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INTRODUCTION TO UNCONVENTIONAL GAS

20 March 2012 Beijing, China

非常规油气介绍课程

3月20日，北京 - 中国



Expert Course Director

Dr. John Preedy

Formerly with for BP for 28 years as a Research Associate and Team Leader, working on Feasibility Studies and acting as a trouble shooter covering all aspects of BPs businesses. These covered field Development Project in the North Sea and several novel resource recovery techniques which were taken from Concept to Field Pilot trials in Canada.

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Historically, conventional natural gas deposits have been the most practical and easiest deposits to drill. However, as technology and geological expertise advance, unconventional natural gas deposits are beginning to make up an increasingly large percent of the supply picture. Studies predict that domestic Chinese unconventional production will account for over a quarter of total gas supply by 2030. Development of indigenous unconventional gas is currently slow but significant volumes of coalbed methane, coal-based synthetic gas and shale gas are forecasted to enter the market, reaching over 11 billion cubic feet per day by 2030. This will meet much of China's incremental demand by this time.

This one-day course is intended for technical professionals requiring an introduction and overview of how Shale Gas, Coalbed Methane, Tight Gas are evaluated and developed. Common and unique features of each type of reservoir will be presented along with an explanation of some of the key terminology used in the gas industry. The course is intended for those who are not familiar with one or more of the four types of natural gas plays or who are interested in learning more about the overall evaluation and development for natural gas.

In this one-day course you will:

- ❖ Review the origin and mechanisms of unconventional gas production, discuss various techniques to analyze reservoir parameters and performance, and assess their value and limitations
- ❖ Learn from case histories how to compare and contrast different play types, appraisal activities, and development strategies
- ❖ Understand the increasingly sensitive technologies that are making the production of unconventional gas economically viable, efficient and environmentally safe
- ❖ Reinforce your knowledge of the unconventional gas industry with latest developments taking place in technology & markets

Course Outline in Detail

Morning

L1 GLOBAL REVIEW OF THE OIL & GAS INDUSTRIES AND THE OPPORTUNITIES FOR UNCONVENTIONAL HYDROCARBON RESOURCES

L2 SUMMARY OF MAIN UNCONVENTIONAL OIL & GAS SOURCES

- Tar Sands
- Oil Shales
- Shale and Tight Gas
- Coalbed Methane
- Underground Coal Gasification
- Gas Hydrates

L3 THE EMERGENCE OF SHALE AND TIGHT GAS AS A NEW RESOURCE

- History of Shale and Tight Gas
- Need for further Gas resources

L4 DETAILS OF PRODUCTION REQUIREMENTS FOR SHALE & TIGHT GAS

- Exploration
- Horizontal Drilling Techniques and Methods
- Hydro-fracturing Techniques.
- Surface Drilling, Fracturing and Production Requirements

Afternoon

L5 EXAMPLES OF EXISTING SHALE GAS FIELDS

- USA
- Europe
- Worldwide
- Opportunities for China, India and S E Asia

L6 COALBED METHANE PRODUCTION REQUIREMENTS

- Surface Recovery Techniques
- In Mine Recovery Techniques
- Drilling Requirements
- Gas Clean-up
- Opportunities for China, India and S E Asia

L7 EXAMPLES OF EXISTING COALBED METHANE FACILITIES

- USA
- Europe
- Worldwide

L8 UNDERGROUND COAL GASSIFICATION

- Background
- Details of the possible Techniques
- Examples of Field Activities

L9 ENVIRONMENTAL ISSUES

- Shale Gas - Use of Water and Contamination of Ground Waters
- Coalbed Methane - Contamination of Ground Waters

Close of Course and Presentation of Certificates of Attendance

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Who will benefit from attending this training course?

- ❖ Geoscientists, engineers, and managers with experience in conventional reservoirs who want to develop unconventional gas expertise
- ❖ Unconventional gas industry employees who want to refresh their knowledge of industry basics
- ❖ Sales/marketers and consultants working on unconventional gas projects or accounts
- ❖ Employees of organizations providing services to the gas industry—and anyone who wants to learn about unconventional gas

The training course has a limited attendance for up to 25 participants only. Sessions commence at 9am on all days, with short intervals at 10.30am and 3.00pm respectively. Lunch will be provided at 12:30pm for 1 hour. Sessions will end at 4.30pm.



About Your Expert Course Director: Dr. John Preedy

Director of Course and Senior Consultant, worked for BP for 28 years as a Research Associate and Team Leader, working on Feasibility Studies and acting as a trouble shooter covering all aspects of BPs businesses. These covered field Development Project in the North Sea and several novel resource recovery techniques which were taken from Concept to Field Pilot trials in Canada. His specific work in the offshore area covered Subsea Robotics / Automation, Seabed Production Concepts, Seabed Excavation Methods, Underwater Repair Techniques, Flexible Riser Studies and Maintenance Cost Reductions.

After leaving BP in 1992, he has continued working in the offshore oil industry through Azur Offshore Ltd, including activities in the assessment of Emerging and Novel Technologies, Technical and Economic Audits, Studies, Production Sharing Agreement Evaluations, Safety and Environmental issues.

Clients have included Chevron UK, BP Exploration, British Gas, Technomare, Trident Consultants, Fina UK and Cameron France. John is regular University lecturer at Cranfield School of Industrial Sciences (UK) and is a course Group Project external examiner for Cranfield. He also lectures on offshore oil industry activities at ENSIETA (France), the Technical University of Delft (Holland) and the Northern Territories University in Darwin (Australia).

He is an active member of the UK Society for Underwater Technology (SUT) and serves on their Subsea Engineering and Operations Committee.



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REGISTRATION FORM

Introduction to Unconventional Gas Beijing, China	Early Bird Price	✓	Normal Price	✓	TEAM DISCOUNTS!
20 March 2012 <i>CIPPE Exhibitors will enjoy an exclusive rate of USD1099nett</i>	USD 1199		USD 1399		PetroEdge recognises the value of learning in teams. Group bookings at the same time from the same company receive the following: 3 or more at 5% off 5 or more at 7% off 8 or more at 10% off Team discounts are based on Normal Price only and are not applicable for other promotions.
PetroEdge In-house Training <input type="checkbox"/> Yes, I would like to organise this training on-site and save over 25% of total course fees! For further information about On-site Training Solutions, please call +65 67419927 or email info@asiaedge.net					

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Mrs Ms Dr Other

Telephone: _____ Email: _____

Job Title: _____

Department: _____

Delegate 2: _____ Mr

Mrs Ms Dr Other

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Job Title: _____

Department: _____

Head of Department: _____

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4 Easy Ways to Register

Online: www.petroedgeasia.net

Email: caroline@asiaedge.net

Phone: (65) 6741 9749

Fax: (65) 67478737

Please note:

- indicate if you have already registered by Phone Fax Email Web
- if you have not received an acknowledgement before the training course, please call us to confirm your booking.
- photocopy this form to register multiple delegates.

Payment Methods

By Cheque/ Bank Draft: Make Payable to Asia Edge Pte. Ltd.

By Direct Transfer: Please quote AE1 with the remittance advise

Account Name: Asia Edge Pte. Ltd.

Bank Number: 508 Account Number: 762903-001Swift Code: OCBSCGSG

All bank charges to be borne by payer. Please ensure that Asia Edge Pte Ltd receive the full invoiced amount.

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