

# Offshore Heavy Oil 2011

The only European conference focused entirely on offshore heavy oil

Performance improvement, recovery, reducing costs & environmental impact

**SAVE! £100**

Book by 16th September

**Thursday 24 & Friday 25 November 2011**

**Mayfair Conference Centre, 17 Connaught Place, London W2 2ES, UK**

Learn from heavy oil projects and assess new recovery and production methods in development:

- From **Venezuela's Orinoco heavy oil reservoirs**: new logging technology and analysis methods to estimate hydrocarbon properties
- Market outlook on offshore heavy oil from around the world, including **Brazil, UK, Venezuela, Norway** and **Canada**
- The technology enablers: new **thermal recovery** developments and applications, **flow measurement** and assurance, **artificial lift** and topside production

Speakers from the forefront of testing and developing heavy oil techniques:



**Michel Claverie**  
Petrophysical Advisor  
**Schlumberger**, France



**Jules van Limborgh**  
Director, Oil and Gas, **RBS Corporate and Institutional Banking**, UK



**Mika Tienhaara**  
Managing Director  
**ASCOM Separation**, The Netherlands



**Chris Mills**  
Technical Consultant  
**NEL**, UK



**Colin McKinnon**  
Technical Director  
**J P Kenny Limited**



**Leonid Surguchev**  
Vice President  
**IRIS**, Norway

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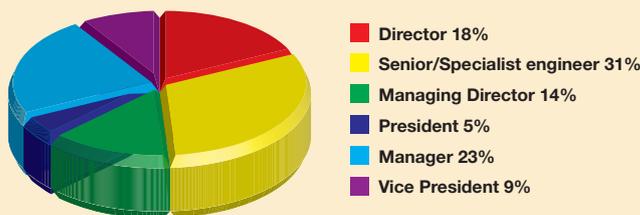
**“Provided a good overview of what is happening with offshore heavy oil, especially in NW Europe.”**

H Tiebout, SBM Offshore

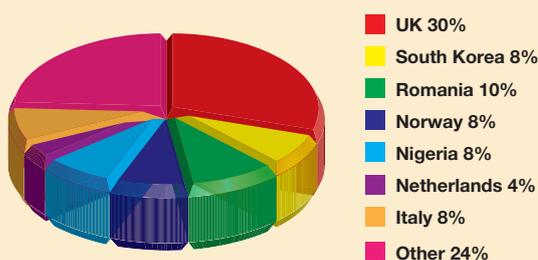
Now that some lessons have been learnt by major offshore heavy oil projects around the world, it is time to reassess its financial and technical viability.

This conference will look at this potentially lucrative future energy source from the perspectives of banker, petrophysicist, market analyst, technology developer and project manager among others. It will get to the heart of where future E&P opportunities lie and what research and development needs to still be undertaken to enable profitable recovery and production of viscous crude.

## 2010 Delegates by Job Title



## 2010 Delegates by Country



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There are still opportunities available to promote relevant products and/or services to this high level audience in the upstream oil and gas industry. To discuss a package tailored to your needs please contact **Lauren Wilcox** on [Lauren.Wilcox@informa.com](mailto:Lauren.Wilcox@informa.com) or **+44 (0) 20 7017 7674**.



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# Offshore Heavy Oil 2011

Thursday 24 November 2011

8:30 Registration, tea and coffee

9:00 Chair's opening remarks  
**Leonid Surguchev**, Vice President, **IRIS**, Norway

### Market review and financial analysis of offshore heavy oil

9:10 **Offshore heavy oil markets – trends and forecasts**

- Review of the global heavy and extra-heavy oil markets – worldwide reserves
- Understanding global supply & demand
- Role of heavy oil in meeting the world's future energy demands
- Future forecasts

Senior representative, **IHS**, UK

9:50 **A banker's view on commercial, technical and strategic challenges and opportunities**

- Potential financial risks involved in heavy oil fields
- What determines whether a heavy oil field is financially viable?
- Possible lending mechanics for new developments
- What are banks looking for in an application for finance for a heavy oil field?

**Jules van Limborgh**, Director, Oil and Gas  
**RBS Corporate and Institutional Banking**, UK

10:30 Morning tea and speedy networking  
Meet and exchange business cards with other the heavy oil specialists at the conference in a fun, relaxed environment.

11:10 **Health, safety and environmental challenges with offshore heavy oil production**  
Senior representative, **ERM, Certification and Verification Services**, UK

### Review of global heavy oil projects

11:50 **Venezuela: Orinoco Heavy Oil Field project update**  
The heavy oil reservoirs of the Venezuela Orinoco Belt present several formation evaluation challenges. The reservoir's rocks are unconsolidated and prone to sanding; the oil columns present highly variable crude viscosity and tar layers which affect completion and production strategies, and the fresh or brackish formation waters complicate the calculation of hydrocarbon volumes. Michel will present logging technology and analysis methods that have recently been developed and successfully used to estimate the formation and hydrocarbon properties of these reservoirs.  
**Michel Claverie**, Petrophysical Advisor  
**Schlumberger**, France

CASE STUDY

12:30 Lunch

13:30 **Challenges and opportunities of offshore heavy oil development**

- Can offshore heavy oil have an effective role to play in meeting global energy demands?
- Offshore heavy oil production as a commercial reality
- Current activities and future plans

Panelists include a selection of speakers from the two-day programme

PANEL DISCUSSION

# Performance improvement, recovery, reducing costs & environmental impact

## 14:30 Canadian heavy oil fields

Aker will discuss the lessons learnt from Canadian offshore heavy oil fields and how they might be applied to offshore developments.

