

*"All the presentations were very interesting, all the speakers were very good."*

*Alda Muttoni, Exploration Manager, ENI E&P, Unconventional Gas 2009*



SMi present their 3rd Annual Conference

# Unconventional Gas 2010

*Maximising efficiency, reducing costs;  
extracting best value*

Monday 15th and Tuesday 16th March 2010  
Marriott Hotel Regents Park, London

#### KEY SPEAKERS INCLUDE:

- Stephen Mitchell, Managing Director, **MOLOPO AUSTRALIA LIMITED**
- Randeep S Grewal, Chairman & Chief Executive Officer, **GREEN DRAGON GAS**
- Anthony McClure, Managing Director, **EUROPEAN GAS LIMITED**
- James M Hill, Vice President of Exploration, **BNK PETROLEUM**
- Steinar Eikaas, Vice President – Global Joint Venture Shale Gas & Andrew Winkle, Vice President – Onshore U.S. Gas, **STATOILHYDRO**
- Scott Reeves, Head of Unconventional Gas Resources, **BG GROUP**
- Melvyn Giles, Global Theme Leader – Unconventional Gas, **SHELL EXPLORATION AND PRODUCTION**
- Gyorgy Szabo, Chief Executive Officer, **FALCON TXM**
- Abdulla Al Naim, Vice President – Exploration, **SAUDI ARAMCO**

#### ATTEND AN INTERACTIVE POST CONFERENCE WORKSHOP ON:

### Data Acquisition and Exploration Strategies in Unconventional Gas: Enterprise Value Assessment

Wednesday 17th March 2010, In association with: AMX Consulting Services LLC

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# UNCONVENTIONAL GAS 2010

DAY ONE | Monday 15th March 2010

www.smi-online.

8:30 Registration and coffee

9:00 **Chairman's opening remarks**

An overview of the global 'unconventional gas' industry:  
Where are we now and how far can we go?

**James Elston**, CEO, **REALM ENERGY**

GLOBAL DEVELOPMENTS AND PROJECT UPDATES: 2009-2010

Bringing commercial viability and development for all types of unconventional gas resources

9:10 **BG GROUP'S UNCONVENTIONAL GAS ACTIVITIES**

- BG's UGR Strategy
- Australia CSG
- US Gas Shales
- Europe

**Scott Reeves**, Head of Unconventional Gas Resources, **BG GROUP**

9:50 **DEPLOYING RIGHT TECHNOLOGY TO OPTIMISE RESULTS AND COST EFFICIENCY: CBM PRODUCTION IN CHINA**

- Managing a self sufficient in house drilling team
- Enhancing production with multi-lateral horizontal drilling technology
- Gas sales and distribution: significant well positioning strategies
- Integrating technology throughout the CBM value chain: upstream, midstream and downstream
- Reducing costs and achieving sustainable production and profitability

**Randeep S Grewal**, Chairman & Chief Executive Officer, **GREEN DRAGON GAS**

10:30 Morning Coffee

11:00 **MOLOPO AUSTRALIA'S CBM EXPERIENCE IN US, AUSTRALIA, SOUTH AFRICA AND CHINA**

- Critical Factors for CBM – understanding the key fundamental parameters
- Benefitting from new tools for exploration and production
- Water Management, environment and land access
- Current challenges and future outlook

**Stephen Mitchell**, Managing Director, **MOLOPO AUSTRALIA LIMITED**

11:40 **EUROPEAN GAS LIMITED'S EXPERIENCES IN CONTINENTAL EUROPE**

- Doing business in France
- CMM to electricity in France
- CBM developments on the continent

**Anthony McClure**, Managing Director, **EUROPEAN GAS LIMITED**

12:20 **TOOLS AND TECHNIQUES FOR CBM EXPLORATION, WELL CONSTRUCTION AND MAINTENANCE**

- Contrasting conventional gas well and water well tools and techniques
- Coal Bed Methane exploration
- Coal Bed Methane well construction
- Coal Bed Methane well maintenance, stimulation and abandonment
- Worldwide examples

**Howard Kenworthy**, Commercial Director, **INFLATABLE PACKERS INTERNATIONAL**

1:00 Networking Lunch

2:00 **CBM PROJECTS IN INDIA**

- CBM in India
- GEECL: from pilot projects to full roll out: exploration, production, and distribution
- Uses and Benefits of CBM
- India's energy deficit

**Prashant Modi**, President & Chief Operating Officer, **GREAT EASTERN ENERGY CORPORATION LIMITED**

2:40 **SHALE GAS RESEARCH PROJECTS: GEOEN AND GASH**

- Project Updates
- Gas shales in European sedimentary basins
- Coordinated databases
- New European target horizons for shale gas research and exploration
- New organic geochemical approaches

