geologiques et Minières

Gregorz Pytel
European Commission Advisor and Senior Expert
Sobieski Institute

14th February 2011

08:30 Registration and Coffee

09:00 Opening Address from the Chair

09:10 Opening Address:

Unconventional Gas – How Will it Impact European Markets?

- The role of unconventional gas in global supply and demand
- Effects of climate change policies and local environmental concerns
- Costs and prices
- Impacts on European markets

John Corben

Senior Technical Advisor to the Office of the Chief Economist
International Energy Agency (IEA)

US VS. EUROPE: EMULATING THE SUCCESS

09:50 Case Study:

Getting the Ball Rolling: Technology and Knowledge Transfer

- Replication and adaption of US technologies for Europe
- How many wells need drilling to make extraction viable?
- Availability of stocks and equipment in Europe

Dr. Gyorgy Szabo

CEO

TXM Exploration and Production

Chairman of the Board of Directors
Falcon Oil and Gas Limited

10:30 Morning Coffee and Networking Break

11:00 Case Study:

Exploration for Unconventional Gas in Poland

- Unconventional hydrocarbon accumulation – technology, efficiency and expenses
- Shale Gas prospective areas in Poland
- Unconventional hydrocarbon accumulation – risks and opportunities
- Environmentally protected areas in Poland
- The differences: Poland vs. US

Stanislaw Rychlicki

Chairman of the Supervisory Board

Polish Oil and Gas Company (PGNiG)

11:40 Case Study:

The Contribution that an Effective European Operator Has to Offer in Developing Shale Gas – RAG's Experience

- How flexible and mobile installations can ensure a small footprint in Shale development and help to mitigate surface concerns
- How modular production technology (parallel small production trains) can accommodate the typical steep decline/pressure loss in well production
- How RAG enters the play as a competence based rather than capital based company
- Where we see RAG's next steps in the European Shale Gas

Thomas Teysen

Head of New Ventures

RAG Rohöl-Aufsuchungs

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

Tel: 0031 20 800 4377, Fax: 0031 20 800 4333

Email: JamesP@marcusevansnl.com

CBM AND TIGHT: THE UNFAVOURABLES

12:20 Case Study:

Onshore Croatia, Drava and Mura Basins: Tight Gas Potential

- Proven Tight Gas potential within the Croatian part of Pannonian Basin in relation to Tight Gas Sandstone (TGS) and Gas Shale Miocene reservoirs
- TGS reservoirs proven by testing results and core/log analyses, in the deepest part of basins
- TGS reservoirs over the existing conventional gas fields (secondary target)
- Results of key TGS wells and estimation of gas in place reserves for the most promising areas in Mura and Drava Basins
- Comparison of North American Gas Shales and Pannonian Basin Miocene source rocks

Lilit Cota

Director of Exploration Projects SE Europe
INA

13:00 Luncheon

14:00 Coffee and Networking Break

14:30 Comparing the Three Plays – CBM, Shale and Tight Gas

- Geological framework of the plays
- Current production levels and future viability for Europe
- Common water issues to overcome
- Political and social resistance

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

WATER MANAGEMENT AND ENVIRONMENTAL CONCERNS

15:10 Case Study:

Advantages and Disadvantages of Unconventional Exploration in a Matured Area

- Potential play types in Hungary
- Logistical challenges and solutions
- Technical advancements and the role of hydraulic fracturing

Karoly Kiss

Senior Unconventional Project Manager

MOL

15:50 Afternoon Tea and Networking Break

16:20 Optimising Water Management and Waste Treatment in CBM and Shale Plays

- A sustainable water supply: sources and volumes required for each play
- Recycling fracture flow back water: produced water treatment
- Liabilities and responsibilities: prevention, preparedness and contingency planning
- Waste identification, tracking and reporting

Senior Representative

DOW Microbial Control

17:00 Panel Discussion:

CBM in Europe: Why Hasn't it Taken Off?

