MCE DEEPWATER DEVELOPMENT 2014 8-10 APRIL, 2014 Palacio Municipal de Congresos de Madrid · Spain WWW.MCEDD.COM

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Meeting Demand: Innovation, Integrity & Investment

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Letter from the Co-Chairmen

WELCOME TO MCE DEEPWATER DEVELOPMENT 2014!

We welcome all of this year's participants to MCEDD and look forward to 3 days of outstanding technical presentations and many networking opportunities. This year, representatives from 50 companies are active throughout the Technical Program.



This year theme "Meeting Demand: Innovation, Integrity & Investment" captures the struggle between increasing demand for crude oil, which drives the industry into ever more remote areas, and

the subsequent challenge posed by trying to balance the need for cutting edge technology and increased sense of social responsibility against the reality of an increasing capital cost basis. We invite you to take advantage of these 3 days to network with both Operators and Contractors and to attend the technical programs to help understand the challenges we are all facing and the proposed solutions that are available. Thank you for attending and I hope we get the chance to meet!

Frans Pieter Lindeboom

MCEDD 2014 Chairman Category Manager Offshore Rigs Repsol Exploration SA



The Deepwater Industry is reaching a level of maturity where we have to pay attention not only to the new exciting developments but also to the large number of producing facilities installed over

the last 2 decades. There are many challenges with long term integrity and reliability which we must address as an industry and where shared experience can help us all to improve overall productivity. The Conference has many presentations addressing these issues and we trust you will find these stimulating and valuable in your day to day work.

David A. Brookes MCEDD 2014 Chairman Senior Consultant Subsea and Floating Systems BP E&P Sunbury UK

Welcome to MADRID



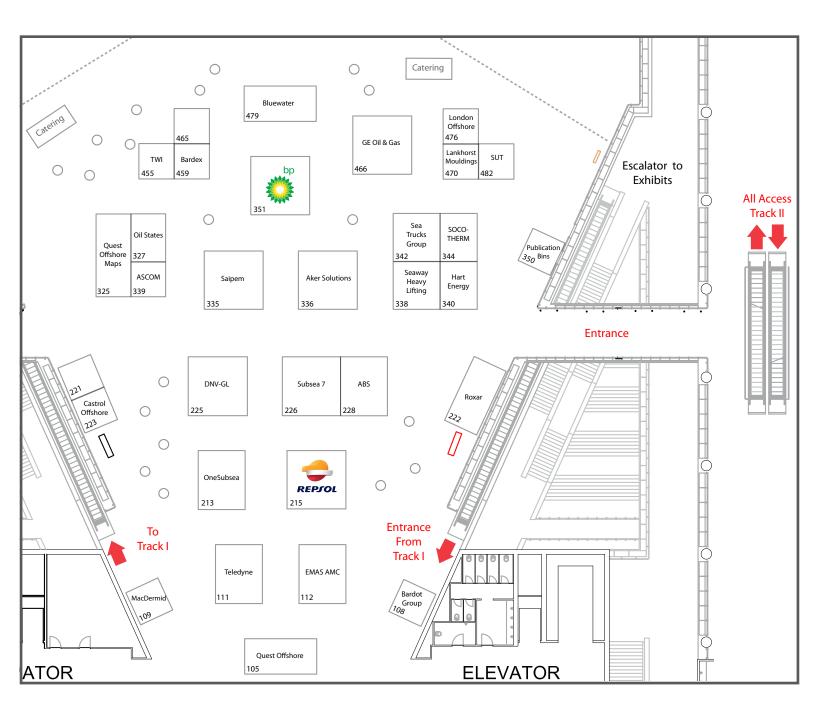
Thank You Sponsors



Agenda

	Track I	Track II
	Tuesday, 8 April 2	014
09:00 - 20:00	Registration &	Badge Pick-Up
11:00 - 13:00	Welcome & Op	pening Session
13:00	Exhibition	Hall Opens
13:00 - 14:30	Lunch followed by Dessert & Co	offee (Exhibition Hall) Sponsored by 💮
14:30 - 16:00	Deepwater Surveillance Conditioning & Monitoring	Global Pipeline & Riser Strategies
16:00 - 17:00	Coffee Break (Exhibit	tion Hall) Sponsored by Seeway Heavy Lifting 🏹
17:00 - 18:30	Subsea Flow Assurance Challenges & Opportunities	Enhanced Well Technologies
18:30 - 20:00	Ice Breaker Reception (E	Exhibition Hall) Sponsored by 👹
Wednesday, 9 April 2014		
09:00 - 18:45	Registration &	Badge Pick-Up
09:00 - 10:00	Continental Break	fast (Exhibition Hall)
10:00 - 11:30	Scene Setting: Meeting Demand:	Innovation, Integrity, Investment
11:30 - 12:15	Coffee Break (Exhibit	tion Hall) Sponsored by Seaway Heavy Lifting 🀬
12:15 - 13:45	Subsea Power Technologies	Deepwater Heavy-Lift Operations
13:45 - 15:00	Lunch followed by Dessert & Co	offee (Exhibition Hall) Sponsored by 🦪 🏹 🏹
15:00 - 16:30	Global Subsea Enablers	Advancements in FPS Design & Life of Unit Performance
16:30 - 17:15	Coffee Break (Exhibit	tion Hall) Sponsored by Seaway Heavy Lifting 🀬
17:15 - 18:45	Subsea Processing Innovations	Well Planning, Safety & Construction
19:30 - 22:00	Repsol Cocktail Reception (7)	hyssen-Bornemisza Museum)
	Thursday, 10 April	2014
09:00 - 17:00	Registration &	Badge Pick-Up
09:00 - 10:00	Continental Break	fast (Exhibition Hall)
10:00 - 11:30	Innovations in Extreme Environment Technologies: High Pressure & Temperature	Increasing Hydrocarbon Recovery
11:30 - 12:15	Coffee Break (Exhibit	tion Hall) Sponsored by Seaway Heavy Lifting 🏹
12:15 - 13:45	North Sea Deepwater Case Studies	Deepwater Developments: Increasing Demand While Maintaining Quality & Reliability
13:45 - 15:00	Lunch followed by Desse	rt & Coffee (Exhibition Hall)
15:00	Exhibition Hall Clo	oses for Dismantle
15:00 - 16:30	Global Natural G	as Developments
16:30 - 17:00	Awards & Clo	sing Remarks

Exhibition Floor Plan



Exhibitor Directory

Arranged Alphabetically

ABS228
Aker Solutions
ASCOM
Bardex Corporation459
BARDOT Group108
Bluewater
BP
Castrol Offshore
DNV GL
EMAS AMC112
GE Oil & Gas466
Hart Energy
Lankhorst Mouldings470
London Offshore Consultants
MacDermid Offshore Solutions109
Oil States Industries, Inc
OneSubsea213
Quest Maps
Quest Offshore
Repsol
Roxar a business unit of Emerson Process Management
Saipem
Sea Trucks Group
Seaway Heavy Lifting
SOCOTHERM
Subsea 7
SUT482
Teledyne Oil & Gas111
TWI Ltd455

Quest Offshore
BARDOT Group108
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ASCOM
Hart Energy
Sea Trucks Group
SOCOTHERM
BP
TWI Ltd455
Bardex Corporation459
GE Oil & Gas466
Lankhorst Mouldings470
London Offshore Consultants476
Bluewater
SUT482

Arranged by Booth Number

Transportation Information

Addresses

MCEDD Conference Center:

Palacio Municipal de Congresos de Madrid Avenida de la Capital de España Madrid, 7 28042 Madrid

Thyssen-Bornemisza Museum:

Palacio de Villahermosa, Paseo del Prado 8 Madrid, 28014 Spain Tel: (+34) 90 276 05 11

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Airport Shuttle Service

A courtesy shuttle service is available from the airport to each hotel and back every 30 minutes from 6:00 to 23:30, Monday to Sunday.

T-1 International Arrivals, Gate 2

T-2 National Arrivals, Between Gates 4 and 5

T-4 Arrivals, Bus Exit

Global Subsea Activity Realizes Recovery with Record Award Year

Global subsea tree award levels reached a new high-water mark in 2013 with over 550 units ordered representing over US\$14 billion a notable reversal from the past five years of depressed execution levels. Quest forecasts over a 50% growth in subsea tree awards in 2014-2018 with Africa, the North Sea and Brazil representing 70% of cumulative future demand.

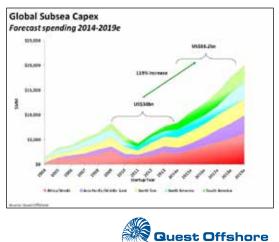
Quest's subsea tree award forecast for worldwide demand excluding Brazil in 2014 projects 17% growth over 2013(mean/most likely case). It is widely accepted that Brazilian activity in 2014 will be muted, perhaps considerably, from 2013's record level of subsea tree demand. However, growth in other key deepwater basins (particularly throughout Africa and the North Sea) is expected to offset declining Brazil orders. Quest projects 340-430 subsea trees to be ordered for regions outside Brazil in 2014 (base to mean case range).

A robust, long-term outlook for subsea equipment awards will set the stage for increased infrastructure spend and heightened marine construction activity. Quest's current forecast is driven by higher diversity (larger number of operators, higher volume of projects from new countries, and expansions of key regions, specifically). Successful exploration activity in frontier regions including pre-salt Angola, East Africa and eastern Canada will launch new development opportunities driving further growth in subsea. Quest also

sees a greater diversity of operators executing projects around the world including established players (Anadarko, Statoil, Chevron, etc.) who are expanding their activities into frontier areas along with relatively new players to the deepwater market (Cobalt, Repsol, Freeport McMoRan) who are diving into both mature and frontier basins. This diversity will provide a strong foundation for future growth.

Innovative technologies will play an important role in green and brownfield subsea production in the future. The increased complexity of the reservoirs and subsequent developments will require increased applications of subsea processing as well as higher standards for equipment reliability and integrity. With the right investments from both the operator community and the supply chain the potential for advanced deepwater production will be significant.

For more information email Caitlin.Traver@questoffshore.com.



Repsol's Evening Cocktail Reception



The MCE Deepwater Development 2014 **Repsol Cocktail Reception** will be held Wednesday, 9 April from 19:30 - 22:00 at The Thyssen-Bornemisza Museum; home to some of the great masters of art history. The museum currently houses two collections from the Thyssen-Bornemisza collector-lineage: the Thyssen-Bornemisza Collection. These

two collections comprise almost one thousand works of art, most of them paintings, with which the museum offers a stroll down the history of European painting, from its beginning in the 13th century to the close of the

20th century. Repsol's evening event offers a private tour of the museum from 19:30 - 20:30, followed by a cocktail reception with heavy hors d'oeuvres. The reception begins at 20:30 with transportation offered from our host hotels, the Pullman and Novotel beginning at 19:00.





Must have Delegate Badge and Invitation with you to enter.

Repsol Cocktail Reception

Wednesday, 9 April 2014 19:30-22:00 Open to Registered Conference Delegates

Event Schedule

Reception Bus Transportation

19:30 Private Tour20:30 Cocktail Reception22:00 End of the Evening

Departure from Pullman & Novotel to Museum: 19:00 19:30 20:00

20:30

Departure from Museum to Pullman & Novotel: 22:00 22:15

Thyssen-Bornemisza Museum:

Palacio de Villahermosa, Paseo del Prado 8 Madrid, 28014 Spain Tel: (+34) 90 276 05 11

Transportation Sponsored by:





Technical Program

<u>Tuesday, April 8, 2014</u>

09:00 - 20:00		Registration & Badge Pick-Up
11:00 - 13:00		Welcome & Opening Session
		 Moderator: David Bloom, Subsea 7 Madrid City Council Welcome: Mr. Pedro María Corral Corral, Head of Tourism, Madrid City Council and President, Madrid Destino Welcome Address: Dr. Howard Cook, Chief Engineer – Subsea & Floating Systems, BP Welcome Address: Mr. Luis Cabra Dueñas, Executive Vice President Exploration and Production, Repsol Mr. Paul Hillegeist, President, Quest Offshore Resources Gustavo Ponce Lopez, Facilities & Production Engineering Manager and Luis Felipe Batalla Toro, BM-C-33 Facilities Engineering Manager, Repsol Sinopec Brasil, "Early Stages of a Pre-salt Ultra-deepwater Field Development in Brazil: An IOC Approach" (ECE) David Turner, Vice President Subsea Production Operations, Global Operations, BP, "BP's Global Subsea Operations Strategy and Integrity Management"
13:00		Exhibition Hall Opens
13:00 - 14:30		Lunch followed by Dessert (Exhibition Hall) Sponsored by
14:30 - 16:00	14:30 - 16:00 Early Afternoon Session	
		k One: Deepwater Surveillance Conditioning & Monitoring
		r: Dave Wilkinson, ExxonMobil hair: David Brookes, BP
		 Daniel Finfer, Applications Development Manager, Silixa Limited, "Intensive Subsea Surveillance System" (ECE) – Co-authored by Chevron Jens Abrahamsen, Business Manager, Naxys - A GE Company and Stian Bentsen, Commercial Manager, GE Measurement & Control, "The Future of Performance and Condition of Subsea Production Systems" Geir Werner Nilsen, Senior Engineer, CPM, FMC Technologies, "Reduced OPEX and Increased Availability of Subsea Systems by Condition and Performance Monitoring" David Saul, Reliability and Technology Lead, BP Global Subsea Hardware, BP, "BP's Subsea Reliability Strategy 10 years On"
	Trac	k Two: <u>Global Pipeline & Riser Strategies</u>
	Chair	r: Laurent Decoret, Technip
		 Alternative Approach to the Design and Integrity Management of Subsea Flowlines" (ECE) Ange Luppi, President (Technical Director), SEAL Engineering, "Innovative Multi-Risers System for Deep Water Field Developments" Olivier Langeard, Project Engineer, ADC & DORIS Engineering, "Anticipating Pipe-in-Pipe Loss of Integrity – Case Study for the Angolan Deepwater Network" (ECE)
16:00 - 17:00		Coffee Break (Exhibition Hall) Sponsored by Seaway Heavy Lifting
17:00 - 18:30		Late Afternoon Session
	Chair	rk One: <mark>Subsea Flow Assurance Challenges & Opportunities</mark> r: Philippe Gerlach, Total hair: John Weedon, CB&I
		 Marta Dueñas Díez, Senior Technologist, Repsol, Technology Centre, "Real-time Multiphase Modeling: Mitigating the Challenge of Slugging by Proactive Flow Assurance Decisions" Yinka Olaniyan, Flow Assurance Engineer, Total, "Investigation of Slug flow in Deep Water Architectures" Ed Grave, Fractionation & Separation Advisor, ExxonMobil Upstream Research Company, "Slugging in a Subsea Compact Separation System" Mehran Moini, Principle Pipeline Engineer, Shell Nigeria Exploration and Production Co, "Deepwater Intelligent Pigging Yields Positive Results at Bonga"
		k Two: Enhanced Well Technologies
		r: Jan van den Akker, OneSubsea hair: Vibor Paravic, CEONA
		 A. de Silvio, M. O'Driscoll, J. Ruiz, M. Massey, Jonathon Miller, Subsea and Technology Development Supervisor; InterMoor, "A Novel Installation Method for Deepwater Well Conductors" Øystein Wærstad, Senior Engineer, Workover Systems, Aker Solutions, "Ultra Deepwater, Sour Service, High Fatigue & Arctic Environments - Pushing the Envelope of Completion/Workover Riser Technology" Vincent Flores, Global Product Line Manager for Vallourec Drilling Products, J. Franchi, S. Granger, A. Vierke, J. Grotherr, Vallourec
		 Vincent Flores, Global Product Line Manager for Vallourec Drilling Products, J. Franchi, S. Granger, A. Vierke, J. Grotherr, Vall "Innovative Heavy Landing System for Ultra-deep Offshore: Extended Slip Crush Resistant Tube, Enhanced Slip Design and Heavy Carrier" (ECE)

