

PRESS RELEASE

**SUBSEA 7 TO DELIVER 5 TECHNICAL PAPERS AT OTC ON
MONDAY 2ND MAY 2011**

On Monday 2nd May 2011, Subsea 7 will deliver five technical papers, showcasing examples of its capabilities in deepwater markets, its engineering and technical expertise at the Offshore Technology Conference (OTC) in Houston, Texas. Today's papers are highlighted below:

Paper no. 21803 - Lateral Buckling and Pipeline Walking Mitigation in Deep Water

D. Perinet, J. Simon, Subsea 7.

This paper will form part of the SAFEBUCK JIP: The Lateral Buckling and Walking of Pipelines session and will be presented at 0952hrs.

Abstract:

The pipelines and associated structures are major components of the subsea deep water oil and gas production. Deep water production requires the transportation of multiphase hot products under high pressure and temperature. In deep water the soil is usually very soft clay of high plasticity with high water content. Both of these elements are major aggravating factors for pipeline instabilities: lateral buckling and pipeline walking. The paper presents and illustrates practical measures which are developed by the contractors for mitigating the risks of failures associated to these instability phenomenons.

The following papers will form part of the Deployment of Subsea Equipment session:

Paper no. 21250 - Criteria for the Operation of Lowering a Structure to the Seabed, Based on the Installation Vessel Motion

J-L Legras, J. Wang, Subsea 7

PRESS RELEASE

Time: 1422hrs

Abstract:

The paper is related to the installation on the seabed of heavy structures like manifolds or subsea processing modules and their foundation. The traditionally used criteria for this type of offshore operation are often implemented offshore with difficulty and inaccuracy. A new method to determine criteria for lowering operations to be applied just before the operation is based on real time monitoring of the vessel motion and time domain simulation by appropriate software of the dynamic behaviour of the lowering system under the imposed motion. The paper includes a detailed description of the method and of the instrumentation and lessons learnt and conclusions from the first projects during which the system has been used.

Paper no. 21588 - Qualification of Large Diameter Fiber Rope for Deepwater Construction Applications

R. Tornqvist, M. Strande, DNV; D. Cannell, Technip; P. Gledhill, Subsea 7; P. Smeets, DSM Dyneema; J. Gilmore, Samson

Time: 1528hrs.

Abstract:

This paper describes the SIRUS (Safe Installation with Ropes in Ultradeep Sea) JIP's full scale testing programme conducted to determine the bend fatigue performance of large diameter fibre ropes with HMPE fibres on small diameter sheaves, together with a summary of the results and the impact the results have on installation operations.

Paper no. 21680 Deployment of Subsea Equipment - Lessons Learnt From Lifting Operations and Towing of Heavy Structures in North Sea

K. Aarset, A. Sarkar and D. Karunakaran, Subsea 7

Time: 1550hrs

PRESS RELEASE**Abstract:**

Larger and heavier subsea structures are being installed in harsh environments and in deep waters. Sophisticated lifting analysis is needed to establish safe installation criteria. In addition, novel installation methods need to be devised to install heavy structures using small vessels. In this paper, state-of-the-art installation analysis based on DNV-RP-H103, with a new approach to model the complex hydrodynamic loads at splash zone is described. Through recent installation work, this procedure is exemplified and the lessons learnt from the installation of subsea structures and long spools are discussed. A novel method by sub-surface tow, to install heavy subsea structure using a small construction vessel is also outlined and the lessons learnt discussed.

Paper - 3D Subsea Challenges: Offshore Energy, Marine Archaeology and Water Rescue 3D

B. Curtis, Subsea 7

This paper will form part of the Petrotechnical Visualisation session and will be presented at 1120hrs

Overall, Subsea 7 will deliver 11 Technical papers during this year's OTC. To find out more visit Subsea 7 at booth #2824 in the Reliant Centre.

-Ends-

2nd May 2011

For further information:

Visit Subsea 7 at booth #2824 in the Reliant Centre or contact: Julie Gauld, Subsea 7 Communications Manager, Tel: +44 (0)1224 526270 or Email: julie.gauld@subsea7.com

Notes to editors:

1. Subsea 7 S.A. is a seabed-to-surface engineering, construction and services contractor to the offshore energy industry worldwide. We provide integrated services, and we plan, design and deliver complex projects in harsh and challenging environments.

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