- Is it a question of regulations, cost or technology?
- Mapping out permeability: models and software
- What Shale can learn from CBM and Tight Gas

John Logel

Lead Geophysicist

Talisman

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

17:40 Closing Remarks from the Chair and End of Day One

15th February 2011

08:30 Registration and Coffee

09:00 Opening Address from the Chair

MARKET FUNDAMENTALS: PROSPECTS FOR EUROPE

- 09:10 **Limitations and Barriers of the Polish Market and Natural Gas Infrastructure in the Context of Unconventional Gas Research and Development**
- Structure of the Polish natural gas market
 - Challenges and potential barriers for the gas sector development
 - Assessing forthcoming opportunities in the unconventional gas conquest
 - Strategies for the successful future energy sector

Sylwia Sikora

Natural Gas Specialist, Oil and Gas Department
Ministry of Economy Poland

- 09:50 **Prospects of Central European Shale Gas: Routes to Markets**

- Enabling flexible and competitive natural gas markets in all EU states
- Further European integration based on common economic and strategic interest
- Bringing CEE into closer integration with the rest of the EU
- A positive step for Turkey: from transit country to trading hub for Europe

Gregorz Pytel

European Commission Advisor and Senior Expert
Sobieski Institute

10:30 Morning Coffee and Networking Break

THE GAS MAJORS: RUSSIA AND UKRAINE'S FUTURE

- 11:00 **Keynote Address: Does Russia Have the Power to Make Unconventional Uneconomical?**
- EU-Russia energy dialogue based on mismatched forecasts
 - Do we observe new Russian energy policy?
 - Why EU-27 is still not ready for a common European gas strategy
 - How long will Gazprom be the dominant natural gas supplier to the majority of European countries?
 - Europe's need for Russian gas political pricing
 - Will unconventional gas break the trend and is Poland ready to lead the European quest for gas independence?

Andrzej Sikora

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

- 11:40 **Case Study: Unconventional Resources in Ukraine**
- Shale plays in Ukraine
 - Advantages and disadvantages of exploration in Ukraine
 - Update on the continuity of Silurian source rocks in West Ukraine

Wolfgang Rauball

CEO and Chairman
Eurogas, Inc.

Yuriy V. Koltun, PhD.

Chief Geologist, Eastern Europe
Eurogas, Inc.

SEISMIC UNDERSTANDING

- 12:20 **Mudgas and Cutting Gas Isotope Analyses in Tight Gas Shales: Proven Technology from US Shale Developments for European Plays**
- Stable isotope analytics and Mudgas isotope logging in exploration and production
 - Organic carbon maturity and gas formation
 - The roll-over effect, rock properties and fracturing
 - Fracture prediction and frac backflow allocation
 - Production monitoring and case studies
 - Comparison with North American experiences

Senior Representative

GEO-Data

13:00 Luncheon

14:00 Coffee and Networking Break

- 14:30 **Geoscience Technology for Shale Reservoir Understanding**
- Exploiting Shale reservoirs efficiently and effectively with geoscience technology
 - Targeting the "best" areas with 3D seismic, coring, rock sampling, microseismic and post frac reservoir monitoring
 - Mitigating environmental issues and avoiding contamination possibilities
 - Using a geoscience and engineering synergy to capitalise from the best wells and ensure safe and environmentally conscience operations

John Logel

Lead Geologist
Talisman

RESERVOIR CHARACTERISATION: MASTERING BELOW GROUND TECHNICALITIES

- 15:10 **French Sedimentary Basins**
- The geology of French sedimentary basins
 - Petroleum systems
 - Unconventional targets
 - Handling use conflicts and conflicts of interest