	bp		
18:30 - 20:00	Ice Breaker Reception (Exhibition Hall) Hosted By	Session Rooms	
Wednesd	ay, April 9, 2014	Auditorium A	
09:00 - 18:45	Registration & Badge Pick-Up	Rome	
09:00 - 10:00	Continental Breakfast (Exhibition Hall)		
10:00 - 11:30	Early Morning Session		
10.00 11.50	Scene Setting: Meeting Demand: Innovations, Integrity, Investment		
	Moderator: David Bloom, Subsea 7		
	 Mike Davis, Director Global Drilling & Completions, Repsol Kevin Kennelly, VP Facilities Technology, BP, "Project 20k" Frederic Garnaud, R&D Deep Offshore Project Manager, Total Jerry Jackson, General Manager Nigeria, Deepwater, Shell Harke-Jan Meek, Senior Vice President Commercial, Heerema, "Execution of Complex SURF Projects in an Increasingly Challenging Business" 		
11:30 - 12:15	Coffee Break (Exhibition Hall) Sponsored By Seaway Heavy Lifting Y		
12:15 - 13:45	Late Morning Session		
	Track One: Subsea Power Technologies		
	Chair: Mike Read, Teledyne Co-Chair: Dave Wilkinson, ExxonMobil		
	 Truls Normann, First Chief Engineer, Aker Solutions, "Ultra Long Subsea Power Transmission Using Frequence Christian Markussen, Business Manager - Subsea Power & Process, DNV GL, "Current and Future Technologie Offshore and Subsea Facilities" Alan Deighton, Principal Engineer - Cables, Technip Umbilical Systems, "Qualification of Deepwater Power Technology" Sami Spahi, Scientist – New Technology Development and Jeremy Lucas, Senior Reliability Engineer, Telec "Reliability and Life Estimation for Downhole Power Connection Systems" 	es for Powering Umbilical	
	Track Two: Deepwater Heavy-Lift Operations		
Chair: Jan van der Graaf, Heerema Co-Chair: Jan Harald Gramnæs, EMAS AMC			
	 Stefan Schlömilch, Senior Engineer, Analyses and Technology, EMAS AMC, "A New Solution for Safer Overbal Subsea Structures from Offshore Construction Vessels" (ECE) Ryan Epstein, Structural Engineer and Marin Abélanet, Engineering Director – Asia, Australia & New Zealar "Deepwater Heavy-Lift" (ECE) Gordon Wilkinson, Business Development Manager and Sjoerd Meijer, Business Development Manager, Ju "Dynamics of Offshore Lifts Using Monohull Heavy Lift Vessels" Jorn Boesten, Segment Manager Offshore, DSM Dyneema, "Latest in Deepwater Installation Technology" 	id, Subsea 7 ,	
13:45 - 15:00	Lunch followed by Dessert & Coffee (Exhibition Hall) Sponsored By 🧔 Тотас		
15:00 - 16:30	Early Afternoon Session		
	Track One: Global Subsea Enablers		
	 Chair: John Weedon, CB&I Co-Chair: Richard D'Souza, Granherne - KBR Gabriel Beaudonnet, Subsea Engineer, Doris Engineering and Vincent Peyrony, Petroleum Architect Deep "Subsea Station for Chemical Storage and Injection: 2 Case Studies" (ECE) Lars Mehus, Chief Engineer - Umbilicals, Aker Solutions, "Steel Tube Umbilical Challenges for Long Step Out: Deepwaters" Marta Dueñas Díez, Senior Technologist, Repsol, Technology Centre, "Montanazo-Lubina: Successful Deep S Mediterranean Sea" Espen Bostadløkken, Global Head of Sales - Subsea Systems, Siemens AS, "Subsea HPU for Deep Water Dev 	s and Ultra Subsea Tieback in the	
Track Two: Advancements in FPS Design & Life of Unit Performance			
	Chair: John Gallagher, ABS Co-Chair: Christopher Barton, Wood Group Mustang, Inc.		
	 Mireille Franco, Naval Architect, Total, "Floating Units Life Extension Total Approach" Alex Argyros, Naval Architect, DNV GL, "Recent Advances in Modeling Methods and Operational Procedure fo Moorings and Risers" (ECE) Damien Thiery, Offshore Project Engineer, Bureau Veritas, "Converted Tankers into F(P)SO: Life Extension's State (ECE) 	ructural Challenges"	
	David Hua, Manager, Advanced Engineering – Offshore and Maritime, ABS Group, "The Effect of Inspection Asset Life Extension"	i ana Maintenance o	

	16:30 - 17:15	Coffee Break (Exhibition Hall) Sponsored By Seaway Heavy Lifting 🏹
	17:15 - 18:45	Late Afternoon Session
		Track One: Subsea Processing Innovations
		Chair: Dave Wilkinson, ExxonMobil Co-Chair: Jan van den Akker, OneSubsea
 Vibration Measurements During Wet Factory Acceptance Tests" Shaiek Sadia, R&D Project Engineer, Saipem, "The SpoolSep, an Innovative Solution for Subsea Proc Deep-Water / High Pressure Applications" 		 Vibration Measurements During Wet Factory Acceptance Tests" Shaiek Sadia, R&D Project Engineer, Saipem, "The SpoolSep, an Innovative Solution for Subsea Produced Water Separation fo Deep-Water / High Pressure Applications" Arne B. Olsen, Sales Director, Global, OneSubsea, "Subsea High Boost Multiphase Pump System, in Operation at Petrobras'

Ed Grave, Fractionation & Separation Advisor, ExxonMobil Upstream Research Company, "Design and Performance Testing of an Integrated, Subsea Compact Separation System for Deep-water Applications"

Track Two: Well Planning, Safety & Construction

Chair: Leslie Cook, Quest Offshore

Co-Chair: Garry Millard, Sparrows

- Vincent Flores, Global Product Line Manager for Vallourec Drilling Products R. Rodrigues, K. Godeke, A. Thomazic, F. Thebault, RA . Vallourec, "New Generation of High Strength Sour Service Drill Pipe: A Breakthrough Innovation to Address Ultra-Deep and Extended Reach Drilling Challenges Combined with H2S Environments" (ECE)
 - Daniel Godwin Umombe, Petroleum/Mechanical Engineer, Coventry University, "Risk and uncertainty in well planning" (ECE)
 - Guy Boyd, Executive Vice President EMEA, BST Solutions, "A New Paradigm for Serious Event Prevention: Rethinking Safety in the Oil and Gas Industry"
 - Jan van Wijk, Principal Technical Expert Well Control Equipment, Shell; Mel Whitby, Director, Industry and Regulatory Business Affairs – Drilling Systems, Cameron, "Technology - Water Depth Offers the Opportunity to Enhance BOP Control Systems."

Repsol Cocktail Reception at the Thyssen-Bornemisza Museum Hosted By 19:30 - 22:00



for

Thursday, April 10, 2014

- **Registration & Badge Pick-Up** 09:00 - 17:00
- Continental Breakfast (Exhibition Hall) 09.00 - 10.00

Early Morning Session 10:00 - 11:30

Track One: Innovations in Extreme Environment Technologies: High Pressure & Temperature

Chair: Laurent Decoret, Technip

Co-Chair: David Brookes, BP

- Upul Fernando, Principal Engineer Wellstream, GE Oil & Gas, "Development of an Ultra-high Pressure Deep Water Riser/Flowline - Challenges and Progress"
- Brian Skeels, Emerging Technologies Director, FMC Technologies, "HPHT Design Guideline for Subsea Equipment"
- Etienne Girault, Head of Metallic Materials; Eric Kerdiles, Welding Manager; Giulio Fatica, Subsea Field Development Manager; Francois Lirola, R&D SURF Lead; SAIPEM SA, Denise Mahn, R&D Manager - Offshore Line Pipe; Tanja Schmidt, R&D Director Pipe Project Division; Vallourec "Upset Thick End Pipes: Innovative Solution for HPHT Applications and Severe Deep Water Environment" (ECE)

Track Two: Increasing Hydrocarbon Recovery

Chair: Richard D'Souza, Granherne - KBR

Co-Chair: Christopher Barton, Wood Group Mustang, Inc.

- Tatiana Høydal, Draugen Pump Delivery Lead, Norske Shell AS and Fredrik Wadel-Andersen, Sales Manager for Pumps and Subsea Process Systems Europe, **OneSubsea**, "Project Execution of a Complete Subsea Multiphase Pump System for the Draugen Field"
- Ole Edvind Karlsen, Vice President, Global Subsea Operation, Welltec Norway, "Increasing Recovery from Subsea Wells Through Electric Line Riserless Light Well Intervention (RLWI) Methods"
- lain Morrice Business Acquisition Manager, Helix Well Ops Europe & Africa, "Well Intervention Campaign's Across 3 Continents & Q7000 Overview"
- Bjarne Neumann, Director Well Intervention Services, FMCTechnologies, "Deep Water Enabler for Increased Oil Recovery"

Sponsored By Seaway Heavy Lifting Coffee Break (Exhibition Hall) 11:30 - 12:15

	Track One: North Sea Deepwater Case Studies
	Chair: Vibor Paravic, Ceona Co-Chair: Jan van der Graaf, Heerema
	 Alwyn Mcleary, Region Floating Systems TA, BP, "Schiehallion FPSO Mooring Integrity Management" Stian Sande, Project Director, Subsea 7, "New Technologies for Aasta Hansteen Deepwater Pipeline and SCRs" Svein Erik Gregerson, Manager, Subsea Flow Metering, Roxar Flow Measurement/Emerson Process Management, "Wet Gas Metering Challenges in Deep Water Fields – The Shell/Ormen Lange Experience" Hans C. Rentsch, Sr. Engineer Structure and Inspection, GDF SUEZ E&P Norge and Harry J.C. Korst, Research Engineer, TNO Fluid Dynamics, "Flexible Risers Experiences in the Gjøa Platform Gas Export System"
	Track Two: Deepwater Developments: Increasing Demand While Maintaining Quality & Reliability
	Chair: David Bloom, Subsea 7 Co-Chair: Stephane Montbarbon, SBM Offshore
	 Per Arne Nilsen, Head of Subsea Department and Mathieu Lardeux, Subsea Engineer, Total, "Total Subsea Technical Specifications - Alignment with SPS Contractors" Charlie August, Product Manager, Subsea Controls, GE Oil & Gas, "Strategies for On Time Delivery in a Constrained Market" Roy Robinson, Global Contracts - Development and Production; Natalia Gonzalez, Subsea Contracts Manager and Alfredo Salcines, Subsea Engineer, Repsol, "Offshore Megaprojects - Why We Fail and How to Fix it"
13:45 - 15:00	Lunch followed by Dessert & Coffee (Exhibition Hall)
15:00 - 16:30	Closing Session
	Global Natural Gas Developments
	Chair: Jens Madsen, Maersk Co-Chair: Aart Ligterink, Seaway Heavy Lifting
KEYNOTE SPEA	

16:30 - 17:00 Closing Remarks and Awards

Late Morning Session

12:15 - 13:45



This year marks the fifth annual Early Career Engineer (ECE) program for MCE Deepwater Development. The ECE Program began in Amsterdam with the support of BP, as a high-profile platform for the industry's new engineers to share the technologies, projects and ideas they are working on with the decision makers among the deepwater industry. The program has grown since 2010 and this year's ECE participants represent international oil companies, major manufacturers and key members of the supply chain. We welcome all conference delegates to attend the technical program and listen to what these talented engineers have to share; we also want thank BP for their ongoing sponsorship as well as the SUT for their strong support of this growing program.



Advisory Board & Session Chairs

MCEDD 2014 Co-CHAIRMEN



FRANS PIETER LINDEBOOM, CATEGORY MANAGER OFFSHORE RIGS

REPSOL EXPLORATION SA

Currently Repsol Exploration P&C global well construction coordinator, main responsibility in supporting global drilling projects in contracting of drilling rigs and drilling equipment and services.

Previously sales and business development roles at Royal Vopak/ Univar and Supply Chain Management Consulting. MSc Chemical Engineering and Refining Engineering at IFP-school in Paris.



DAVID A. BROOKES, SENIOR CONSULTANT SUBSEA AND FLOATING SYSTEMS (10 YEAR ADVISORY BOARD MEMBER)

BP E&P SUNBURY UK

David Brookes has over 45 years Industry Experience with over 30 years in Offshore Oil and Gas. He started with Esso UK in Refining, after spells in Pipelines and equipment he spent 8 years in international mining engineering...