**Hans Martin Schulz**, Senior Research Scientist, **GFZ GERMAN RESEARCH CENTRE FOR GEOSCIENCES**

3:20 Afternoon Tea

3:50 **SHALE GAS PROSPECTS IN THE UK**

- Prospective shale formations
- Gas characteristics
- Maturity
- US analogues

**Nigel Smith**, Principal Geologist – Shale Gas and Coal Bed Methane, **BRITISH GEOLOGICAL SURVEY**

OVERCOMING THE OBSTRUCTIONS OF UNCONVENTIONAL GAS DEVELOPMENT

4:30 **THE APPLICATION OF ADVANCED PERFORATING TECHNIQUES TO UNCONVENTIONAL GAS DEVELOPMENTS**

- A general overview of UCG completion considerations
- Specific challenges faced when perforating unconventional gas reservoirs
- Alternative perforating methods and their relative merits for UCG
- Field examples featuring the latest perforating technology
- Opportunities for further study
- Conclusions and learnings

**Matt Bell**, President & Chief Executive Officer, **GEODYNAMICS INC**

5:10 **COMMON CHALLENGES OF UNCONVENTIONAL GAS RESERVOIRS**

- Unconventional gas exploration taking off outside the US now
- Challenges and opportunities to incorporate the learnings from North America

**Melvyn Giles**, Global Theme Leader – Unconventional Gas, **SHELL EXPLORATION AND PRODUCTION**

5:50 **SHALE EXPLORATION FOR NEW ENTRANTS IN EUROPE**

- Data access and legacy positions
- Licensing, open door, rounds and competition
- Services provision and developments
- Markets / Infrastructure
- Working programmes and economics
- Financing exploration

**James Elston**, Chief Executive Officer, **REALM ENERGY**

6:30 **Chairman's Closing Remarks and Close of Day One**

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## WHY YOU CANNOT MISS THIS EVENT

- Understand the **key strategies** required to fully utilise the potential of unconventional gases
- **Improve your operations** and still **reduce operational costs** with the use of effective front edge technologies
- **Learn** from fellow operators about **successes and mistakes** made in building unconventional gas reserves
- **Develop project excellence** within your teams by adopting **best practices** from leading industry experts



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8:30 Re-registration and coffee

9:00 **Chairman's opening remarks**  
James Elston, Chief Executive Officer, **REALM ENERGY**

### SHALE GAS AND TIGHT GAS PRODUCTION OUTSIDE NORTH AMERICA

9:10 **ALL SHALE PLAYS ARE NOT CLONES OF THE BARNETT SHALE...OR ARE THEY?**

- What it takes to establish a commercial shale play in new areas?
- Bringing the North American technology, expertise and experience to Europe
- Integrated resource play - petrophysical analysis and well productivity modelling
- Shale Petrophysics for Stimulation Design Optimisation

**Mike Mullen**, Technical Manager- Stimulation Petrophysics, **HALLIBURTON**

9:50 **IMPROVING RETURNS ON TIGHT GAS**

- Applying the well performance mechanisms in tight gas reservoirs
- Benefits of integrated asset modelling over traditional 'carpet bombing'
- Practical ways of increasing the overall asset efficiency in drilling, stimulation and logistics along with field surveillance and operations

**Abdulla Al Naim**, Vice President - Exploration, **SAUDI ARAMCO**

10:30 Morning Coffee

11:00 **BNK PETROLEUM'S SHALE GAS PROJECTS IN EUROPE**

- European Shale Gas
- BNK's Polish Project
- Silurian Shale
- Other European Basins

**James M Hill**, Vice President of Exploration, **BNK PETROLEUM**

11:40 **STATOILHYDRO'S ENTRY INTO SHALE GAS: CASE STUDY**

- The strategic rationale for entering shale gas
- Approach for finding the right entry opportunity
- Developing operational shale gas skills within the organisation
- Future growth: benefiting from the partnership internationally

**Steinar Eikaas**, Vice President - Global Joint Ventures Shale Gas, and **Andrew Winkle**, Vice President - Onshore U.S. Gas, **STATOILHYDRO**

12:20 Networking Lunch

1:50 **BASIN CENTERED GAS ACCUMULATIONS IN CENTRAL EUROPE AND AUSTRALIA**

- Definition of the "Unconventional" resources: production outlook
- Natural gas generation mechanism, petroleum systems, the renewal energy
- Basin centered gas accumulations (BCGA) in the Pannonian (Central-Eastern Europe) and the Beetaloo Basins (NT Australia)
- Applied techniques, stimulation, slick water vs. synthetic cross linked fluids
- Commingled well completions: case studies

