You are cordially invited to a seminar organized by Center for Offshore Research and Engineering, CORE and Department of Civil Engineering, NUS on

Anchoring of Mooring Systems for Floating Structures

by

Paul Brunning
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Acery Group

Date: Wednesday, 14 October 2009
Time: 4.30 pm – 6.00 pm
Refreshment will be served at 4.15 pm.
Venue: EA–02–11, Executives Seminar room,
Faculty of Engineering, National
University of Singapore

Abstract

Within most of the worlds main hydrocarbon producing areas there has been a progression from shallow to deep water and this has led to changes in facilities which have evolved from fixed type platforms to floating structures. These “floaters” come in a wide variety fulfilling different functions and can range from relatively small temporary facilities such as mobile offshore drilling units (MODU) brought in on a short term basis to more permanent large structures and vessels such as spars and FPSO (floating production, storage and offloading) tankers.

Regardless of type or function, all floating structures have to tether to the seabed via a mooring system and these developments have led to a variety of innovative anchoring systems.

The lecture begins with a broad overview of the various types of floating structures and looks at the key components of a typical catenary mooring system.

Several different types of anchor are currently used by the industry to fix mooring lines; the main ones include suction piles, drag anchors, plate anchors, driven piles, dynamically penetrating anchors along with some hybrids. Each anchor type is presented and their applicability to different seabed environments and mooring arrangements is discussed.

The lecture concludes with a look at the offshore operations and equipment required to install a mooring system and its anchors and the proof loading or pre-tensioning of the mooring lines.

About the speaker

Paul has more than 25 years of both technical and operational experience of construction in the
Civil Engineering and Oil and Gas industries in Europe, the Americas, Middle East and Asia.

He is employed by Acergy and is currently based in Singapore. Paul has been the Discipline Manager for geotechnics at Acergy since 1999 and is not only responsible for geotechnics in the Asia and Middle East region but also has a global role as coordinator for geotechnics across the Acergy Group. More recently he has also taken on the role of Research & Development correspondent for the Asia region.

Paul has published several technical papers on the subjects of pipe-soil interaction, burial of pipelines and upheaval buckling and has participated in the development and updating of industry codes of practice for marine geotechnical and geophysical surveys.

His current research interests are pipeline soil-interaction and is presently managing a research project with the University of Western Australia investigating this subject.

Paul is a Member of the Geological Society of London and a Member of the Institute of Marine Engineers, Scientists and Technicians.

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Location Map of Seminar Venue

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