He joined BP in 1980 and spent time on Subsea and Multiphase Pipelines and Chemical Plants. Since 1990 he has been in Subsea and Floating Systems Engineering Inc Subsea Project Manager for the Foinaven Development WoS and since 1998 in a variety of Senior Leadership roles in Technical and Discipline Engineering in the Central Engineering functions.

In 2006 he became BP's first Chief Engineer for Subsea and Floating Systems and is currently a Senior Advisor.

He is a Chartered Mechanical Engineer, Past President and Honoury Fellow of the SUT.

He was Chairman of the DOT Conference in New Orleans and Co-Chair of the OTC Brazil in 201. He has a number of Industry awards inc Subsea UK 2009 Engineer of the Year Award and SUT Presidents award in 2013.

CHAIRMEN EMERITUS

SHELL



KEITH SMITH, CONSTRUCTION DELIVERY MANAGER – DEEPWATER PROJECTS

Keith Smith is currently the Construction Delivery Manager-Deepwater Projects for Shell, based in Houston, where he is responsible for the construction management of Shell's new deepwater facilities. Keith has been with Shell for 24 years where he has held various roles in the design, fabrication, transportation and installation of offshore fixed and floating systems. He most recently served as Enterprise Category Manager-Offshore Installation where he was responsible for Shell's offshore installation global commercial strategies.

Keith has a Master's degree in Structural Engineering from the University of Texas and a Bachelor's degree in Civil Engineering from Tulane University. He also holds a Master's Certificate in Project Management from George Washington University. He is a Registered Professional Civil Engineer and a Registered Project Management Professional.

Keith was Chairman of the MCEDD Advisory Committee in 2013 and is currently Chairman Emeritus.



JAN VAN DEN AKKER, PRODUCT MANAGER CONTROLS SYSTEMS

ONESUBSEA Jan van den Akker is currently the Product Manager Controls Systems for OneSubsea, based in Celle, Germany, OneSubsea's Centre of Excellence for Production Controls systems. He received a MSc. degree in Mechanical Engineering from the Delft University of Technology. He has over 20 years of experience within the Oil & Gas Industry and was involved in many subsea projects. His job positions included Product Engineer, Project Engineer, Sales Engineer, Project Manager, Manager of Projects and most recently as Project Director on

a project for delivering the world's first All Electric Tree system on the TOTAL K5F Project in the Dutch Sector of the North Sea. During his career he spent time at various locations worldwide. In his current position he is responsible for identifying technology drivers, and implementing new Control Systems products and services within the Subsea industry.



BOB ALLWOOD, CHIEF EXECUTIVE

Dr Bob Allwood graduated from the University of Reading, UK, with a 1st class honours degree in physics and obtained his PhD from Heriot-Watt University, Edinburgh. After working in the field of physics research for some five years at Heriot-Watt University and in industry, he then turned his attention to the problems of working in the underwater environment. Over the coming years he was to work the University's Department of Electrical and Electronic Engineering on ROV development and then as Manager of Engineering in the

University's Institute of Offshore Engineering. He moved to Cranfield University in 1986 as Senior Lecturer in Underwater Technology and undertook research aimed at the improvement of underwater vision. Whilst there, he also developed and presented Masters programmes for the underwater and subsea sectors. As an academic he worked closely with the Society for Underwater Technology, serving on a number of their technical committees and also their Council. He was elected a Fellow of the Society in 1994.

Bob was appointed Chief Executive of the Society for Underwater Technology in December 2009 and was awarded Subsea UK's Lifetime Achievement Award in February 2010.



CHRISTOPHER M. BARTON, SENIOR VICE PRESIDENT - GLOBAL OFFSHORE BUSINESS DEVELOPMENT (5+ YEAR ADVISORY BOARD MEMBER) WOOD GROUP MUSTANG, INC.

Christopher M. Barton is currently Sr. Vice President – Global Offshore Business Development, for Wood Group Mustang, based in Houston where he has responsibility for global business development for WGM's Offshore Business Unit. Chris has over 33 years experience in the upstream oil and gas industry and has also held senior roles with KBR, FloaTEC, Technip, McDermott, ABB and PennWell. Since commencing his career as a Field Engineer with McDermott in Singapore in 1980, Chris has worked in a wide range of roles encompassing Operations, Projects and Business Development in the Americas, Asia Pacific and Middle East. Areas of expertise include executive management, marketing and sales,

business development, engineering and project management, construction site supervision, offshore operations, and field development work. Experience covers all aspects of the upstream industry, including business-to-business publishing, and developing and managing industry events.



Ken Bayne, Project Director – Knarr Field Development (5+ Year Advisory Board Member) **BG GROUP**

Ken is the Project Director for BG Norge's Knarr Field Development, offshore Norway, and is based out of Stavanger. Ken has served as the Deputy Project Director for the Jubilee Development, offshore Ghana and Project Manager for Murphy West Africa's Azurite Project. As a Deeepwater Project Management Consultant his other customers have included Devon Energy Corporation, Ocean Energy Inc., Mariner Energy and ASME.

Ken has previously served as the Deepwater Development Manager at Unocal, Project Manager for Mariner Energy for the Pluto Subsea Development Project - Gulf of Mexico, Process Manager for Shell Deepwater Development Systems in New Orleans, and the Ursa TLP Topsides Manager for Shell Offshore Inc. Ken began his career with Shell in California managing thermal recovery projects. Ken holds a Bachelors Degree in Mechanical Engineering at the University of Illinois, and is a registered Professional Engineer. He is the past Chair of ASME IPTI and is the Chairman Emeritus of the Petroleum Division **Executive Committee.**



DAVID BLOOM, CORPORATE BUSINESS DEVELOPMENT DIRECTOR (10 YEAR ADVISORY BOARD MEMBER) SUBSEA 7

David joined the Offshore Industry in 1975 as Financial Controller with Oceaneering. He progressed to be Financial Director of their UK Company in 1980, before Managing their North Sea Business in 1982. David had Various roles during his 20 years with Oceaneering. From General Manager of the Southern North Sea and West Africa before taking over Business Development responsibility for the same regions:. He left in 1995 to Join Jay Ray McDermott as Business development Manager for UK/Europe when they formed Mcdermott Subsea. In 1998

he joined the Brown Root Organisation as Business Development Manager, responsible for Rockwater, and Brown and Root projects in the North Sea. David has been involved in the growth of Subsea 7 through the integrations of Rockwater and Subsea Offshore: the JV with DSND and lastly the Acergy, Subsea 7 merger. David now holds the position as Corporate Business Development Director responsible for key Company accounts. David brings a great deal of Contractor Subsea knowledge to the industry after his 40 years service.



MICHEL BONTE, VICE PRESIDENT BUSINESS DEVELOPMENT (5+ YEAR ADVISORY BOARD MEMBER)

BLUEWATER ENERGY SERVICES

Mr. Bonte, is Vice President of Business Development with Bluewater Energy Services. Mr. Bonte held management positions with the Heerema Group, Seaway Heavy Lifting and the Glenmore Group prior to joining Bluewater in 1996. He holds a bachelor's degree in Civil Engineering and an MBA. He has over 30 years of experience in the offshore industry.



RICHARD D'SOUZA, VICE PRESIDENT - GRANHERNE GLOBAL OPERATIONS KBR

Richard has an undergraduate degree in Naval Architecture from the Indian Institute of Technology and graduate degrees in Naval Architecture and Civil/Structural Engineering from the University of Michigan and Tulane University. He started his career in the oil patch in 1974 with Friede and Goldman in New Orleans, a consulting firm that pioneered semisubmersible, drillship and jack-up mobile offshore drilling units. He moved to Houston in 1978 with Pace Marine Engineering Systems a marine consulting firm and was Director

of Arctic Technology. He co-founded Omega Marine Engineering in 1985 which engineered the first floating production system in the Gulf of Mexico. Aker Engineering acquired Omega in 1991 and he was Vice President of the Marine group. Under his direction Aker became the predominant deepwater engineering group in the industry and executed most of global deepwater field development and front end subsea and floating production projects involving semi, spar, TLP and FPSO platforms. He joined KBR in 1999 as Vice President of Deepwater Technology and organically built a deepwater engineering group to support execution of EPC projects worldwide. He became Director of Granherne Americas in 2004 and Vice President Granherne Global operations in 2009. Granherne is the global consulting arm of KBR and the premier provider of field development planning, process, safety, marine, subsea flow assurance and integrity management services, with 250 technical professionals in Houston, London and Perth. Richard has authored over 70 technical papers in field development planning, deepwater technology and floating production systems in major offshore conferences and publications. He has actively participated in numerous industry committees, panels and forums including SNAME, SPE, DOT, API, ISO, OMAE, ASME, OTC and DeepStar to promote deepwater technology and development. He has dedicated his career to training the next generation of deepwater technical professionals.



TECHNIP

LAURENT DECORET, VICE PRESIDENT SUBSEA TECHNOLOGIES DEVELOPMENT

Laurent Decoret is a french engineer graduated from Ecole Centrale de Lyon with over 18 years experience in the oil and gas subsea industry. He joined Coflexip in 1994 in Aberdeen, Scotland, as a flexible pipe design engineer, then became the flexible design manager before heading the engineering department of what had by then became Technip UK. During that period he has been involved in many North Sea subsea projects. In 2007, he returned to Paris to coordinate the engineering of the Total E&P Angola Pazflor SURF project, one of

the largest subsea contract to be undertaken by Technip at that time, from the tendering phase up to the final offshore installation campaign in 2011. He currently helds the position of Vice President Subsea Technology Development, based in Technip Innovation & Technology Center beside Paris, in charge of coordinating the subsea R&D effort.

No	Photo

XAVIER DESOUZA, VICE PRESIDENT - EUROPE & EURASIA - GLOBAL BUSINESS DEVELOPMENT UPSTREAM

FOSTER WHEELER



JOHN J. GALLAGHER, ABS EUROPE DIVISION, VICE PRESIDENT OF OFFSHORE

ABS

John J. Gallagher is the ABS Europe Division, Vice President of Offshore, based in London.

Since joining ABS in 1996, Gallagher has worked for both ABS and ABS Group of Companies. In his most recent position, he was responsible for offshore technology and business development for the ABS Europe Division. Prior to this, he was responsible for the Europe/Middle East Division for ABS Consulting, a subsidiary of ABS Group.

Gallagher's extensive industry experience has been gained in a variety of UK and international arenas within the offshore engineering and technical services sectors.

His career started in commercial shipping where he was a marine engineer for six years before joining Schlumberger in 1981. During a 15-year career with Schlumberger, he held a number of technical and senior managerial positions in offshore and onshore well construction and intervention services including extensive experience offshore Brazil, the North Sea and the Middle East.

Gallagher holds a BSc (Hons) in Engineering and various management gualifications including an MBA.



PHILIPPE GERLACH, DEPUTY VICE PRESIDENT FOR TECHNOLOGIES

Philippe Gerlach is graduated from the National Polytechnic Institute of Grenoble. He joined TOTAL E&P in 1981. He held various positions in France, Norway, Abu Dhabi, Camer¬oon, Indonesia in the fields of process & project engineering, commissioning, start-up, production operation, and field development engineering. In 1998 he was responsible of fields development for the Asia-Pacific area. He became in charge of Safety General Inspection for TOTAL Group in 2002. In 2004 he was appointed Technical Director for TOTAL Angola and then in

2005 took the lead of TOTAL E&P process department. Since 2010, he is holding the position of Deputy Vice President for Technologies of TOTAL E&P.



JAN VAN DER GRAAF, VICE PRESIDENT INNOVATION

HEEREMA MARINE CONTRACTORS

Jan van der Graaf graduated in Civil Engineering at the Delft University of Technology in 1984.

He joined Heerema Marine Contractors a year later.

In the first 15 years of his career he worked in the Technology department where he was involved in several Installation projects. He took up the responsibility for the Structural Department designing large north Sea Jacket and topside structures; from 1999 he joined Heerema's initiative to play a role in the civil construction market, involving new ways of tunnel construction. Soon afterwards he took up the responsibility to set up the engineering group for Heerema's pipelay initiative.

Since 2010 Jan is Vice president Innovation and leads the innovation department.



IAN GRAINGER, VICE PRESIDENT COMMERCIAL, SUBSEA

MCDERMOTT

lain Grainger joined McDermott as Vice President, Commercial, Subsea in September 2013, based in London. Prior to joining McDermott lain was Vice President, Strategy for Subsea 7. During his career lain has gained extensive Commercial experience in the oil and gas industry having worked in the UK and USA in commercial management positions in organizations such as Subsea 7, Acergy, Intergraph, Rockwater and McDermott.

lain holds a Bachelor of Science degree in Civil Engineering from Heriot-Watt University, UK and a Masters in Business Administration from Warwick University, UK. Iain is a Chartered Engineer and a Member of the Institute of Marine Engineers (MIMarE).



JAN HARALD GRAMNÆS, SENIOR SPECIALIST ENGINEER (10+ YEAR ADVISORY BOARD MEMBER) **EMAS AMC**

Jan Harald Gramnæs graduated in Naval Architecture/Marine Technology at the Norwegian University of Science and Technology, and has 40 years of experience in the offshore oil and gas industry. He held various positions within Aker Engineering AS and Aker Solutions AS as Project Engineer and Department Manager in the area for design and engineering of MODUs and FPSs. He also worked on several topside transportation and installation projects. In 1995, he moved to Aker Marine Contractors (AMC) Europe region, as Vice President

for engineering. In 2011 EMAS acquired Aker Marine Contractors and formed the subsea construction and installation division EMAS AMC. In his present position he is working on development studies and SURF projects. He is married, has two grown up children and two grandchildren.



TOR ARNE GUNNERØD, SENIOR ADVISOR/MANAGER

STATOIL Tor Arne Gunnerød has a strong background within offshore gas and oil production gained during various field developments and projects, including operation of subsea- and topside facilities.

Present position in Statoil: Manager Field Concept Centre (Early phase).

He attended RDH which was later named the University of Stavanger from 1977 – 1981.