**Gyorgy Szabo**, Chief Executive Officer, **FALCON - TXM**

2:30 **LANE ENERGY'S EXPERIENCE OF SHALE GAS PLAYS IN POLAND: PROJECT UPDATE**

- Shale gas project in the Baltic Basin area of Northern Poland
- Progress so far
- Future planning and prospects

**Kamlesh Parmar**, Director, **LANE ENERGY POLAND**

3:10 Afternoon Tea

3:40 **SHALE GAS RESERVOIR ASSESSMENT: OVERVIEW AND CRITICAL DATA REQUIREMENTS**

- Basic Fundamentals
- Wellsite Core Acquisition
- Core Preservation Methods
- Fundamental Assessment Criteria
- Gas Content
- Gas Composition
- Gas Isotopic Composition
- Adsorbed Gas Storage Capacity
- Free Gas Storage Capacity
- Petrography/Geochemistry
- Initial Gas Saturation
- Matrix & Effective Permeability
- Geomechanics

**Chad Hartman**, Chief Technical Advisor, **WEATHERFORD LABORATORIES**

4:20 **APPLYING LESSONS LEARNED IN EVALUATING THE BARNETT SHALE TO OTHER GLOBAL SHALE PLAYS**

- Understanding how mature resources plays may be key to understanding emerging plays
- Effectively analysing how operator and technology effects impact performance

**Ramona K Hovey**, Senior Vice President, **DRILLING INFO**

5:00 **THE EVOLUTION OF UNCONVENTIONAL GAS RESOURCE; WHERE IT WILL POSSIBLY LEAD US?**

- What is the essence of unconventional gas?
- Development concepts
- Relation to market trends
- Regional challenges
- Technology and understanding

**George D Vassilellis**, Lead Reservoir Engineer, **GAFFNEY, CLINE AND ASSOCIATES**

5:40 **TIGHT GAS RESERVOIR PROJECTS IN THE NETHERLANDS**

- Quick introduction to tight gas producing formations in the Netherlands
- Geological setting (gas fields in Rotliegend and Bunter)
- Comparison of tight gas reservoir potential with other non-conventional resources in the country
- Limited window of opportunity - aging infrastructure offshore
- Brief quantification of reserves: update on tight gas reservoirs
- Developments in the past few years
- Research
- Tax measures
- Technical trends

**F F Van Hulten**, Geologist, **EBN**

6:20 **Chairman's Closing Remarks and Close of Conference**

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### WHO MUST ATTEND

- CEOs
- COOs
- Managing Directors
- Heads of Unconventional Gas
- VPs and Heads of Exploration and Production
- Geological Advisors
- Project Advisors and Managers
- Heads of Drilling
- Commercial Managers

*"Excellent cross section of talks."*

Stephen Jewell, Chief Operating Officer,  
**COMPOSITE ENERGY LTD,**  
Unconventional Gas 2008

## Data Acquisition and Exploration Strategies in Unconventional Gas: Enterprise Value Assessment

### Workshop Overview:

Design data acquisition and drilling programmes in shales to model and then effectively affirm the value of lease/licence with the fewer exploratory wells: Review existing data, acquire new data (logs and seismic), coring programme, microseismic programme, production profiling, completion design, risk analysis and value-modeling. This workshop will deal with unconventional shale gas exclusively.

**8:30** Registration and Coffee

**9:00** Introduction and aims of the workshop

**9:05** Existing and new data

- Well logs—log suites, cluster analysis
- TOC, maturity data
- Seismic

**9:25** Core acquisition and analysis

- Cluster analysis
- Gas analysis
- TOC, maturity data
- Petrophysics
- Fluid sensitivity
- Integration with logs and seismic

**9:50** Microseismic

- Vertical
- Horizontal
- Well-spacing based on frac-cloud

**10:10** Reservoir engineering (completion and production)

- Pore pressure assumptions
- Fracing decisions
- Stage spacing

**10:35** Morning Coffee

**11:00** Monte Carlo risk-analysis

- Inputs
- Quality control
- Outputs and limitations
- Valuation

Valuations—acquire, sell, or hold

- Upstream valuation

Midstream valuation

Market Climate Considerations

Conclusions

**12:00** Questions & Answers

**12:30** Discussion and Close of Workshop

### In association with:



AMX Consulting LLC provides business and technical consulting to small and medium-sized companies engaged in upstream energy exploration and production.

### About your workshop leader:

Alden McCall has managed exploration programmes through various stages in Texas, Oklahoma, Kansas, Alaska, California, Denmark, France and Australia. They have included elastic reservoirs, carbonate reservoirs, enhanced heavy oil recovery and shale resource plays. As General Manger of AMX Consulting Services, he has served as consultant to Triton-France, to a heavy oil processing technology start-up, to the U.S. Department Of Energy in Russia (as subcontractor), to drilling companies and to drilling services companies.

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# UNCONVENTIONAL GAS 2010

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