Fabien Paquet

Sedimentary Basins Geologist
Bureau de Recherches Geologiques et Minieres

15:50 Afternoon Tea and Networking Break

- 16:20 **Case Study: A New European Resource Play: Paris Basin Shale Oil**
- Shale Oil vs. Oil Shale
 - Paris Basin in context
 - Paris Basin Shale Oil: geology, source rock, comparison with the Bakken
 - Update on drilling campaign
 - Size of the prize
 - Joint venture between Toreador and Hess Corporation
 - Recent activity in the basin
 - Possible development approach

Craig McKenzie

CEO
Toreador Resources

Tony Vermeire

Commercial Director
Toreador Resources

- 17:00 **Panel Discussion: European Regulations: The East-West Divide**
- Debating the incorporation of EU Directives into national law
 - Discussing the mining laws – no real focus on unconventional?
 - Developments in Poland: improving procedures and removing barriers
 - Consequences of newly proposed legislation for current licence holders with priority binding rights for the exploitation of unconventional resources

The panel will be joined by speakers of the day

17:40 Closing Remarks from the Chair and End of Day Two

16th February 2011

Interactive Post-Conference Workshop

LEGAL NECESSITIES FOR SHALE SUCCESS

Led by:

Michael Darowski

Senior Associate

Hogan Lovells

- 08:30 Registration and Coffee
- 09:00 Workshop Leader Introduction and Opening Remarks
- 09:15 **Licensing and Permits**
- Barriers to permits across the EU
 - Making a successful application: what to demonstrate, presentation of data and proof of a contingency plan
 - Realistic timeframes: from application to drilling
 - Legislation proposals: EU and national level
- 10:15 Coffee Break and Networking
- 10:45 **Stakeholder Issues**
- 'General' laws affecting exploration
 - Landowner rights
 - Negotiating with the landowner
 - Reliance on local law
 - Will compulsory purchases be necessary?
- 12:00 Closing Remarks from the Workshop Leader and End of Workshop

Silver Plus Sponsor:



GEO-data GmbH was founded in 1978 as a geological service enterprise. Since then GEO-data has diversified and specialized in different geological and geotechnical areas. Today the GEO-data group covers the complete range of formation logging services. A trademark of GEO-data is the complete in-house development of all components required for our services including the construction of the logging units, the analytical equipment and the highly specialized visualization software. Our Research & Development department closely co-operates with our customers as well as with partners from science and research. Own developments, such as a fast gas chromatograph (FID F35), are developed and realized in the main office and headquarter in Garbsen, Germany.

marcus evans

marcus evans conferences

Producers of high quality business to business conferences designed to address the strategic information needs of senior executives. Speakers are practitioners from international blue-chip organisations and financial institutions, as well as business schools, academic bodies and government ministries. More than 1,000 conferences take place each year, attracting over 100,000 delegates and 16,000 speakers.

marcus evans summits

Producers and promoters of over 150 of the world's leading business and economic summits every year for senior decision makers at exclusive locations around the world. These events provide attendees with a unique opportunity to access the latest developments in their chosen industry and to network in a structured environment with leading industry practitioners.

marcus evans professional training

Sector Focused and General Management Training through high quality courses, videos and CD-ROMs enables organisations of any size and geographical location to benefit from working with **marcus evans** for all their training needs. The clients' demands for high quality hands-on training drives the focus for content, and thorough research ensures a compatibility with current business concerns.

marcus evans language training

marcus evans linguarama offers effective training in language, communication and culture for business and professional people. With more than 30 years' experience and over 20 centres in Europe, we are one of Europe's largest business language and communication training organisations. Each year **marcus evans linguarama** trains people from over 60 countries worldwide and provides over 1,000 companies and organisations with total training solutions where our courses are focused entirely on the needs of the individual participant or group and have practical relevance to business and professional life.

marcus evans corporate hospitality

Specialists in corporate hospitality linked to the premier international sporting events around the world. Trading as The Hospitality Group (thg), Sports Marketing Group (smg) and International Championship Management, the event diary is nothing less than an international sporting directory.