CARL-PETTER HALVORSEN, DIRECTOR BUSINESS DEVELOPMENT STATS GROUP

Carl-Petter Halvorsen has more than 30 years of experience in the subsea part of the Oil & Gas business, all related to the engineering, design, procurement and installation of rigid pipe, flexible pipe and subsea construction work. He started off with Ugland Offshore, which later became DSND, and later became Subsea7. He left them in 1998 and joined Wellstream as General Manager for their Norwegian office. Moved to Newcastle for Wellstream in 2001 as their Business Development Director. When Wellstream was sold in 2004, he left and

moved to Aberdeen setting up his own company –Consultare Ltd. - assisting, Norwegian companies with new and innovative technology to penetrate the international part of the oil and gas market. Main focus is the subsea and pipeline market. 5 years ago he was one of the founders of flexlife Ltd. based in Aberdeen, flexlife was growing to 70 people, he Left flexlife spring 2011. He is also involved in M&A and corporate finance opportunities in Norway. Now supporting Stats Group as Director - Business Development, on the international pipeline arena. He lives in Aberdeen.



ERIC HANSEN, COMMERCIAL VICE PRESIDENT SOUTH EAST ASIA & CHINA (10+ YEAR ADVISORY BOARD MEMBER)

SAIPEM ENGINEERING & CONSTRUCTION BU

Eric Hansen graduated in Mechanical Engineering with Ecole Centrale de Nantes in France and in Petroleum Economics with the French Institute of Petroleum (IFP). He has more than 30 years of experience in the Oil and Gas industry.

Eric Hansen started his career as Field Engineer and R&D Manager for pipeline services companies, mainly in the Middle East, before he joined Coflexip (Technip) as Project Manager in 1989.

Since 1992, he has worked with ETPM as Project Manager in the North Sea before moving to Sales and Marketing, in charge of Nigeria and later of the whole of Africa. In 2000, when ETPM was integrated within Stolt Offshore (renamed Acergy and then merged with Subsea7), Eric Hansen was promoted Commercial Director with Stolt Offshore for the Africa, the Mediterranean Sea and the Caspian Region with overall responsibility for Marketing, Tendering and Sales.

Eric joined SAIPEM in 2006 as Business Development Manager for the South Atlantic Region, based in France, with a special focus on deepwater projects and subsea processing developments.

In 2010-2011, Eric Hansen was Commercial Manager with Saipem America in Houston and is now Commercial Vice President of the Offshore BU for South East Asia & China, based in Singapore.



PHILLIP M. HOWE, GROUP SUBSEA ENGINEERING MANAGER

TULLOW OIL

Mr. Howe has over twenty five years' experience in subsea systems and pipelines with a particular interest in subsea production systems and technology development. He has held senior engineering consultancy and management posts with subsea system suppliers, engineering consultancies, installation contractors and super-major/independent exploration and production companies. His experience covers all aspects of the offshore/subsea project life cycle from feasibility, conceptual and FEED through to execution, operation and

decommissioning.

Mr. Howe currently holds the post of Group Subsea Engineering Manager at Tullow Oil in London and in addition to his corporate role has lead teams in support of major deepwater development projects including Jubilee and TEN (Tweneboa, Enyenra and Ntomme) in the capacity of Subsea Project Manager.



FRITS JANMAAT, COMMERCIAL DIRECTOR (5+ YEAR Advisory BOARD MEMBER)

ALLSEAS GROUP SA

Frits is Vice President Commercial and Strategy for Allseas Group SA based out of Châtel-Saint-Denis in Switzerland. Frits has has served in the Oil and Gas industry since 1975 and has held positions ranging from project engineering, project management, marketing and sales, business development and executive management in the offshore construction segment of the business. He has held engineering and management positions in Leiden and Delft, the Netherlands, London, UK and Houston, USA. Customers

include all Majors, all Independents and a majority of the National Oil and Gas companies.

Frits has previously served on the Advisory Committee of Marine Construction Europe and has been president of the International Marine contractors Association (IMCA) in 2005 and 2006.



ELEN GAARD JOHANSEN, STAFF PROJECT ENGINEER

RWE DEA NORWAY

Elen has a Master of Science in Marine Technology from the Norwegian University of Technology and Science. She has also studied television production. She started her working career in 2004 as a Management Trainee in Aker Solutions Well Services, Stavanger, Norway. After the trainee program she continued in Aker Solutions Subsea, Oslo, Norway, mainly working with tenders. Until autumn 2011 she worked as a Tender Manager in the Tie-In and Structures Department of Aker Solutions Subsea. In September 2011 she started in the RWE

Dea Norway's new established department for Field Development where she is working with RWE Dea Norway's operated licenses in the North Sea.



AART LIGTERINK, BUSINESS DEVELOPMENT DIRECTOR

SEAWAY HEAVY LIFTING

Aart started his career in the oil and gas industry in 1980 with Heerema and thus has over thirty (30) years experience. As a Foundation Engineer he worked on many platform installations worldwide. Consequently, he was involved in the development of, amongst others, hydraulic piling hammers and pile lifting tools in the 80's.

Since 1994, Aart Ligterink worked as Manager Business Acquisition Department for Seaway Heavy Lifting (SHL). He then progressed to be Business Development Director of SHL in 2013. SHL is an independent offshore installation contractor and has installed over 100 platforms in the North Sea and Middle East. The company has gradually grown from a single asset company to a company with two large crane vessels. SHL built the Oleg Strashnov, a DP3 crane vessel with a 5000mt revolving lift capacity, totally suited for deepwater installations.

JON MACHIN, DIRECTOR GEOMARINE LTD. UTEC SURVEY



JENS MADSEN, DIRECTOR BUSINESS DEVELOPMENT (5+ YEAR Advisory Board Member) MAERSK DRILLING

Jens J. Madsen is a naval architect, and has worked in various drilling contractor positions. He has recently been responsible for the expansion of Maersk Drilling into the Caspian Sea and into the deepwater market. Currently he is Director of Business Development involved in defining the next generation rigs for Maersk Drilling.



LARS MANGAL, CHIEF COMMERCIAL OFFICER & SVP RUSSIA, CIS, UK, EU Welltec A/S

Responsible for Welltec's global commercial activities.

Joined Welltec in 2010 and brings with him extensive international oilfield services experience, following 20 years of working for the larg-est oilfield service firm Schlumberger Ltd. Lars has managed multiple major business units in Schlumberger Ltd including establishing new businesses in the subsea domain, most recently he was global Vice President of Well Stimulation Services for Schlumberger. He

provides Welltec with highly relevant new business and market experience. Lars studied in Edinburgh, Scotland and graduated with an Honors degree in Engineering.



BRIAN MCBRIDE, GLOBAL ASSET MANAGER

FMC TECHNOLOGIES

Brian McBride is currently a Global Asset Manager for FMC Technologies based in Dunfermline Scotland, where he has global responsibility for business and relationship associated with a Global Frame Agreement with an International Oil Company. Brian has over 30 years experience in the upstream oil and gas industry and has also held positions in Subsea Offshore Installation, After Market Manager, and Project Manager leading to Project Sales, Sales Managers roles in the Caspian Sea, UK, Canada and Europe.

His current role as a Global Asset Manager is leading a Global Team who is executing projects in multiple FMC locations around the world and the challenges associated with implementing Global standards and processes within different Regions and cultures whilst executing quality projects on time and within budget.



GARRY MILLARD, GROUP BUSINESS DEVELOPMENT DIRECTOR

SPARROWS GROUP

Garry Millard is the Group Business Development Director for the Sparrows Group and has global responsibility for business development, marketing and sales. Garry has worked in the Oil and Gas Industry for over 34 years and was originally an Engineer; he has a MBA from Robert Gordon University in Aberdeen and for the last 16 years has worked in senior project management, commercial, business development and director roles for the likes of Stolt Offshore, Saipem and DOF Subsea. Garry has significant subsea construction,

installation, and inspection, repair and maintenance experience. Garry is a past Chairman of the Pipeline Industry Guild (Aberdeen branch) and a current Aberdeen branch committee member.



STEPHANE MONTBARBON, OFFSHORE CONTRACTING DIRECTOR

SBM OFFSHORE

More than Twenty years of engineering, project management, and sales position in the development of major offshore projects around the world, extensive experience in management and engineering of deepwater submarine pipelines, risers and subsea structures. Areas of expertise include proficiency in delivering technical and commercial proposals, contract negotiation, project management, technical presentation, marketing analysis and business plan preparation.



STIAN ØDEGAARD, VICE PRESIDENT, OPERATIONS SUPPORT AKER SOLUTIONS

Stian is married and has two children. He lives in the Oslo area and works for Aker Solutions AS, in the subsea business area. Stian was born in Oslo in 1977. Stian started his studies in Trondheim at NTNU in 1998 after two years of military service in the Royal Norwegian Engineering Corps. His studies at NTNU were in mechanical engineering and graduated in 2003. His master thesis was written by for NTNU and Kvaerner Oilfield Products A.S (now Aker Solutions). The topic of his pre study and master thesis was on reliability

management for new subsea system developments.

Stian started his career in Kvaerner Oilfield Products in 2003 as test engineer for the Kristin Subsea High Pressure and High Temperature development project for Statoil. He was a part of engineering, assembly and testing as well as the offshore installation campaign. After the follow up on Kristin he continued support for the project in engineering support.

After successful completion of this project and other project involvement he started with tendering from a technical point of view. He completed several tenders as system engineering responsible and held this role for several years.

In 2007 he was tasked to head up the ongoing global initiative for Rapid SolutionTM X-mas trees. At the same time he was asked to start up the system engineering department in Houston and had the opportunity to work for Aker Solutions Inc. for a year.

Upon return to Norway, he returned to the position as system engineering and technical responsible for the new established tendering department in

Aker Subsea, managing the technical aspects of major subsea projects tendering globally. In 2010 he was asked to head up the Subsea Lifecycle Services – Lifecycle Technology department, with focus on supporting our global service organization with engineering support and knowledge sharing. The Lifecycle Technology department is now renamed, Operations Support.



VIBOR PARAVIC, VP TECHNOLOGY

CEONA

Vibor received a Masters in Mechanical Engineering from the University of Houston and the University of Texas. He started his engineering career in the biomedical industry in Houston designing artificial joints. He quickly moved to subsea detailed design with FMC particularly on ultradeep water projects and developments. Following FMC he worked for Saipem in the role off offshore contractor. Most recently he has joined the management team at CEONA Offshore. Vibor has worked in in the Gulf of Mexico, The North Sea, Mediterranean, Far East

and West Africa.



PHILIPPE PERREAU, DIRECTOR – TECHNOLOGIES INNOVATIONS PROJECTS

GEP AFTP

Since 2009, Philippe Perreau has been appointed GEP-AFTP Director, Technologies Innovations Projects and Director of R&D CITEPH Program.

Philippe Perreau, 55, holds a Master of nuclear physics and an engineering industrial diploma from the University Paris-Sud Orsay. He joined IFP in 1982 as research engineer in the Drilling Division where he participated in various projects. In 1990, he joined IFP office in

Singapore as Head of upstream industrial development. In 1992, he returned to the drilling Division, where he was in charge of project "Retrieving data during drilling". In 1998, he was Deputy Commissioner General of CEP & M (Committee of Petroleum and Marine Studies). In 2007, he was appointed Director of IFP SME's Relations Division. In 2006 and 2007, Philippe Perreau was also Chairman of the French section of SPE (Society of Petroleum Engineers).



GEOFF PROUD, CONSULTANT

Over 30 years experience of the subsea sector of the oil business from both Operator & Service Company sides of the fence. Starting my oil career with Shell developing the diverless UMC system for the Northern North Sea before moving to BP for its West of Shetland forerunner. On the Service side worked with Halliburton & GMIS to developed the fashionable Integrated Service Contracts before moving to Expro to complete the conceptual work for the AXIS deepwater intervention system. Have been with E.ON since they became an active Operator in the E& P business in Europe and as they initially were developing gas assets have spent time in the shallow water environment but where

we applied some very cost effective deepwater solutions.



MIKE READ, PRESIDENT

TELEDYNE OIL & GAS

Mike Read is presently the President of Teledyne Oil & Gas, a division of Teledyne Technologies, a group he formed four years ago. Prior to this, Mr. Read was President and CEO of Ocean Design Inc. (ODI), until the successful acquisition by Teledyne in 2009. For the previous twenty years, Mr. Read worked for the Raychem Corporation and ultimately served as the Director of Research and Development of the Telecommunications and Power Division.

Mr. Read has a High Honors degree in Chemistry and Polymer Engineering, holds five patents in product design and has completed executive education programs at the Harvard Business School and Insead Business School in France. Mr. Read serves on the Board of PESA.



Ken Richardson, Executive Vice President of Energy Project Development (5+ Year Advisory Board Member) ABS

Vice President Energy Project Development Kenneth Richardson has been with ABS since 1982. Over his 30-year career, he has held a range of engineering and management positions within ABS and ABS Group and has been active in industry associations, including the American Petroleum Institute (API) and the American Society of Mechanical Engineers (ASME). He earned his BS in Mechanical Engineering and MS in Ocean Engineering from the Stevens Institute of Technology, Hoboken, NJ, and attended the Program for Management Development at

the Harvard Business School.



DOUGLAS STROUD, SENIOR VICE-PRESIDENT, GLOBAL COMMERCIAL

CANYON OFFSHORE

Mr. Stroud is Senior Vice-President, Global Commercial for Canyon Offshore, Inc., a Helix ESG subsidiary (NYSE:HLX) He has worked in the offshore industry since 1976 in a variety of roles including Operations, Sales and Management. He is currently responsible for managing all Commercial Activities and Contracting for Canyon Offshore Global Services and serves as an executive officer of the Corporation. Mr. Stroud is a "Fellow" of the Marine Technology Society (MTS), a past Board member of the Association of Diving Contractors, and

has served as; the Vice-Chairman of the MTS ROV committee, a member of the MTS Manned and Unmanned Submersible Committee, National Ocean Industries Association (NOIA) Technical Policy Committee and served 8 yrs. on the Offshore Technology Conference (OTC) Board of Directors, including 2 yrs. as Vice-Chairman, representing the Marine Technology Society from 2004-2012.