Senior representative, **Aker Solutions**, Canada

15:10 Afternoon tea

## 15:40 Champagne roundtables

Discuss some of the most pressing issues in the development of offshore heavy oil fields over a bottle of bubbly. Topics to choose from include:

The impact of the UK tax regime on the development of heavy oil on the UKCS

Environmental regulations/legislation affecting European heavy oil fields

Macroeconomic factors that will influence the future of heavy oil projects

16:40 Chair's closing remarks

**Leonid Surguchev**, Vice President, **IRIS**, Norway

16:50 Close of day one

Friday 25 November 2011

## 9:00 Defining the technology gap

Producing heavy oil requires technology which may not yet be available. Where the technology gaps and what is being done to bridge them?

## Recovery, processing and production technology update

## 9:30 Topside production challenges and the use of advanced technology to secure production

The nature of heavy crude oils is challenging but so is the set of reservoir characteristics which complicate production. For heavy oil fields, water breakthrough occurs early in the field resulting in high produced water volumes and requirement to treat efficiently on the topsides facilities. By utilising advanced high-efficiency technologies for produced water treatment, the production facilities can be kept to a compact size and still produce at nominal rates. There is also potential in applying inline technology for bulk water removal as part of the subsea facilities. This presentation will showcase how such compact solutions can be configured.

**Mika Tienhaara**, Managing Director  
**ASCOM Separation**, The Netherlands

10:10 Morning tea

## 10:40 Thermal recovery developments – what are the options, benefits and pitfalls?

- Steam Assisted Gravity Drainage (SAGD) and XSAGD
- Solvent-steam injection
- In-situ combustion
- Field scale simulation
- Environmental impacts of thermal recovery

**Malcolm Greaves**, Professor Emeritus, Department of Chemical Engineering, **University of Bath**, UK

## 11:20 Heavy and waxy oil pipeline – lessons learnt for offshore projects

Colin will describe the electric heating technology used to transport 180,000 bpd of high wax crude through a buried 24" hot oil pipeline that is over 600km in length. This crude oil contains significant quantities of wax at a wax appearance temperature (WAT) of 65°C and the crude oil gels at 50°C. The pipeline heating must maintain the oil above the WAT. He will share the lessons learned during the design, manufacture, construction and operation of this electric heated pipeline and how this knowledge can be applied to offshore heavy oil projects.

**Colin McKinnon**, Technical Director, **J P Kenny Limited**, UK

CASE STUDY

12:00 Lunch

## 13:00 Technology roundtables

Stretch your legs and join a table of your choice to discuss one of the topics listed below with your peers before reporting back to the room with your findings.

Addressing flow assurance challenges in heavy oil fields

Artificial lift concepts for heavy oil

Enhanced oil recovery (EOR) in offshore heavy oil fields

14:30 Afternoon tea

## 15:00 Measurement of flow in viscous fluids

To date the most appropriate technologies for viscous flow measurement are not yet well defined. However NEL have completed an investigative programme into the performance of single-phase flow meters under high viscosity conditions. Chris will talk you through the response of a selection of established flow metering technologies when operated up to a viscosity of 300 cSt, and on an associated upgrade of the UK National Standards Oil Flow Facility at NEL to provide test fluids with viscosities up to 1500 cSt.

**Chris Mills**, Technical Consultant  
**NEL**, UK

## 15:40 Separation methods for viscous oil

- Crude oil dehydration
- Separability testing
- Produced water systems for heavy oil

**Jon Bernsten**, Senior Process Engineer, **Kanfa Mator AS**, Norway

## 16:20 Technology challenges involved in offshore heavy oil fields

Our panel of technology experts will share with you their views on the current technology challenges of developing offshore heavy oil including recovery methods, well design and integrity issues, artificial lift challenges and processing considerations.

Panellists include:

**Mika Tienhaara**, Managing Director, **ASCOM Separation**, The Netherlands  
Senior representative, **Teekay Petrojarl**, Norway

PANEL

17:00 Close of conference

To register call the booking hotline: **+44 (0)20 7017 5511**



# Offshore Heavy Oil 2011: Performance improvement, recovery, reducing costs & environmental impact

Thursday 24 & Friday 25 November 2011  
Mayfair Conference Centre, 17 Connaught Place, London W2 2ES, UK

## VIP CODE:

en/dc/sm/lw/sg/jl/tr

Event Code  
**FKA2238**

Reassess  
the technical and  
financial viability of  
offshore heavy oil  
now projects are  
underway

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### VENUE DETAILS

Mayfair Conference Centre, London  
17 Connaught Place, London W22EL

United Kingdom

Tel. +44 (0)20 7706 7700

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### ACCOMMODATION DETAILS

Please note that accommodation is not included in the delegate registration fee. Delegates wishing to book nearby accommodation can visit the **HotelMap** which has been set up for this event: <http://www.HotelMap.com/M6W29>.

### SPECIAL REQUIREMENTS

Please list below any special requirements you may have

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### STEP 1: SELECT YOUR PACKAGE (please tick option)

REGISTER BY 30th September 2011

REGISTER BY 21st October 2011

REGISTER AFTER 21st October 2011

| 2 Day Conference Package | £1199<br>(plus VAT @ 20% = £1438.80)<br><b>SAVE £200</b> | £1299<br>(plus VAT @ 20% = £1558.80)<br><b>SAVE £100</b> | £1399<br>(plus VAT @ 20% = £1678.80) |
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£200 discount available for 3rd and subsequent delegates from the same company

I am unable to attend but please reserve me \_\_\_set(s) of the conference documentation @ £399

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**£200 Discount**

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