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Deepwater & Ultra-deepwater Pipelines Conference

Rising to the challenges of design and installation through technical and strategic advances

Conference: Tuesday 27 – Wednesday 28 September 2011, Novotel Paris Les Halles, Paris, France • **Focus Day:** Monday 26 September 2011

Co-sponsored by

TATA STEEL

This conference will provide a unique opportunity to hear about:

- Developments in the design of pipelines to **manage risk more effectively**
- **Supply of installation vessels** to improve your operations
- Integrity management of pipelines to **ensure best practice and repair techniques**
- Methods for minimising pipeline corrosion **reducing your inspection and repair costs**
- How to **maximise your pipeline lifecycle** through our panel discussion on longevity of pipelines

Expert industry speakers include:

- Hervé de Naurois
Innovations
TOTAL E&P
- Dr Olav Aamlid
Principal Pipeline Specialist
Det Norske Veritas
- Jan van der Graaf
Vice-President Innovation
Heerema Marine Contractors BV
- Ian Nash
Business Acquisition & Operations Director, EAME
Peritus International
- Arjen Meijer
Project Manager
INTECSEA
- Scott Wilson
Head Consultant, Flow Assurance
Schlumberger
- Richard Freeman
Business Development Manager
Tata Steel
- Ron Tucker
Corporate Development Director
VerdErg Connectors
- Dr Afshin Motarjemi
Head of Subsea Advanced Analysis Group
Xodus Group
- Martijn van Driel
Manager
INTECSEA

Flow Assurance Focus Day

Monday 26 September 2011

Understanding the criticality of flow assurance in design and operation in deepwater environments

Learn in-depth about:

- New developments to help **improve conditions** of the flow
- Long-term strategies for ensuring **successful design and operation** for deepwater systems
- Different methodologies to help **increase production** and **reduce obstruction** to ensure an efficient flow





IBC Energy and co-sponsor, Tata Steel, are delighted to announce the Deepwater & Ultra-deepwater Pipelines conference 2011.

As the progression into deepwater & ultra-deepwater depths continues to increase so does the number of challenges associated with operating pipelines in this environment. As manufacturing, design, installation, inspection and repair methods develop, there is a need to keep up to date with the latest advances in this sector to ensure that your operations remain competitive.

You will hear about:

- TOTAL E&P's latest design developments for pipelines in deep and ultra-deepwater environments
- Heerema Marine Contractors' insight into requirements for the vessel installation process and why there is a shortage of vessels for deepwater environments
- Schlumberger's approach to long-term flow assurance techniques to maximise pipeline lifecycle

Tata Steel is a world leading supplier of steel pipeline packages to the most challenging subsea projects. The company manufactures an extensive size range of steel pipes in grades up to X70, with particular expertise in the production of thick wall, smaller diameter pipelines for deep sea applications.



Join our **OPT Series** LinkedIn Group: converse with fellow attendees and other interested parties involved in Offshore Pipeline Technology. Continue networking outside of the conference, stay informed of industry developments and meet new contacts!

www.ibcenergy.com/OPTLinkedIn

Day one – Tuesday 27 September 2011

08.30 Registration and coffee

09.00 **Chairman's welcome and opening remarks**
Dr Olav Aamlid, Principal Pipeline Specialist, **Det Norske Veritas**

Market outlook and opportunities associated with deepwater & ultra-deepwater pipelines

09.10 **Market outlook for the deepwater pipeline sector**
Shaun Heywood, Product Manager, **ODS-Petrodata**

09.40 **Case Study: Gas reserves off the North West Shelf of Australia**



The offshore natural gas reserves located off the north-west coast of Australia have ensured that the long-term opportunities that the deepwater and ultra-deepwater market provides remain highly optimistic. Through this case study, learn how piped gas is processed.

10.15 Morning tea

Understanding the deepwater and ultra-deepwater process from design to installation

10.45 **Collapse capacity of deepwater pipelines**

- Collapse capacity for UOE pipelines
- Background for the capacity equation in DNV-OS-F101
- The effect of the UOE process on collapse capacity
- Qualification of enhanced collapse capacity from controlled manufacturing and light heat treatment

Dr Olav Aamlid, Principal Pipeline Specialist, **Det Norske Veritas**

11.20 **Case Study: Submerged arc welded pipes (SAW) pipes**



Submerged arc welded (SAW) pipes are manufactured by the UOE method and are generally the most cost effective solution for larger diameter subsea pipelines. At larger diameters and in ultra-deepwater hydrostatic collapse can become the limiting failure mode and there is much debate over the resistance of these pipes to this mechanism. This case study will investigate the current accepted design practices and look at methods that can be employed to generate pipe of superior performance. It will also look at the latest developments in testing mechanisms and failure mode analysis.