FRANÇOIS THIEBAUD, VICE PRESIDENT OPERATIONS

DORIS ENGINEERING François THIEBAUD has a French civil engineering degree and an MS degree in Ocean Engineering from USC at Los Angeles. François THIEBAUD worked in Houston for 7 years with RJ Brown & Associates, then with Intec Engineering. He joined DORIS in 1992 as pipeline project engineer, then project manager. He was engineering manager for the GIRASSOL URF package and has since been involved in various large size subsea and floater projects. He is now Vice President of Operations with Doris Engineering.



JOHN WEEDON, VICE PRESIDENT SALES OFFSHORE & PIPELINE (5+ YEAR Advisory BOARD MEMBER) CB&I

John Weedon is Vice president Sales Offshore & Pipelines for CB&I PEC based in London. He has been associated with the Oil & Gas Contracting Industry both in the UK and overseas for just over 30 years, and is a past Chairman of the International Oil & Gas Business Advisory Board to the UK Government.



D. R. (DAVE) WILKINSON, SENIOR SUBSEA SYSTEMS CONSULTANT EXXONMOBIL

Dave joined ExxonMobil after completing a Materials Engineering degree at Monash University in Melbourne in 1980. During his 30+year career with ExxonMobil, Dave has developed a wide range of expertise in areas including drilling, construction and major projects, as well as in subsea systems design, installation, startup and operations.

Dave is also an active participant in the various ISO and API subcommittees related to subsea production systems.

Dave, together with his wife and 2 daughters, has lived in both the UK and USA during various assignments with ExxonMobil's Production and Development Companies, and is now resident back in Melbourne with his family.



LUTZ WITTENBERG, DIRECTOR OF DIVISION TECHNOLOGY, SERVICES AND R&D

DNV GL GROUP OIL & GAS

Lutz Wittenberg holds a Master's degree in Naval Architecture from Technical University Hanover. Wittenberg has spent most of his professional career at Germanischer Lloyd where he started as Research Engineer in 1978. Wittenberg experience includes a variety of positions within GL's oil and gas and maritime business areas, being located in Jakarta, Kuala Lumpur, Athens as well as Hamburg. Wittenberg became member of the GL management board in 1996 and held the positions as Director of Projects and Marketing Division in

GL Maritime, until he took on the role as Regional Director for Maritime Services of the Division Mediterranean/Middle East/Black Sea/Africa in 2001. In 2005 Wittenberg was assigned with the global responsibility for the expansion of GL's Industrial Services, comprising technical assurance and advisory services for the Oil and Gas and Renewable industry as major growth areas. This brought intensive engagement in development of a growth strategy, major organisational changes and in several M&A projects undertaken by GL since that time. Since the merger with Noble Denton in 2009, Wittenberg has been Executive Vice President of GL Noble Denton's Region Europe.

After the merger of DNV and GL in September 2013, Lutz Wittenberg took on the role of Director of Division Technology, Services and R&D in DNV GL's Oil & Gas business area. In addition to this position, as of January 2014 he was nominated Chief Technology Officer for the DNV GL Group.



FREDRIK WITTING, PRODUCT MANAGER – SUBSEA MANIFOLDS & CONNECTION SYSTEMS GE OIL & GAS

Fredrik Witting is a mechanical engineer, and has a background from the nuclear industry before joining the oil and gas business in the 1990s. Fredrik has worked in a number of technical and sales related roles with primary focus on subsea production systems, and currently holds the position as Product Manager, Subsea Manifolds and Connection Systems within GE Oil & Gas.

Thank You

Thank you to the following Advisory Board Members for their continuous support and years of service.

5+Years

Christopher Barton Ken Bayne Michel Bonte Frits Janmaat Jens Madsen Ken Richardson John Weedon

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Speaker Biographies



JENS ABRAHAMSEN, BUSINESS MANAGER NAXYS - A GE COMPANY

Jens Abrahamsen is today Business Manager for Naxys which is a company that was acquired by GE Oil & Gas in September 2012. He is co-founder of Naxys, a company that since year 1999 has focused its activity towards subsea hydrocarbon leak detection and vibration/condition monitoring of subsea structures. Jens has an MSc in hydrodynamics and worked after graduation 5 years for Acergy before he joined Geco Defence and worked 5 years with naval surveillance systems. In 2006 Naxys delivered the first permanent installed acoustic leak and vibration monitoring system to the subsea development, Ormen Lange, located at 850 meters water depth 110 km offshore from Norway. In 2010 the system was installed at Total's Pazflor field

outside West Africa after a qualification program showing 25 years expected life cycle without any maintenance requirement.



ALEX ARGYROS, NAVAL ARCHITECT GL NOBLE DENTON

Alex is a Naval Architect working for DNV GL – Oil and Gas, specializing in hydrodynamics, vessel motions and mooring/riser analysis. He obtained his PhD from Cambridge University in truncation methodology for model testing FPUs in ultra-deep water and still has an active role in research and development within GL. He holds a MEng in Civil and Environmental Engineering from Imperial College London and has previously worked for ARUP Structures, tutored Mechanics at Cambridge and has often been visiting teaching assistant at UCL, Bartlett Faculty of the Built Environment.



CHARLIE AUGUST, PRODUCT MANAGER, SUBSEA CONTROLS GE OIL & GAS

Charlie August is Product Manager for Hydraulic & Distribution products for GE Oil & Gas's Subsea Controls business. He is responsible for the strategy and direction of new product development and related internal improvement processes, and has previously lead business initiatives focusing on material cost-out and engineering streamlining, reducing the cycle from design to delivery. He joined GE with a background in engineering consultancy with experience across the defence, aerospace and nuclear industries. Charlie has a first class honours degree in Aerospace Engineering from the University of Bath and is a Chartered Engineer with the IMechE.



GABRIEL BEAUDONNET, SUBSEA ENGINEER

DORIS ENGINEERING

Gabriel Beaudonnet has an Engineering Master Degree from the Ecole Centrale de Nantes and an MSc in Offshore and Ocean Technology from Cranfield University. In 2010, he joined Doris Engineering in France as a subsea engineer and worked on subsea related aspects of deepwater developments in West Africa.



PIERRE-JEAN BIBET, ROTATING EQUIPMENT ENGINEER

Pierre-Jean is a senior rotating equipment Engineer at Total E&P in Paris, France, who has been working in the Rotating Machinery Department of the Technology Division since 2003. His work concentrates on subsea boosting projects, following 18 years of professional experience with pumps, and he has specific expertise in Multiphase Pumps (MPP). Pierre-Jean graduated as a Mechanical Engineer from ESEM (Ecole Superieure de l'Energie et des Materiaux), France in 1986.



ROBIN BIDDLECOMBE, FLOWLINE AND RISER ENGINEER

Robin graduated in 2009 from Imperial College London having studied Civil Engineering, and has been working for BP as a Subsea Engineer for the past 5 years. He has worked in BP's central engineering team, for the Valhall Redevelopment project in Norway, and for the West Nile Delta project in Egypt. His work experience has been primarily focused on pipelines, integrity management and materials selection.



JORN BOESTEN, SEGMENT MANAGER OFFSHORE

DSM DYNEEMA Jorn Boesten graduated from Delft University of Technology in Mechanical Engineering in 1996 (Master) and started working as a process and start up engineer for DSM Stamicarbon (chemical plant start ups), in USA, Taiwan and Colombia. He moved to the business development side at DSM Venturing & Business development in 2000, leading several projects on new materials. He has been with DSM Dyneema since 2005 supporting customers and end users in business development in industrial and offshore applications, with a track record of successfully developing new business. At this moment, he is leading the global business of Dyneema[®] in offshore applications (anchorings and moorings, deepwater installation lines, winch

lines, lifting slings).



ESPEN BOSTADLØKKEN, GLOBAL HEAD OF SALES - SUBSEA SYSTEMS SIEMENS SUBSEA SYSTEMS

Espen Bostadløkken is Head of Sales for Siemens Subsea Systems. He has more than fourteen years experience combined from the energy and oil and gas industry. Before joining Siemens in Oslo, he was the Sales Director at Parker Hannifin's business unit Parker Scanrope AS, where he was responsible for the Northern European region. He has also held various managerial positions with other major industry players such as Aker Solutions and Nexans. Espen started his career in the Swedish power utility giant, Vattenfall. Espen Bostadløkken holds a Master of Science from NTNU in Trondheim (Norges teknisk-naturvitenskapelige universitet/Norwegian University of Science and Technology - Institute of Material Technology and Electrical Chemistry).



GUY BOYD, EXECUTIVE VICE PRESIDENT – EMEA BST Solutions

Guy Boyd leads BST's organisation in EMEA, and also provides professional development and executive leadership coaching to leaders across Europe, the Middle East, Africa and Asia. Guy has over 20 years experience as an executive consultant, working with senior leaders and leadership teams to successfully implement safety-driven culture change initiatives, change management, strategy, business transformation, and other solutions to enhance organizational effectiveness and safety performance. Guy holds a B.Sc. in Business Studies from the Management Centre at the University of Bradford.



CLAUDE CAHUZAC – OFFSHORE PROJECT DIRECTOR, ICHTHYS PROJECT INPEX

Claude Cahuzac has an extensive career specialising in the project management of offshore oil and gas production facilities and deep sea developments, including detailed design, construction and commissioning and marine logistics. Claude joined Total E&P in 1981 and in March 2010 was seconded to INPEX to work on the large-scale Ichthys LNG Project, a joint venture between INPEX CORPORATION and Total E&P Australia. Claude initially joined the Project as the Deputy Director Offshore Technical Division and is now the Ichthys Offshore Project Director. Claude is undertaking the critical role of delivering the Central Processing Facility (CPF), set to be the largest of its type ever built and the first time such a floating facility would be used in

Australian waters. He is also responsible for the Floating Production and Storage Offloading facility (FPSO), all the subsea infrastructure including Subsea Production Systems (SPS) and Umbilical, Riser and Flow lines (URF), as well as the Gas Export Pipeline (GEP) from the Browse Basin to the onshore LNG plant in Darwin. Claude has previously worked on a number of major projects in Cameroun, China, Congo, Europe, Thailand, Indonesia and North Sea in logistics, senior project management and offshore technical roles. Claude graduated from Ecole Nationale Superieure de Nantes in France with a Masters in Hydrodynamics and Naval Architecture.



DR. HOWARD COOK, CHIEF ENGINEER - SUBSEA & FLOATING SYSTEMS

Dr. Howard Cook is the Chief Engineer for Subsea & Floating Systems in BP's Upstream business, based in Sunbury on Thames, UK. Howard has been with BP for 33yr, and almost all of that time in the field of Subsea, Risers and Floating Systems. He has worked in BP's Engineering Centre, and in Projects, Operations, and Technology development. In particular Howard worked on the design of BP's first FPSO - the dynamically positioned SWOPS vessel in 1986. Thereafter he has worked on BP's deepwater production systems for West of Shetland, Angola and in the Gulf of Mexico. He has also worked on projects with other Operators such as Statoil (the BP-Statoil Alliance), Total (Girassol), Shell (Mars) and Woodside (Browse).



MR. PEDRO MARÍA CORRAL CORRAL, HEAD OF TOURISM, MADRID CITY COUNCIL AND PRESIDENT

MADRID DESTINO

Mr. Pedro María Corral Corral, born in San Sebastián in 1963, held various relevant posts in national, regional and finally municipal administration, most notably that of cultural councillor to the prime minister. After serving as Head of Centro District he was appointed in 2013 Head of Arts, Sports and Tourism at the Madrid City Council. He is also President of the municipal company Madrid Destino, responsible for national and international tourist promotion of the City of Madrid. Before involving himself actively in politics he worked as journalist and foreign correspondent from 1986 until 2000. He is also author of historical essays on the Spanish Civil War, as well as of two novels.



MIKE DAVIS, DIRECTOR GLOBAL DRILLING & COMPLETIONS

Mike Davis graduated in 1980 from Texas A&M with a degree in Petroleum Engineering. He worked 26 years with a U.S. independent oil/gas company named Kerr-McGee. Mike's experience includes over 26 years in drilling with increasing responsibility along with jobs in production engineering and business development. He joined Repsol in late 2007 as GOM drilling manager and moved to Director of Global Drilling and Completions in 2011.



ALAN DEIGHTON, PRINCIPAL ENGINEER- CABLES

TECHNIP UMBILICAL SYSTEMS

Alan Deighton is a Principal Engineer at Technip Umbilical Systems based at the R&D Centre in Newcastle. After graduating from Leicester University with a degree in Engineering, he worked for BICC cables and then Draka cables before joining Technip in 1998. He is a Chartered Electrical Engineer and a Member of the Institute of Engineering and Technology.



MARTA DUEÑAS DÍEZ, SENIOR TECHNOLOGIST, REPSOL TECHNOLOGY CENTRE

Marta Dueñas Díez holds a MSc in Chemical Engineering by the University of Valladolid (Spain) and a PhD in Engineering Cybernetics by the Norwegian University of Science and Technology in Trondheim. During the PhD, she worked with dynamic mathematical modeling and process control of a complex particulate process. She has over 10 years' experience in the petroleum industry as a researcher with diverse topics in production technology and subsea technology, first in Norsk Hydro and since 2009 in Repsol. She has worked with fields in different stages of the lifecycle, i.e. both with brownfields and greenfields, and both shallow and deepwater projects.



MARTIJN VAN DRIEL, INTECSEA SOUTH STREAM FEED MANAGER INTECSEA

In the past 15 years Martijn van Driel has worked on almost all record setting offshore pipelines in the region. He has been deeply involved in the design of Blue Stream, followed by work on Medgaz, Galsi, IGI, and Nord Stream. Following successful completion of the project's Feasibility Phase, for the past two years he has been the project manager for the South Stream FEED activities. He holds an MSc from Delft University of Technology.



MR. LUIS CABRA DUEÑAS, EXECUTIVE VICE PRESIDENT EXPLORATION AND PRODUCTION REPSOL

Mr. Luis Cabra Duenas was born in Málaga (Spain) in 1957. He is married and has two sons.

