

Presents

The 21st Offshore Symposium

Emerging Offshore Technology and Deepwater Trends

February 16, 2016

Houston, Texas



SNAME

INTERNATIONAL COMMUNITY
FOR MARITIME AND OCEAN PROFESSIONALS

www.snamesymposium.com



Lunch Keynote

Design One, Build Two – A Success Story in Delivering
Two Challenging Mega Projects in the GoM™

Mr. Don Vardeman

Vice President of Worldwide Projects, Anadarko

11:30AM – 12:45PM, Salon E-F

Ethics Course

Presenter: George Hartmann, Texas Board of Professional Engineers

7:30 AM - 8:30 AM

Room: Briarpark

Opening Session

Chair: Thalia Kruger, ABS

Co-Chair: John Bandas, MARIN

8:30 AM - 9:45 AM

Room: Salon A-D

Storage and Offloading Aspects of Containment System in a Cap and Flow Scenario

Thomas Sellers, Tom Koster, Chandra Dhiman

MARIN, Cobalt International Energy, AET

International Shipbuilding and Repair Facility in Nigeria West Africa

Herman J. Schellstede

Herman J. Schellstede and Associates, Inc.

Screening of Field Development Options Using the Analytic Hierarchy Process and Even Swaps Analysis

Yongyan Wu, Roger Lu, Tao Wang, Vishnu Vijayaraghavan, Rolf Eide

Aker Solutions

Coffee Break / Student Poster Session

9:45 AM - 10:00 AM

Morning Session I : Computational Fluid Dynamics

Chair: Amal Phadke, Conoco Phillips

Co-Chair: Ping Lu, ABS

10:00 AM - 11:30 AM

Room: Salon A-D

Economically Viable Applications of Seakeeping in CFD

Nicholas A. Barczak, Jefferey D. Reifsnnyder, Roger C. Hatfield

Alan C. McClure Associates, Gold Coast Yachts

CFD Techniques for Predicting VIV of a Circular Cylinder

Worakanok Thanyamanta, Muhammed Islam

Oceanic Consulting

Best Practices for CFD Analysis of VIM and VIV for Offshore Structures

Mustafa C. Kara, Jan Kaufmann, Volker Bertram, Robert B. Gordon, Partha Sharma

DNV GL

Uni-directional and Alternating Flow around 2-D Rigid Cylinder – Experimental and Computational Study

Spyros A. Kinnas, Guangyao Wang, Ye Tian

University of Texas at Austin

Morning Session II : Mooring Systems

Chair: KT Ma, Chevron

Co-Chair: Amir Izadparast, SOFEC

10:00 AM - 11:30 AM

Room: Briarpark

Critical Issues in the Design of FOWT Mooring Systems when Comparing to Oil & Gas Industry Standards

Martin Dumont, Olivier Cartier, Aude Leblanc, Cristina Bouillon

BV

On the Monitoring of Mooring System Performance

Sue Wang, Ping Lu

ABS

Mooring System Design and Analysis for the Delta House Semisubmersible

Zhigang Tian, Branka Radanovic, Otto Dasilva, Glen Authement

Exmar Offshore Company

MODU Mooring Design Considerations in the Arctic Environment

Gaurav Singhal, Jun Cheng, Antony Croston, Alan Whooley

Wood Group Kenny

Morning Session III : Subsea / Risers

Chair: Ruxin Song, Conoco Phillips

Co-Chair: Brian Healy, DNV

10:00 AM - 11:30 AM

Room: Richmond

Multiphase Flow-Induced Vibration Analysis for Subsea Rigid Tie-in Spool

Zhiliang Li, Meng-Lung Liu, Hao Song, Gwo-ang Chang
ABS

Riser Sizing for HPHT Applications

Assem Mahmoud, Mike Mao, Steven Wang, Chengye Fan
Wood Group Kenny

Investigation of Steel Lazy Wave Riser Flexible Joint Angle Hosted on a Semi-submersible FPU in Very Harsh Environment

Alaa Mansour, Shankar Bhat, Cheng Peng, Dharma Pasala
Intecsea

The Study of Drill Ship Drilling in Shallow Water (500ft-2500ft) and Drift Off Analysis

Shiyu Chen, Chris Stewart, Xiaochun Shen
EnSCO PLC

Luncheon Keynote

11:30 AM - 12:45 PM

Room: Salon E-F

Afternoon Session I: Hydrodynamics

Chair: Jim O'Sullivan, Technip

Co-Chair: Hisham Moideen, Houston Offshore Engineering

12:45 PM - 2:15 PM

Room: Salon A-D

Evaluation Of Green Water Loads On Offshore Structures Using A Numerical Wave Basin

Daniel Barcarolo, Nicolas Couty, Luke Berry, Erwan Jacquin, Pierre-Michel Guilcher, Alain Ledoux, Thimothee Lefebvre, Nicolas Legrereois, Jonathan Boutrot, Quentin Derbanne, L.Beguine, Guillaume Ducrozet, David Le Touze
Hydrocean, Nextflow Software, Total, Technip, Bureau Veritas, Ecole Centrale Nantes

Column Configuration and Wave Enhancement in the Wellbay of Offshore Floating Production Units

Alaa M. Mansour, Dhiraj Kumar
Intecsea

Comparative Study Of A Paired-Column Semi-Submersible And A Truss Spar With Direct Vertical Access Feature In Ultra-Deep Water In West Gulf of Mexico