Richard Freeman, Business Development Manager, **Tata Steel**

12.10 **Lateral buckling in deepwater**

- Review of lateral buckling and current flows
- HPHT flowlines in deepwater
- Mitigating the challenges of lateral buckling
- Examples of lateral buckling

13.00 Lunch

14.00 **Design Case Study**
Hervé de Naurois, Innovations, **TOTAL E&P**

14.40 **Record breaking gas transmission lines, longer, larger and deeper**

- Ever increasing water depths
- Difficult seabed conditions
 - Steep slopes at the continental slope crossings
 - Geohazard risks
- Active seismo-tectonic framework
- Slope Instability
- Gas features
- Mud volcanoes
- Potentially aggressive / corrosive subsea environment (pH, H₂S and SRB)
- Technology Development Program on-going
 - A large number of trial pipes produced
 - Pipe collapse resistance, weldability and Sour Resistance thoroughly tested and studied
- Major survey campaigns engaged for routing and geo-design

Martijn van Driel, Manager and **Arjen Meijer**, Project Manager, **INTECSEA**

15.40 **Quickfire Technology Showcase and afternoon tea**

Technology providers will have two minutes each to convince our audience and panel of experts of their technologies.

16.10 **Vessels: tackling the limitation in vessel supplies**

- Understanding installation vessels needed for deepwater
- Designing and developing installation vessels
- Difficulties associated with the vessel use in deepwater pipelines

Jan van der Graaf, Vice-President Innovation, **Heerema Marine Contractors BV**

16.50 **Case study: Middle East to India Deepwater Pipeline (MEIDP) requirements for Installation, Intervention and Emergency Repair**

 This case study will look at the specific Middle East to India Deepwater Pipeline (MEIDP). Along with installation vessels, intervention vessels and emergency pipeline repair systems, Ian will also discuss what is currently available in the marketplace; highlight where gaps exist and future plans.

Ian Nash, Business Acquisition & Operations Director, EAME, **Peritus International**

17.20 Chairman's closing remarks and end of Day 1

17.30 Networking drinks reception



Day two – Wednesday 28 September 2011

09.00 Morning tea

09.30 Chairman's opening remarks

Inspection, maintenance and monitoring

09.35 **Engineering Criticality Assessment (ECA) of deepwater pipelines**

- What is an Engineering Criticality Assessment (ECA)?
- Industry best practices for performing Engineering Criticality Assessment of deepwater pipelines
- Challenges in ECA of deepwater pipelines (HP/HT and Sour service)
- Application of ECA through project life time (Installation, Operation and beyond design life) in developing integrity management philosophies
- Developing Non-destructive Testing (NDT) acceptance criteria for girth welds of deepwater pipelines during the installation and operation using ECA

Dr Afshin Motarjemi, Head of Subsea Advanced Analysis Group, **Xodus Group**

10.15 **Flow assurance to maximise the pipeline lifecycle**

- Understanding flow assurance at a deepwater level
- Understanding the process involved
- Long-term techniques to ensure a successful flow

Scott Wilson, Head Consultant – Flow Assurance, **Schlumberger**

11.00 Morning tea

11.30 **Roundtable discussion sessions**

The roundtable session provides you with the opportunity to choose two topics of interest to you and discuss in-depth, with industry experts, the specific issues.



- Market opportunities for in Brazil's deepwater market and presalt reserves



- Deepwater activities in West Africa



- Comparing different deepwater and ultra-deep water depths – should there be an accepted standard?



- Developments in deepwater flowlines and risers

12.30 Report back to main room

12.45 Lunch

13.45 **Inspection maintenance and repair of deepwater pipeline systems**

- Requirements for pipeline inspection: what, when and how
- Pipeline maintenance and routine intervention.
- Pipeline damage during installation and operation in deepwater, causes and effects
- Understanding the real risks and potential need for repair
- Repair systems, tools and techniques

Ian Nash, Business Acquisition & Operations Director, EAME, **Peritus International**

14.20 **Strategies for effective management of pipeline corrosion**

- Understanding corrosion at deepwater level
- Minimising the risks of external corrosion
- Impact of coating material on corrosion
- Developing technology to help minimise corrosion

15.00 **Speedy business networking and afternoon tea**

Meet new contacts in a relaxed and fun atmosphere and maximise your networking time. Don't forget to bring your business cards!

15.30 **Panel discussion: Technological advances to ensure longevity of pipeline**

Hear our panel of industry experts discuss how evolution in pipeline technologies for deepwater & ultra-deepwater environments can help lengthen the lifetime of pipelines.

16.25 Chairman's closing remarks

16.30 Close of conference

O&G by distance learning



Study while you continue to work and maximise your career prospects with the Masters in Business Administration for the oil and gas industry.

Deadline for 2011 entry: **5th September**.