He earned a Ms.Sc. (1979) and Ph.D. (1983) in Chemical Engineering by Complutense University, Madrid. He holds a MBA degree by INSEAD and also high management studies in IMD, Lausanne.

He began his career in Repsol in 1984 as process engineer in La Coruña oil refinery. He occupied several managerial positions in Downstream operations. Before being assigned to his current position in E&P, he has served also in 2009-2010 as Corporate Director of Resources, with company responsibility on areas of Research&Technology, Engineering, Procurement and HSE.

In September 2010 was appointed Executive Director, Development and Production Upstream, with worldwide responsibility on oil&gas development projects and production operations.

Since May 2012, he is Executive Vice President Exploration & Production and member of the Executive Committee of Repsol.



RYAN EPSTEIN, GRADUATE ENGINEER

SUBSEA 7

Ryan commenced work with Subsea 7 in January 2013 after completing a Bachelor of Civil engineering at the University of Western Australia. He is currently working as a design engineer on the Gorgon Heavy Lift & Tie-ins project in Perth Western Australia. Ryan is also a main point of contact for the Technology and Asset Development function for Subsea 7 within the Asia Pacific & Middle East region.



Upul Fernando, Principal Engineer - Wellstream

Upul Fernando is a Mechanical Engineer that graduated from the University of Sri Lanka with First Class Honors. He worked in the academia for 30 years and has published over 30 research papers, 6 patents and several honorary awards. Upul is an expert on engineering design, flexible pipes, materials, fatigue and fracture analysis and FE analysis. He is currently working for GE oil & gas as the Wellstream technology group leader for R&D. He is responsible for new product, technology and material initiatives. He is technical lead for high pressure flexible pipes for ultra-deep water.



DANIEL FINFER, APPLICATIONS DEVELOPMENT MANAGER

SILIXA LIMITED

Daniel Finfer is the Applications Development Manager at Silixa, where his activity is concerned with the design of applications for fibre optic -based distributed acoustic sensing (DAS) technology. His current work spans a broad range of areas; including the subsea, seismic, and borehole monitoring domains. Prior to joining Silixa in 2009, Dr Finfer was a researcher in acoustic imaging at Imperial College London. Daniel is the author of more than 50 scientific papers and patents.



VINCENT FLORES, GLOBAL PRODUCT LINE MANAGER FOR VALLOUREC DRILLING PRODUCTS VALLOUREC

Vincent Flores obtained a BS in Material Sciences and Engineering in 2006 from the National Institute of Applied Sciences (INSA), Lyon, France. He has then worked for a steelmaking group (ArcelorMittal) as Research Engineer in Stainless Steel grades development for 3 years, located both in Brazil and France. In 2009, he joined the Drilling Products division of Vallourec as Marketing & Technical Support Manager for the Middle East region, and located in Dubai, United Arab Emirates. He recently moved to Houston, Texas, to hold a position of Global Product Line Manager for Offshore & Sour Service drilling products within the same company.



MIREILLE FRANCO, NAVAL ARCHITECT

Mireille Franco has a Master Degree in Universidad Politécnica in Madrid as "INGENIERO NAVAL Y OCEANICO". Since 2008, she is working as Naval Architect in Development & Operations Techniques/ Technology/ Structural Department Total and member of the FUIMS for the Follow up of the Assest Integrity Management System for floating units in operation in Angola, Congo, Cameroon, Libya, Nigeria, Argentina and Indonesia. She is, as well, participating in the development and upgrading of TOTAL general specifications and standards and assisting the different project with floating units are involved. Prior joining TOTAL she was working as Naval Architect performing Technical analysis in the sales and marketing Department of Bureau Veritas

Head Office.



FREDERIC GARNAUD, R&D DEEP OFFSHORE PROJECT MANAGER

Frederic GARNAUD began his career in the mining industry before joining Total where he held various positions of drilling, field operations and field development engineer in affiliates and head office including Field Operations Manager for Lacq Gas Plant, Development Manager for Total Gabon, Development Engineering Manager - Continental Europe and Central Asia. Since 2006, Frederic has been deeply involved in technology development: Manager for Advanced Technologies from 2006 to 2008, RD Program Manager for Production and Development Technologies from 2009 to 2013. Since 2013, Frederic in charge of Deep Offshore R&D for Total. Frederic GARNAUD graduated as a mining and petroleum engineer from IFP school. He also

holds a master of mining economics. He serves as OTC program committee for SPE and has organized panels and technology sessions since 2008. Frederic also has numerous international conferences presentations in the area of deep offshore technology, gas valorisation, energy efficiency.



CYRIL GAUMAIN, PROJECT MANAGER

VIBRATEC

Cyril is project manager in the Oil & Gas Department of Vibratec since 2008. His main activity is to assist Operators and Engineering Contractors in anticipating and solving noise and vibration issues in Oil & Gas facilities. The targeted installations are of course the rotating equipment but also the structure and the piping of platform, FPSO, LNG plant or refineries.

Cyril graduated as a Mechanical Engineer from INSA of Lyon (National Institute of Applied Science), France in 1996.



ED GRAVE, FRACTIONATION & SEPARATION ADVISOR EXXONMOBIL UPSTREAM RESEARCH COMPANY

Ed Grave is ExxonMobil's Upstream Fractionation & Separation Advisor at ExxonMobil Upstream Research Company in Houston, TX. He graduated from New Jersey Institute of Technology with a Master of Science in 1982. Ed joined Mobil Research & Development Company in 1990 as a mass transfer specialist. Today, Ed is ExxonMobil's Upstream Subject Matter Expert for Fractionation & Separation. His team is responsible for research, design, and troubleshooting, for all fractionating & separation systems for the entire ExxonMobil Upstream organization.



SVEIN ERIK GREGERSON, MANAGER, SUBSEA FLOW METERING ROXAR FLOW MEASUREMENT/EMERSON PROCESS MANAGEMENT

Svein Erik Gregersen is Manager Subsea Flow Metering at Roxar Flow Measurement, a business unit of Emerson Process Management, and has been in the company for seven years. Prior to heading up the Subsea Flow Metering business, Svein Erik has occupied roles such as Key Account Manager, Sales Manager, Service Engineer, and lastly Commercial Manager for the Roxar Subsea Wetgas Meter. Svein Erik has a master degree in Signal Processing and Communications from The Norwegian University of Science and Technology (NTNU) in Trondheim.



PAUL H. HILLEGEIST, PRESIDENT, COO & CO-FOUNDER

QUEST OFFSHORE RESOURCES, INC.

Paul Hillegeist is President, Chief Operating Officer and Co-Founder of Quest Offshore headquartered in Houston. Quest is a strategic advisory firm to the global oil & gas industry providing Strategic Market Intelligence & Expertise, Strategic Analysis, Marketing Communication and Consultancy Services. Paul has over 23 years of industry experience including14 years as President of Quest which serves over 300 global clients including the world's leading Fortune 50 Companies including Royal Dutch Shell, ExxonMobil, GE Oil & Gas, Total, BP and Chevron. Prior to 1999, Paul served at Global Industries (now Technip) for four years as Manager Corporate Development supporting the CEO, Executive Management and the Board. Paul started his oil & gas

career at Offshore Data Services (now IHS) as Market Analyst and served for five years. Paul actively leads Quest's Research & Data Division, global Business Development & Acquisition activities as well as their growing Consulting Practice which advises major integrated oil companies (IOC's), oilfield service companies, industrial conglomerates, notable industry associations and leading private equity & global financial firms. In 2012 Paul co-authored the SUBSEA BLUEBOOK "Subsea Acceleration, Fathoming New Technologies" with sell side firm CLSA and conducted a road-show-tour in North America and Western Europe engaging with and providing expert advice to the buy side energy space including leading global hedge funds, institutional and private equity investors such as BlackRock and T. Rowe Price. A Super-PAC hired Paul in 2012 to engage & advise one U.S. Presidential Candidate on North American energy policy and key offshore oil & gas industry issues following Super Tuesday of the Republican primary. Mr. Hillegeist regularly serves as an invited speaker at international industry events as well as Corporate Board Meetings and has testified both as an expert witness in addition to engaging with senior U.S. Government officials and major industry Lobbyist's on regulatory, energy and related economic issues. Paul is a 1988 graduate from The University of Texas at Austin with a Bachelors of Arts Degree in Economics where he was an active member and officer of the Beta Kappa (BK) business fraternity.



TATIANA HOEYDAL, DRAUGEN PUMP DELIVERY LEAD

Tatiana Hoeydal is Sr.Subsea Hardware engineer working for Shell since 2011, in a role of Draugen Pump Delivery lead. Received M.Sc. Mech. Engineering degree in Dnepropertovsk State University, Ukraine. Before joining Shell, Tatiana worked as Sr. Project manager for Keppel Norway. Tatiana has project management, engineering and research experience with various international companies.



David Hua, Manager, Advanced Engineering – Offshore and Maritime ABS Group

Mr. Hua has a Master's degree in Naval Architecture and Marine Engineering from the University of Michigan and a Master's degree in Computer Science from James Madison University. His experience includes designs of various commercial and naval vessels, leading the development of a Rapid Response Damage Assessment system by conducting engineering analyses, inspections, and risk assessments for the first FPSO in the Gulf of Mexico in U.S., developing In-Service Inspection Plans, including RBI, for various offshore assets, such as SPARs, semi-submersibles, and TLPs, and leading life extension projects for ship-shaped and non-ship-shaped offshore facilities.



JERRY JACKSON, GENERAL MANAGER - SNEPCO DEEPWATER PROJECTS SHELL NIGERIA EXPLORATION AND PRODUCTION CO.

Jerry Jackson is General Manager Deepwater Projects Nigeria in Shell Nigeria Exploration and Production Company. He has responsibility for Nigeria related deepwater asset support, project delivery, and engineering. He has enjoyed a 32-year career with Shell with several project and management roles linked to deepwater development. Jerry has a B.S. Civil Engineering from North Dakota State University.



OLE EDVIND KARLSEN, VICE PRESIDENT, GLOBAL SUBSEA OPERATION WELLTEC NORWAY

Ole "Eddie" Karlsen joined Welltec in 2005 and in September 2011 he advanced to Vice President, Global Subsea Operation with responsibility for Welltec's RLWI and Global Subsea Operation services. After more than 20 years in the offshore industry on the Norwegian continental shelf, Eddie's broad experience ranges from field engineer, consulting, testing and qualification, to business development. Eddie has a strong Interest in minimizing well intervention costs by using e-line tractor conveyed robotic solutions. He is an SPE member, and has presented multiple papers and case studies on applications of this technology at conferences in Europe, USA, Brazil and Asia



DR. KEVIN JAMES KENNELLY, VP OF BP'S FACILITIES TECHNOLOGY FLAGSHIP

BP Kevin Kennelley is the Vice President of Technology for BP's Facilities Technology Flagship. In this position he provides support, direction and leadership in the area of technology to all of BP's E&P major projects and operations around the world. Over the past 32 years Kevin has held leadership assignments in Projects, Engineering, Research and Development and Operations in locations that have included Texas, Alaska, Indonesia, Malaysia, Azerbaijan, and London. His professional qualifications include BS, MS and PhD degrees from The University of Oklahoma, Registered Professional Engineer in the State of Texas and Fellow of the Institute of Engineering and Technology in the UK. Dr. Kennelley is the author/editor of two books, forty

published technical papers and holds several U.S. patents. He is the recipient of the D. Grant Mickle Award from The National Research Council/National Academy of Sciences/National Academy of Engineering and the A.B. Campbell award from the National Association of Corrosion Engineers.



HARRY J.C. KORST, RESEARCH ENGINEER

TNO FLUID DYNAMICS

both Harry Korst is a Research Engineer specialized in fluid dynamics in pipe systems. He has a background in mechanic engineering and has 23 years of experience in the oil and gas industry, working on design and troubleshooting projects with their focus often on mechanic integrity of pipe systems.



OLIVIER LANGEARD, PROJECT ENGINEER

ADC & DORIS Engineering

Olivier LANGEARD is a Project Engineer at DORIS Engineering. He was first involved on project in West Africa dealing with hydrodynamics and Mooring of floating units. He joined the ADC consortium in 2012 to address deepwater Pipe-in-Pipe repair.



FRANÇOIS LIROLA, R&D SURF LEAD SAIPEM SA

François LIROLA has a master of science in hydrodynamics and mechanical engineering. He has been working for 4 years in the Innovation and Technology Development department at SAIPEM and is currently in charge of SURF developments. He has been involved in the design and qualification of innovative riser concept as well as the development of new technologies for flowlines and risers with a strong bias toward fatigue issues.



GUSTAVO PONCE LOPEZ, FACILITIES & PRODUCTION ENGINEERING MANAGER

REPSOL SINOPEC BRASIL

Gustavo Ponce Lopez has 24 years of experience in Process Plant Engineering, oil and gas (upstream and downstream), refining, chemical, petrochemical and polymers projects both in operator and engineering contractor side. He has knowledge and experience in all aspects of Offshore and Onshore Surface Facilities developments from feasibility studies, concept selection, FEED to detail design. His areas of expertise include: Project management, multidisciplinary team coordination and process engineering.



ANGE LUPPI, PRESIDENT (TECHNICAL DIRECTOR)

SEAL ENGINEERING

Ange holds an MSc in Mechanical & Structural Engineering with experience acquired over the last 37 years in a wide range of projects, technical, operational and senior management roles within the offshore oil & gas contracting industry in different regions such as the North Sea, West Africa, North & South America, Brazil, Middle East and Far East.



CHRISTIAN MARKUSSEN, BUSINESS MANAGER - SUBSEA POWER & PROCESS DNV GL

Mr. Christian MARKUSSEN – (46) holds a Master of Science in Mechanical Engineering from South Dakota School of Mines and Technology, USA. Markussen's current position is Business Manager within Subsea Power & Process for DNV GL in Oslo. Previously Markussen has held the position of Head of Section for DNV's Subsea Section and also Service Director for DNV's service line "Technology Qualification". Mr. Markussen was stationed in Houston, USA from 2001 to 2006 where he established and developed the Technology Qualification group working with the international oil companies and their suppliers.