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

Andrzej Sikora

CEO, President of the Board

Instytut Studiów Energetycznych

A graduate of the faculty of Automatics and Electronics at the AGH University of Science and Technology in Krakow, Andrzej Sikora has also completed the STOREWARS course at INSEAD in France. Andrzej Sikora started his career at Huta Stalowa Wola, Poland's leading steelworks. Before joining PKN ORLEN he was a Director of the BGZ Bank's branch in Tarnow and Head of Key Account Department in the Bank's headquarters in Warsaw. Between 1997 and 2001 Andrzej Sikora served as Finance and Trade Vice-President and the Key Clients Director at Sokolow S.A., Poland's leading food producer. In 2002 he joined PKN ORLEN, where he has been responsible for overall optimisation of the Company's production assets. He actively participated in corporate strategic projects, including those crucial for regional consolidation like UNIPETROL acquisition. Starting from 2005 he leads the Institute of Energetic Studies.

Jeremy Boak

Non-Executive Director

San Leon Energy Plc

Jeremy Boak is the Director of the Center for Oil Shale Technology and Research (COSTAR) at the Colorado School of Mines, and serves as the Chair of the Oil Shale Symposia attended each year by ~300 people from twenty countries around the globe. COSTAR conducts research on geological, geophysical and geochemical properties of oil shale and is sponsored by Total and ExxonMobil. He is also a Co-Director of the Center for Advanced Petroleum Systems Analysis and Research (CAPSAR), which conducts research on unconventional petroleum systems, including the Bakken and Niobrara shale-hosted oil systems. Before coming to Mines in 2006, he worked at Los Alamos National Laboratory, as a project manager in environmental and nuclear materials management for the U. S. Department of Energy, and at DOE's Yucca Mountain Project in Nevada directing performance assessment of deep geologic disposal of spent nuclear fuel, supervising work at five national laboratories and other major contractors. Prior to that, he was a petroleum geologist at ARCO Oil and Gas, Inc. in Anchorage, Denver, and Bakersfield. His work included exploration and wellsite work on Alaska's North Slope, evaluation of ARCO properties in Oklahoma and Texas, and equity allocation for the Long Beach Unit of the Wilmington Field in California. Dr Boak received his Ph. D. degree in Geological Sciences from Harvard University for work on the nature of metamorphism and continent formation in the earliest history of the earth, analyzing 3.8 billion year old rock from Isua, West Greenland. He received MS degrees from Harvard and the University of Washington, and his undergraduate degree from Harvard, all in Geological Sciences.

John Corben

Senior Technical Advisor to the Office of the Chief Economist

IEA

John Corben is currently Senior Technical Advisor to the Office of the Chief Economist of the International Energy Agency (IEA). He collaborates in many areas of work of the IEA and in particular to the studies of the World Energy Outlook. He has spent almost 30 years in the upstream oil and gas industry, working in multiple aspects of exploration and development. His career has spanned operations, engineering, training, marketing and management and he has worked in numerous countries principally in the Americas and Europe. He holds an engineering degree from Cambridge University (UK) and is an active member of the Society of petroleum Engineers.

Craig McKenzie

CEO

Toreador Resources

Mr. McKenzie (46) has been President and Chief Executive Officer of Toreador Resources since March 27, 2009 and served as our interim President and Chief Executive Officer beginning on January 22, 2009. From October 2007 to December 2008, he was the Chief Executive Officer and Director of Canadian Superior Energy, Inc., a Canadian oil and gas exploration and production company. From May 2004 to September 2007, he was the President of BG Trinidad & Tobago of BG Group plc, an integrated natural gas company. He was a member of the Atlantic LNG shareholders' board from September 2004 to September 2007. From 1986 to May 2004, he was at BP plc (Amoco Corporation prior to the merger) where he held various senior level positions, including unit leader of North Sea Projects and Exploration, Executive Assistant in the office of the Group Chief Executive Officer and Negotiator within the Mergers and Acquisitions Group. Mr. McKenzie's industry experience includes working in over 20 countries in both operations and commercial positions, and holds a BS degree in Petroleum Engineering from Louisiana State University and a Masters in Management from the Kellogg School of Management, Northwestern University.