See full details at www.ibcglobalacademy.com/ogmba

Sponsorship & Exhibition Opportunities

Join our sponsors, exhibitors and industry colleagues at the Deepwater & Ultra-deepwater Pipelines Conference and give your organisation the chance to:

- Launch new products
- Meet and establish new contacts
- Come into contact with the industry's leading decision makers
- Demonstrate your expertise and services in line with the conference objectives

For further information or to discuss individual requirements, please contact **Joseph Cleary** on +44 (0)20 7017 4828 or e-mail joseph.cleary@informa.com

HEAR WHAT DELEGATES TO OUR FLAGSHIP OPT EVENT HAD TO SAY:

"Very well organised and managed. Excellent opening keynote speech"

(A Parsa, Saipem)

"Excellent overall organisation of the event. Very good selection and break down of the subjects and lecturers"

(A Marret, Technip)

"I enjoyed the conference, having a good range of topics, interesting sessions and good for networking"

(R Harrison, Saipem)

"Very useful for networking"

(W Tuinmeri, Van Oord Offshore)

OTHER EVENTS IN THE OPT SERIES

Offshore Pipeline Integrity Management

13-14 September 2011, London

Offshore Pipeline Installation Methods

10 -11 November 2011, London

35th annual Offshore Pipeline Technology

6-7 March 2012, Amsterdam

www.opt-events.com



Focus Day – Flow Assurance

Monday 26th September 2011

Understanding the criticality of flow assurance in design and operation for offshore production in deepwater environments

09.00 Registration and coffee

09.30 Chairman's opening remarks

09.40 **Evaluating different methodologies to improve flow assurance**

- Techniques used in flow assurance
- Increasing production through clear flow
- Harmful effects of obstruction on pipelines
- Minimising the risks through best practice

10.40 Discussion session

11.00 Morning coffee

11.30 **Assuring production with thermal insulation**

- Design of thermally insulated systems
- Emergence and application of new aerogel materials
- Thermal insulation case studies

Ron Tucker, Corporate Development Director, **VerdErg Connectors**

12.30 Discussion session

12.50 Lunch

13.50 **New developments for improving flow conditions**

- Understanding optimal flow conditions
- Harmful effects of obstruction in pipelines
- Minimising the risks through best practice and use of technology

Scott Wilson, Head Consultant – Flow Assurance, **Schlumberger**

14.50 Tea break

15.15 **Open discussion session**

Evaluating long – term developments in techniques for ensuring successful design and operation for deepwater systems

16.00 Closing remarks and close of workshop

Focus Day Leaders include:

Ron Tucker is a Mechanical Engineer with over 15 years experience in the offshore oil and gas business. Originally with INTEC Engineering, his technical experience has been primarily associated with flow assurance, design for collapse and design of thermal insulation for deepwater pipeline and subsea systems. He has worked on many of the leading international projects in the Gulf of Mexico, Southeast Asia and West Africa. Projects of note have included the Blue Stream Gas Pipeline, West Delta Deep Subsea Development and the Ormen Lange Subsea Pipeline System. As Corporate Development Director at VerdErg, Mr. Tucker now heads a department which seeks to commercialise new subsea technologies for deepwater fields.

Scott Wilson is a Chemical Engineer by background, having started his career with major EPC contractor Kvaerner Oil & Gas in the late nineties. Over the past 14 years, he has spent time in both engineering design and operations, and worked in a variety of locations worldwide. In 1999, Scott got his first experience of flow assurance and has been specialising in this field for the past 9 years wherein he has worked on a variety of international projects, covering all aspects of development from concept evaluation through to final commissioning. Further, he has trained more than 200 engineers worldwide in the discipline of flow assurance and specifically the application of computational simulation methods in this area. In 2010, Scott joined the leading oilfield services company Schlumberger, where they are bringing together industry-wide expertise to provide a total flow assurance solution to the industry.



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Flow Assurance Focus Day: Monday 26 September 2011
Novotel Paris Les Halles, Paris, France

VIP CODE:

en/nm/tc/jc/bw/tr

Event Code
FKA2229

Improving
pipeline potential
in deepwater
environments

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Reduced Rate Hotel Accommodation: The cost of the accommodation is NOT included in the event fee. To book accommodation directly with the hotel, please quote the event title and a special booking form will be sent to you.

SPECIAL REQUIREMENTS

Please list below any special requirements you may have

TERMS & CONDITIONS

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STEP 1: SELECT YOUR PACKAGE (please tick option)

	DATES	REGISTER BY 15 th July 2011	REGISTER BY 26 th August 2011	REGISTER AFTER 26 th August 2011
3 DAY PACKAGE Conference + Focus day	26 – 28 Sept	<input type="checkbox"/> £1798 (+19.6%TVA) = £2150.41 SAVE £300	<input type="checkbox"/> £1898 (+19.6%TVA) = £2270.01 SAVE £200	<input type="checkbox"/> £1998 (+19.6%TVA) = £2389.61 SAVE £100
2 DAY PACKAGE Conference Only	27 – 28 Sept	<input type="checkbox"/> £1199 (+19.6%TVA) = £1434.00 SAVE £200	<input type="checkbox"/> £1299 (+19.6%TVA) = £1553.60 SAVE £100	<input type="checkbox"/> £1399 (+19.6%TVA) = £1673.20
1 DAY PACKAGE Focus Day Only	26 Sept	<input type="checkbox"/> £699 (+19.6%TVA) = £836.00		

The VAT rate may differ from the advertised rate. The amount you are charged will be determined when your invoice is raised. All discounts can only be claimed at the time of registration and conference fee discounts cannot be combined with other discounts that may be available (apart from early registration discounts which are available to everyone). Further discounts are subject to approval. Please note the conference fee does not include travel or hotel accommodation.

We are happy to accept a replacement delegate for the whole event, however, delegate passes cannot be split or shared between delegates under any circumstances.

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