Markussen has been with DNV since 1995 and has primarily worked with the oil & gas industry with technology qualification and verification of subsea systems, drilling and well, FPSOs and more recently with subsea processing. He has worked with Finite Element analysis, laboratory testing, RAM analysis (Reliability, Availability and Maintainability) and Risk and Safety studies. He has also experience as the HSE Manager for StatoilHydro's subsea tie-back Vega.



HARKE JAN MEEK, SENIOR VICE PRESIDENT, COMMERCIAL

HEEREMA MARINE CONTRACTORS

Harke Jan was appointed Senior Vice President Commercial in October 2013 after having started his career with Heerema Marine Contractors in commercial and business development roles for SURF projects. Before joining HMC in April 2012, he worked in Business Development functions for SBM Offshore in Monaco & Jakarta and on LNG projects for Shell in The Hague & Houston. Harke Jan holds an MSc degree in Offshore Engineering from Delft University of Technology and an MBA from the University of Texas.



LARS MEHUS, CHIEF ENGINEER - UMBILICALS AKER SOLUTIONS

Lars Mehus is a Chief Engineer at Aker Solutions Umbilicals and is responsible for the Steel Tube Umbilical product. He has been working with in the Kvaerner and Aker Solutions company since 1990, and he has been working with Steel Tube Umbilicals since 1995. His main focus in the last period has been umbilical technology, and previously held positions within engineering and project management



JONATHON MILLER, SUBSEA & TECHNOLOGY DEVELOPMENT SUPERVISOR INTERMOOR

Jonathon Miller has 10 years industry experience in design and implementation of novel solutions. Currently serving as InterMoor's Inc.'s Subsea & Technology Development Supervisor, Jon has burgeoning R&D experience developing offshore O & G applications. Since October 2008, he has supported InterMoor's delivery of Mooring, Foundation, and Subsea solutions. His prior experiences include application support and development of synthetic fiber ropes for new applications at Samson (co-invention on 3 US patents), and supervising machine operators at a non-durable goods factory for Darigold, Inc. Jon earned his BSME from the University of Idaho, and is a licensed PE in Louisiana, USA.



MEHRAN MOINI, PRINCIPLE PIPELINE ENGINEER SHELL NIGERIA EXPLORATION AND PRODUCTION CO.

Mehran Moini has over 25 years of working experience in operations support, maintenance and asset integrity with major oil and gas companies. He is currently a principal pipeline engineer with SNEPCo in Nigeria, specializing in deepwater pipeline operations and intervention. His previous assignments have taken him to the North Sea, Libya, Syria and Brunei. Mehran holds a B.Sc. in Civil Engineering and a Post Graduate Diploma in Offshore Engineering. Outside of work Mehran enjoys doing community support activities such as teaching English, participating in HIV/Aids awareness events and running wellness and resilience training sessions.



IAIN MORRICE – BUSINESS ACQUISITION MANAGER

HELIX WELL OPS EUROPE & AFRICA

lain Morrice is a Business Development professional with over 18 years domestic and international experience within the Energy industry. He has worked in both operational and business development roles in the North Sea, US, Africa, Asia & Australia. During his career to date, he has work for Andergauge Drilling Systems (now NOV – a Directional Drilling Services Company); Rushmore Reviews (an independent benchmarking company servicing the global E&P Operators) as well as spending time working for a Learning & Development business within the Energy industry. Iain first joined Helix Well Ops – a business unit of Helix Energy Solutions, as the Regional Sales & Marketing Manager in 2004. After a short period of working for an Aberdeen, UK based

Investment Group; he returned to Helix Well Ops in 2010 and is currently in the role of Business Acquisition Manager for the Europe, Canada & Africa Region.



BJARNE NEUMANN, DIRECTOR WELL INTERVENTION SERVICES

Bjarne Neumann is the Director of FMC's Well Intervention Services – a group of 170 employees within FMC that develops and operates specialized well intervention systems. Bjarne has more than 20 years of experience in the oil industry from various positions on and offshore. Most of his career has been dedicated to technical development and operational tasks related to well access systems, whereas well design, well control and operational efficiency have been key topics. Leading the newly established intervention group, Bjarne continues his career to support business clients in their struggle to meet their targets for Increased Oil Recovery from subsea wells.



GEIR WERNER NILSEN, SENIOR ENGINEER, CPM

FMC TECHNOLOGIES

Geir Werner Nilsen is a Master of Science in Process Automation from Telemark University College (1998) and PhD in Engineering Cybernetics from Norwegian University of Science and Technology (2006). He has more than 15 years working experience from positions within technology and management in various technology companies. He currently works on development of Condition and Performance Monitoring solutions for subsea production systems and subsea process systems.



PER ARNE NILSEN, HEAD OF SUBSEA DEPARTMENT

TOTAL Per Arne Nilsen has worked with Subsea systems and technology for more than 30 years. He has an international background having managed a number of subsea developments globally (Norway, Canada, West Africa and Australia). In addition to managing Subsea Production Systems he has been portfolio manager for offshore pipeline projects in the North Sea. He has worked most of his career for operators (bp/Amoco, Norsk Hydro/Statoil, Petro-Canada/ Suncor, Woodside and TOTAL) involved in technology management, project management and asset management. He has also worked for some years as project director in Singapore for one of the major subsea contractors. In TOTAL he has managed large Subsea Packages and he has been responsible for

Subsea R&D activities. He is now Head of the Subsea Technology Department in Paris, France.



TRULS NORMANN, FIRST CHIEF ENGINEER AKER SOLUTIONS

Truls Normann holds an MSc in Electrical Power Engineering combined with Industrial Economics and Technology Management, from NTNU (Norwegian University of Science and Technology), 1999. He specialized within subsea long distance power distribution for deep waters as part of his thesis. He has 15 years of relevant experience mainly within the Subsea division of Aker Solutions, and has focused on development of power umbilicals, flowline electrical heating and power components and systems for subsea compression and pumping. This includes responsibility for development of Subsea VSDs, transformers and circuit breakers in the Ormen Lange subsea Compression Pilot project, as well as managing the ongoing HV power

system deliveries for the Åsgard Subsea Compression Project. He currently holds the position as First Chief Engineer and head of the Subsea High Voltage Power Products and Technology department.



YINKA OLANIYAN, FLOW ASSURANCE ENGINEER

Yinka Olaniyan is a flow assurance engineer with experience in process design and deepwater field operations. Having graduated with a B. Eng in Chemical engineering, his career with TOTAL has entailed a position on a giant FPSO deepwater development in West Africa. As a result of this experience, he has developed interest in slug flow and continues to study this phenomenon in his current working role.



ARNE B. OLSEN, SALES DIRECTOR, GLOBAL

Arne Olsen graduated from the South Dakota School of Mines & Technology in 1983 as a mechanical engineer. He joined Framo Engineering, now OneSubsea Processing in 1985 as a subsea engineer. He worked as Department Manager for the Subsea Department from 1994 to 2000 and thereafter joined the Sales Department today as Global Sales Director for Pumps & Subsea Process Systems.

VINCER Total Vincer affiliat develo

VINCENT PEYRONY, PETROLEUM ARCHITECT DEEP OFFSHORE

Vincent Peyrony joined Total in 1992 after graduating as Engineer at French Institute of Petroleum (IFP). He spent 10 years for drilling & completion in affiliates (Angola, Cabinda, Qatar, North sea), then 5 years for Well performance and R&D in Head quarters (France); then 3 years in Libya for business development and finally 3 years in PARIS (HQ) as Deep offshore petroleum architect in new technology.



LEAH REGEL, FLOWLINES AND RISERS ENGINEER

Leah Regel studied Electronic Engineering at the University of Durham and joined BP in 2009 as part of their graduate scheme. She first worked as a Subsea Engineer on the Devenick project in the North Sea where her work focused on assisting in the delivery of the subsea trees and controls systems. In 2011 she moved to an operations role as a Riser and Flowline Engineer for the Angola Engineering team based in London. She has worked on a range of areas including the use of riser monitoring data for ensuring integrity.



HANS C. RENTSCH, SR. ENGINEER STRUCTURE AND INSPECTION

GDF SUEZ E&P Norge

Hans C. Rentsch is a naval architect from the Norwegian University of Science and Technology, working with floater and risers for GDF SUEZ EP Norge. He has 28 years experience in the industry, multidiscipline within inspection and modification and construction projects.



ROY ROBINSON, GLOBAL CONTRACTS - DEVELOPMENT AND PRODUCTION

Roy Robinson is originally from New York and has 23 years experience offshore development projects, 14 years with JP Kenny consulting to many of the majors, and 9 years with Repsol. He holds a Bachelor of Science in Marine Engineering from Texas A&M University, and an MBA from Herriot-Watt. His technical areas of expertise include subsea pipeline design, offshore construction and installation, cost estimation and risk analysis. He recently moved from Project Management to Purchasing within Repsol and is involved in the shift to a Category Management model within Repsol.



STIAN SANDE, PROJECT DIRECTOR

Stian Sande is currently employed as a Project Director with Subsea 7. He holds a Degree in Mechanical Engineering, Offshore Construction and joined Subsea 7 as a project engineer in 2002. Stian has held various engineering and management positions in Subsea 7 and since 2010 he has managed various pipelay and field development projects offshore Norway and is currently Project Director for the Aasta Hansteen field development and Gullfaks Subsea Separation Projects.



DAVID SAUL, RELIABILITY AND TECHNOLOGY LEAD, BP GLOBAL SUBSEA HARDWARE

David is a Chartered Engineer with 25 years' experience working in the Oil and Gas Industry. He joined BP in 2005, before this he worked in subsea controls for Aker and GE. In addition he has presented undergraduate and postgraduate university courses in Engineering and Knowledge Management. He is a member of the engineering advisory panel for Brunel University.

His first role in BP was to lead BP's AUV development programme before moving on to the Shah Deniz stage 2 project, where he managed the subsea technology qualification programme.

David's current role is the Reliability and Technology Lead for the BP Global Subsea Hardware team. In this role he is accountable for all technology qualification and application of BP's subsea reliability strategy in GSH. GSH manage and execute delivery of all Subsea Production System hardware (controls / trees / wellheads / umbilicals / manifolds) to BP major projects.

In September 2013 David was appointed as a BP Advisor on subsea system reliability. BP's Technical Advisor Programme is a group wide programme that supports outstanding experts, giving them wider responsibilities and providing them with the time and authority to carry out these activities, thus enabling them to impact the business in a more powerful way. David lives in Buckinghamshire UK and he is married with one daughter, 2 cats and 3 chickens.



SADIA SHAIEK, R&D PROJECT ENGINEER

Sadia SHAIEK is a graduate engineer from "Conservatoire des Arts et Métiers" in Paris and has 16 years of experience in the Oil and Gas industry. Since 2007, she has been working with Saipem R&D Department near Paris as Project Engineer on subsea processing developments and especially on seabed separation systems, flow assurance, field architecture, qualification and testing of innovative systems. Prior to joining Saipem, Sadia was mainly involved in experimental tests of multiphase flows in porous media at reservoir conditions for improving Enhanced Oil Recovery (EOR) processes, well productivity and injectivity with the IFPEN (French Institute of Petroleum).



STEFAN SCHLÖMILCH, SENIOR ENGINEER, ANALYSES AND TECHNOLOGY EMAS AMC

Stefan Schlömilch graduated from NTNU in 2008 with a MSC in Marine Technology and specialization in Marine Hydrodynamics. He has been with EMAS AMC since 2008 working with analysis and offshore work on a variety of projects. Mainly within powercables, mooring systems installation, riser replacement, tie-in and structure installation Stefan is Senior Engineer for the Analysis and Technology department has served as Analysis lead in Fram H and Smørbukk projects.



BRIAN SKEELS, EMERGING TECHNOLOGIES DIRECTOR

FMC TECHNOLOGIES, INC.

Brian has 35 years experience in subsea completion and pipeline design and installation. He spent five years with Exxon Production Research Company working on Exxon's famous SPS and UMC subsea systems, and the rest with FMC Technologies. As FMC's Emerging Technology Director, he serves as a technical subsea advisor and strategic planning specialist for frontier technologies and new business opportunities. His efforts delve into HPHT, riserless light well intervention, ROV and remote robotics technology, and subsea spill containment programs for FMC Technologies, Schilling Robotics and FMC Technologies Offshore. Brian has been part of API's Upstream Standards for 30 years and currently serves on API Subcommittee 17 executive

committee. He serves as task group chairman for 17G on subsea intervention systems, co-chair for 17D on subsea tree and wellhead equipment, and chairs 17TR8 for HPHT equipment design. Brian is also on several Industry and Professional Society conference program boards. Brian graduated from Cornell University with a B.S. in Mechanical Engineering and from the University of Rhode Island with a M.S. in Ocean Engineering.



SAMI SPAHI, SCIENTIST - NEW TECHNOLOGY DEVELOPMENT

TELEDYNE OIL AND GAS

Sami Spahi is currently an NPD Scientist at Teledyne Oil and Gas and is specialized in research and development of new subsea power connector technologies and systems. He received a Ph.D. in Industrial Engineering in 2008, a Masters in Manufacturing Engineering in 2006 from University of Central Florida (UCF), and a Bachelor in Mechanical Engineering from The American University in Cairo in 1999. Dr. Spahi worked at ScooterBug Inc., as a Product Engineering Manager specializing in mobility solutions. Prior, Dr. Spahi held a position of an Assistant Professor and director of the Rapid Prototyping and Reverse Engineering Laboratories at UCF. His research interests are in mass customization (MC) systems, rapid manufacturing,

prototyping, and product development.

BUREAU VERITAS



DAMIEN THIERY, OFFSHORE PROJECT ENGINEER

Damien Thiery is a Structural Naval Engineer, based in Bureau Veritas Head Office in Paris, he works for different types of floating units, with a particular focus on FPSO units. His focus area has mainly been in converted F(P)SO, dealing with corrosion and fatigue issues. He is now undertaking integrity management for life extension projects with a particular focus in strength and fatigue analysis of offshore floating assets.