Tony Vermeire

Commercial Director

Toreador Resources

Tony Vermeire (43) joins Toreador as Group Commercial Director for Houlihan Lokey, a mid-size US investment bank active in the US, Europe and Asia, where he was a vice president in the Paris office between 2005 and 2009, with a focus on financial restructuring in France and Belgium, transatlantic M&A and energy valuation. Between 2003 and 2005, Mr. Vermeire worked as a Principal Consultant for the Wholesale Energy Markets Group at the PA Consulting Group in Paris. Previously, he worked for the commodities trading division of Goldman Sachs in London, where together with the principal investments division he worked on the acquisition of non-operated oil & gas fields and various electricity generating companies, as well as the valuation and restructuring of long-term energy agreements. Prior to 2000, he worked for a decade in the upstream oil industry at BP plc (as a natural gas specialist for the Chief Economist), Amoco Europe (business development in the UK, Netherlands and Romania) and at TOTAL SA (project evaluation, commercial development and lead negotiator for TOTAL's North Sea E&P division). He is a member of the Royal Flemish Institute of Engineers and graduated magna cum laude with an M.Eng. degree in applied mathematics from the University of Leuven (Belgium). He also holds a joint M.Sc./ingenieur degree in petroleum economics from the IFP School (France) and the University of Pennsylvania (USA), and earned an M.B.A. with distinction from the London Business School (UK). He speaks English, French, Dutch and German.

John Logel

Lead Geophysicist

Talisman Energy Norge

John Logel is Lead geophysicist for Talisman Energy Norge in Stavanger Norway, leading them in the application of value adding geoscience technology to improve prospect quality and reduce risk. Previously he was the Senior Geoscience Advisor for North American Operations in Calgary, AB. working on geophysical problems throughout Canada and the new ventures organization. His primary responsibility was the technical development, mentoring and advancement of technology application for the exploration and exploitation of unconventional and conventional reservoirs in Canada. Prior to Talisman, John held several technical management and advising positions with Anadarko Canada, and Petro-Canada in Calgary and before that worked 19 years for Mobil in numerous assignments in Europe and North America. John has over 29 Years of experience in the industry, and has work on several giant, world class oil and gas fields throughout the world. His interests are in reservoir prediction and characterization from seismic data, understanding and quantifying risk. His latest emphasis has been in the adaptation of geophysical techniques to better understand, predict and exploit unconventional reservoirs effectively. He enthusiastically teaches and loves to develop technology and encourage professional growth. John is a professional Geophysicist and holds a BS and MS from the University of Iowa. He is a member of SEG, CSEG, APEGGA, and AAPG. John has held several positions with the CSEG and the SEG, on technical committees, curriculum committee for the doodletrain, several session chair positions at the conventions and positions on the International showcase. John also teaches professional development courses for Petroskills in basic geophysics and AVO, Inversion and Attributes. On a personal side, John is active in his children's school, soccer, karate and baseball clubs.

Fabien Paque

Sedimentary Basins Geologist

Bureau de Recherches Géologiques et Minières

Fabien is a geologist, specialized in marine geology, sedimentology, and sedimentary basin geodynamic evolution in general. He earned a PhD in geology-geosciences from the Universities of Rennes (Rennes, France) and Canterbury (Christchurch, New Zealand) in 2007. He taught geology at the University of Southern Brittany as an Assistant Lecturer from 2007 to 2009. Since 2009, he has been a geologist at the french geological survey – BRGM (Bureau de Recherches Géologiques et Minières). He is working on various projects including support to public policies at national and EU level, as well as industrial-commercial and research projects in France and abroad.