Brajesh Kumar, Jun Zou
Houston Offshore Engineering

Deterministic Breaking Wave Simulation for Offshore Applications

Joop A. Helder, Tim Bunnik
Marin

Afternoon Session II : FPSOs

Chair: Arjan Voogt, MARIN

Co-Chair: Arvind Kamalasanan, SBM Offshore

12:45 PM - 2:15 PM

Room: Briarpark

Prediction of Design Loads for Structure Design of FPSO Turret

Yanbin Bai, Zhiyong Su, Xiaochuan Yu, Hui Shen, Yaxin Song, Yong Luo
COTEC Inc., University of New Orleans

Collision Avoidance System for FPSO – Shuttle Tanker Berthing

Mark Azadpour, Sanam Saebi
Azadpour Enterprises, SBM Offshore

A Panel Method Applied to the Prediction of the Performance of Ducted Propellers and Thrusters

Spyros Kinnas, Hongyang Fan, Ye Tian
University of Texas at Austin

The Low Motion FPSO (LM-FPSO); a Novel SCR Friendly Floater for Deepwater in Brazil Persistent Swell Environment

Ricardo Zuccolo, Alaa Mansour, Chunfa Wu, Jefferson Azevedo
Intecsea

Afternoon Session III : Renewables / Mobile Platforms

Chair: Vincent Yu, University of New Orleans

Co-Chair: Daniel Dabrowski, Alan C. McClure Associates

12:45 PM - 2:15 PM

Room: Richmond

Wind Turbulence Effects in Global Responses of a 5MW Wind Turbine Three-Column TLP

Ikpoto E. Udoh, Jun Zou
Houston Offshore Engineering

Design Challenges of a Hybrid Platform with Multiple Wind Turbines and Wave Energy Converters

Sung Youn Boo, Kyong-Hwan Kim, Kangsu Lee, Sewan Park, Jong-Su Choi, Keyyong Hong
VL Offshore, Korea Research Institute of Ship and Ocean Engineering

Improvement of Jack-up Operating Capability Using Add-on Spudcans

Joost Janssen, Hugo Hofstede, Maas Hoogeveen
GustoMSC

Jackups Going on Location - Understanding Energy Principles on Leg Impact Loads

Jose H. Vazquez, Barton D. Grasso, Marcus A. Gamino, Wei Wang
3Dent Technology

Coffee Break / Student Poster Session

2:15 PM - 2:30 PM

Closing Session I : Integrity Management

Chair: Dan Gallagher, Energo

Co-Chair: Sai Majhi, ExxonMobil

2:30 PM - 4:00 PM

Room: Salon A-D

Subsea Systems Reliability Improvements Inspired by the Aerospace Industry

Olivier Benyessaad, Pierre Secher, Emmanuel Arbaretier, Nicolas Legregeois
BV, APSYS

Mini ROVs for UWILD and Tank Surveys of Offshore Installations

Kyle Satula, Mark Waller
Proceanic

Class Approach For Life Extension Process Of Floating Production Installations

Shewen Liu, David Hua, Christiane Machado, Jer-Fang Wu
ABS

Integrity Management Services for Floating Units from Design to Decommissioning

Jonathan Boutrot, Nicolas Legregeois
BV

Closing Session II : Emerging Technology

Chair: Robert Randall, Texas A&M University

Co-Chair: Abel Medellin, McDermott

2:30 PM - 4:00 PM

Room: Briarpark

Ultra-Deepwater Gas Field Development Options: A Study On FLNG and 'Subsea-To-Beach' Optimal Applicability

Luis Barrero, Francesco Beltrami
Granherne - KBR

Optical Fiber Sensors for Subsea and Topside Asset Integrity Monitoring Applications

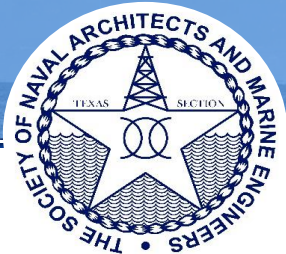
Victor Servette, Vincent Lamour
Cementys

New Guidelines for Certification of Offshore Access Systems Using Motion Compensated Gangways

Benjamin Eustache, Roland Werkhoven, Laura-Mae Macadre, Gijbert de Jong, Nicolas Legregeois
BV

A Dynamic Substructuring Approach to Improved Global Structural Dynamic and Stress Analysis of Topside/Hull Systems

Arya Majed, Alaa Mansour, Luca Chinello, Yaming Wan
Intecsea



“Panel Session”

04:00PM– 05:00PM, Salon A-D

“Robustness of Floating Platforms”

Panelists:



David Wisch
Chevron Fellow, Chevron ETC



Arun Duggal
Director, R&D, SOFEC



David Knoll
API SC2 Member & Shell Retiree



Steve Leverette
VP Technology, SBM Offshore

Moderators:



James N. Brekke
Account Manager – Offshore, ABS



Brian Cheater
Director, Naval Architecture, Gusto MSC

Award Ceremony and Closing (Salon A-D)

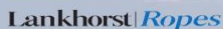
5.00pm - 5.15pm

Reception (Rosegarden)

5.15pm - 7.00pm

Special Thanks to our
Silver Sponsors:

Other Sponsors:



Symposium Committee



Manoj Jegannathan; Technip
Symposium Chair



Samuel Linder; Granherne-KBR
Symposium Vice-Chair



Mischa Dylewski; Granherne-KBR
Technical Committee Chair



Daniel Dabrowski; Alan C. McClure
Associates, Inc.
Technical Committee Vice-Chair



Ping Lu; ABS
Committee Member



Angela Zhu; ABS
Sponsorship & Publicity Chair



Abel Medellin; McDermott
General Secretary

Symposium Advisors



Sai Majhi; ExxonMobil
Symposium Advisor



Amir Izadparast; SOFEC
Symposium Advisor



Hisham Moideen; Houston Offshore
Engineering
Symposium Advisor



Arun Antony; Houston Offshore
Engineering
Symposium Advisor