THOMAS BJØRN THOMMESEN, VICE PRESIDENT /PROJECT DIRECTOR AASTA HANSTEEN FACILITIES STATOIL

Thomas Bjorn Thommesen has over thirty years' experience in the offshore industry. Prior to Statoil, he worked for Norsk Hydro, Saga Petroleum and Acergy. In the past he has been Director of the Statoil Project Academy, Project Manager in Shtokman Development in Russia; for Statoil tie-in portfolio projects and for Sonangol P&P in Angola and also project manager and line manager in Norsk Hydro and Saga Petroleum. Thomas received his Master of Science Mechanical Engineering from the Norwegian Institute of Technology and his Master of Technology Management from MIT.



DAVID TURNER, VICE PRESIDENT, SUBSEA PRODUCTION OPERATIONS, GLOBAL OPERATIONS

Dave is the VP Subsea Production Operations, with global functional responsibility for the performance of the subsea infrastructure, providing safe operations, availability and risk mitigation - and for building the subsea operations organizational capacity. He was the GoM Subsea Operations Manager, based in Houston 2007 - 2011 and prior to that was based in the North Sea, where he developed and managed the subsea organization. In 2004, Dave became the overall Manager of BP's North Sea Subsea Business, supporting the cross-asset portfolio of projects and operating Performance Units. This included responsibility for the UK's first operational deepwater subsea production business West of Shetland, in the Foinaven and Schiehallion fields.

In his early career he held posts in Operations and Development Planning which lead into the emerging subsea Projects and Operations business, including structural and pipeline repair programs. He was the Project Engineer for BP's first subsea production flexible tie-back. His emergence into subsea engineering came from a Project Engineering role implementing underwater repairs to the 500 mboepd Forties field structures, requiring hyperbaric, cofferdam and grouted brace repairs. In 2005 he was awarded the Society of Underwater Technology "David Partridge Award for Technology Achievement" and in 2007, he received from the UK Industry body, Subsea UK, their "Individual Achievement Award".



DANIEL GODWIN UMOMBE, PETROLEUM/MECHANICAL ENGINEER

CONVETRY UNIVERSITY

Daniel Godwin Umombe received his first degree in Mechanical Engineering from Riverstate University of Science and Technology in 2007 graduating in the top 6% of his class and Postgraduate diploma in Petroleum Technology and Project Development from Institute of Petroleum Studies, University of Portharcourt. He has recently concluded the master program in Petroleum and Environment from Coventry University. He has had one (1) year training in Cementing, Drilling, Reservoir engineering, Mud engineering and Project Management with the Institute of Petroleum Studies in collaboration with Institute of Petroleum French IFP. He has worked in Nigerian Gas Company and Nigerian Port Authority for 2 years and has 1 year experience as a

Research Assistant to Dr E.I Etela in the Department of Mechanical Engineering Rivers State University of Science and Technology. He has experience in Plant Operations and Manitenance, Supervising Pigging Exercise, Supervise Preventive Maintenance in Oil and Gas well/Plant, Planning of oil and gas well and troubleshooting fault generator plant. Currently he works with Spectrum Arcadia in Artersone as a Quality Engineer; however he looks forward joining the Exploration and production company as soon as possible.



FREDRIK WADEL-ANDERSEN M.Sc, SALES MANAGER FOR PUMPS AND SUBSEA PROCESS SYSTEMS EUROPE

ONESUBSEA PROCESSING

Fredrik Wadel-Andersen obtained a B.S. in Mechnical Engineering from Bergen College and a M.S in Industrial Engineering from South Dakota School of Mines and Technology. He currently serves as Area Sales Manager for Pumps and Subsea Process Systems Europe for OneSubsea Processing. He has been with Framo engineering/OneSubsea processing for 8 years as Project manager and Sales Manager. He has been project manager for the Gullfaks Wet Gas Compression system during the C study, FEED study and ITT as well as Project and Sales Manager for the Shell Draugen Multiphase boosting system. His career also includes serving as Project Manager in the aviation industry.



ØYSTEIN WÆRSTAD, SENIOR ENGINEER, WORKOVER SYSTEMS Aker Soltuions

Øystein Wærstad is a Workover & Well Intervention Specialist with focus on the riser systems. He is involved in project execution, operation and development of new workover riser technology and systems improvements.



MEL WHITBY, DIRECTOR, INDUSTRY AND REGULATORY BUSINESS AFFAIRS – DRILLING SYSTEMS CAMERON

Mel Whitby has over 45 years engineering experience, including 34 years experience in the oilfield industry, with extensive knowledge in research and development, engineering, and operations management. Mel is currently working for Cameron International, a leading provider of flow equipment products, systems and services, as the Director of Industry and Regulatory Business Affairs for their Drilling Systems division. In his role, Mel is also responsible for research and development engineering, as well as engineering management for major Drilling Systems projects.

To date, Mel has been named as an inventor on 16 different innovative drilling systems equipment US Patents and multiple International Patents. Mel led the engineering initiative in designing Cameron's next generation EVO BOP System; which led Cameron to be named a finalist for the 2009 World Oil Award for the 20K High Pressure BOP, and Mel to be a co-recipient of the 2009 Cameron Inventor of the Year Award.

Mel holds memberships with the Society of Petroleum Engineers (SPE), International Association of Drilling Contractors (IADC), and American Petroleum Institute (API) where he is currently the Sub-Committee Vice-chairman for their Drill Through Equipment section (SC16). Through his many years of experience, Mel has unquestionably earned his reputation as a recognized industry expert in Drilling Systems and BOP Operations.



JAN VAN WIJK, PRINCIPAL TECHNICAL EXPERT WELL CONTROL EQUIPMENT

Jan van Wijk obtained a Bachelors of Mechanical Engineering at Nautical College Noorderhaaks in the Netherlands and joined Shell in 1990, after having been an officer in the Royal Marines.

He became a European Charted engineer in 1994 and worked in various operational roles in well engineering, on site as well as in the office, in the Netherlands, the UK, Sakhalin and Libya.

In 2002 he became the Technical expertise Holder for rigs and was appointed Principal Technical Expert for Well Control Equipment in 2011.

He is Chairmen of the API-16AR standard committee (Remanufacturing of Drill Through Equipment) and actively works with manufacturers of well control equipment on further improvements of the various product lines.



GORDON WILKINSON, BUSINESS DEVELOPMENT MANAGER

JUMBO Gordon began his offshore working career in 1979 as a deck-hand on a seismic survey vessel during the summer of his high school junior year. After graduating from high school he continued to work offshore in the marine surveying sector. He earned two degrees from Texas A & M University in College Station, Texas; a Bachelor of Science and Masters in Engineering - both in Ocean Engineering. After graduating from Texas A & M University in 1989 he began his professional career in offshore construction with McDermott. During his 25+ years of professional work he has worked for several marine contractors including Stolt Offshore (now SS7), Helix, Veolia, and Global Industries. He joined Jumbo Offshore in 2012. Gordon has worked as

a Structural and Pipeline Design Engineering, Project Manager, Project Director, Construction and Engineering Manager, and Business Development Manager for the offshore construction sector. His primary focus has been on deepwater developments with emphasis on pipeline and subsea construction, although his experience includes several shallow water pipeline projects with shore approaches.

In 2005, Gordon earned his Masters in Business Administration (MBA) from the University of Houston - Bauer College of Business. Although Gordon and his family have lived primarily in the Houston area, they have also lived in New Orleans, Dubai, and New Hampshire. Gordon is a native Houstonian and currently lives in Katy, Texas. Gordon and his wife Lisa have been married for 30 years this August, and they have two boys - a 17 year and a 24 year old. Gordon enjoys fishing and just about anything associated with the ocean. Gordon and Lisa look forward to some day living closer to the ocean with more time to enjoy it.



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Aker Solutions

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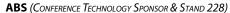
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ABS



ABS is one of the world's leading classification societies. Its mission is to promote the security of life, property and the natural environment primarily through the development of standards for the design, construction and operational maintenance of marine related facilities.

Since providing the first classification services to the offshore industry in 1958, ABS has remained at the forefront of setting offshore industry standards and technical guidance. ABS applies an unparalleled level of experience across the sector to assist owners, builders and operators in the realization of new generation offshore units and offshore support vessels. As the frontiers of offshore are extended into deeper waters and remote and harsh environments, ABS provides technical guidance and practical advice to assist clients in meeting many new technical and operational challenges.

ABS provides a global service through four operating divisions: Americas, Pacific, China and Europe. The worldwide network of skilled ABS surveyors and engineers supports clients from the initial design concept, through the design approval process, during construction and t hroughout the service life of the vessel. ABS also assists clients with the implementation of appropriate health, safety, quality, security and environmental management systems.

AKER SOLUTIONS (STAND 336)

Aker Solutions provides oilfield products, systems and services for customers in the oil and gas industry world-wide. The company's knowledge and technologies span from reservoir to production and through the life of a field.

Aker Solutions brings together engineering and technologies for oil and gas drilling, field development and production. The company employs approximately 28 000 people in more than 30 countries. We apply the knowledge and create and use technologies that deliver our customers' solutions.

Aker Solutions ASA is the parent company in the group, which consists of a number of separate legal entities. Aker Solutions is used as the common brand and trademark for most of these entities. In 2012 Aker Solutions had aggregated annual revenues of approximately NOK 45 billion. The company is listed on the Oslo Stock Exchange.

Advanced Separation Company (ASCOM) BV Westervoortsedijk 71K Arnhem 6827 AV The Netherlands Phone: + 31 26 368 44 50 Fax: + 31 26 368 44 51 info@ascomsep.com www.ascomsep.com



ASCOM (Associate Sponsor & Stand 339)

Advanced Separation Company (ASCOM) BV is a provider of own proprietary and proven Hi-Performance 2-, 3- and 4-phase separation technologies and equipment for use in onshore, offshore and subsea applications. ASCOM engages in conceptual design and technology qualification to form customized high performance solutions for clients.

The technology portfolio of ASCOM covers gas-liguid separation, liguid-liguid separation, produced water treatment, solids handling and gas treatment, based both on vessel internals as well as on compact inline technologies, such as the TWINLINE™ gas-liquid separator. Further technology development for several applications is ongoing, using leading laboratories and flow loops for qualification.

ASCOM is working closely with the major independent and national oil & gas companies, as these recognize the value contributions of ASCOM to design and provide robust equipment and solutions to reduce overall CAPEX and OPEX.

ASCOM is actively involved in multiple studies and design concepts for challenging subsea separation applications, with, for instance, the aim of improving flow assurance.

ASCOM's main office is located in Arnhem, the Netherlands. Additional in-country value is being created through ASCOM's presence with own offices in the Netherlands and Malaysia, as well as partners strategically located in the major oil & gas hubs around the world.

Bardex Corporation 6338 Lindmar Drive, Goleta, California 93117 Tel: +1-805-964-7747 Fax: +1-805-683-1763 bardex@bardex.com www.bardex.com

BARDEX CORPORATION (STAND 459)

Bardex Corporation has operated in the offshore oil/gas and shipyard industries over 50 years, providing heavy load handling and positioning solutions for customers around the world. We invented and developed Linear Chain Jacks for mooring tensioning of Spar buoys, Semisubmersibles & FPSOs and for pipeline and (SCR) riser pull-in systems. We invented and developed the BarLatch™ Fairlead Stopper to minimise inter-link chain wear and out-of-plane/in-plane bending on the top chain of permanently moored production vessels and we invented and developed the hydraulic Gripper Jack for skidding drilling rigs, vessels, jackets and other structures. Additionally we design/supply BOP Handling systems and HPUs.

Bardex has established an excellent reputation second-to-none for designing and supplying high guality, reliable and dependable heavy load handling and positioning systems and is both technology and market leader in its chosen fields.

BARDOT Group ZI Athélia 4, Espace Mistral, Bât A, 297 Ave du Mistral La Ciotat 13600 France Phone: +33(0)4 42 73 31 00 Fax: +33(0)4 42 73 31 09 sales@bardotgroup.com www.bardotgroup.com

BARDOT GROUP (STAND 108)

BARDOT Group, a world-class independent company, designs, produces and delivers high efficiency polymer and composite systems, such as bending restrictors, bending stiffeners, insulation covers, buoyancies, easy field joint, VIV suppression strakes, pipe protection systems, clamps, crossing..., intended to ensure the functional integrity of seabed to surface equipment, and to enhance the hydrocarbons recovery during the whole production-time of the reservoir.

BARDOT Group delivers also their associated innovative installation Aids (stinger rollers, chute rollers, transponder supports, spreader bars, automated conveyors, straps tensioners...) intended to optimize the installation time duration of its equipments.

Meeting Demand: Innovation, Integrity & Investment

Bluewater Energy Services B.V. Marsstraat 33 2132 HR Hoofddorp The Netherlands Tel: +31 23 568 2881 Fax: +31 554 2160 info@bluewater.com www.bluewater.com

BLUEWATER ENERGY SERVICES (Associate Sponsor & Stand 479) bluewater

Since its foundation in 1978, Bluewater has built a technological lead specialising in design, development, lease and operation of tanker-based production and storage systems, and has become a leading provider of innovative Single Point Mooring (SPM) systems.

The company has designed, manufactured, supplied and installed many innovative FPSO, FSO and SPM systems for oil companies worldwide through turnkey supply and time charter contracts. The company also provides operational and logistic management and support for FPSO and ESO systems. **Our FPSO fleet**

Bluewater Energy Services has designed, owned and operated ten FPSOs, of which three have been retired and two have been sold back to the oil companies. Presently Bluewater owns and operates five FPSOs for our clients through a leasing construction. The vessels are designed to high specification and to operate in the harshest environmental conditions, under the most stringent regulatory regimes. Mooring systems Bluewater has developed some of the most innovative SPM systems in service from Catenary Anchor Leg Mooring (CALM) Buoys, to Turret Mooring and Tower systems featuring multiple risers. Each system has its own characteristics and fields of application.

BP Exploration Operation Co. Ltd International Centre for Business and Technology **Chertsey Road** Sunbury-on-Thames Middlesex TW16 7LN Tel: +44 1932 762 000 www.bp.com

> Castrol Offshore Wakefield house Swindon SN3 1RE **IIK** offshore@castrol.com www.castrol.com/offshore



BP (Co-Host, Early Career Engineer Sponsor & Stand 351) BP Oil and Gas Multinational with strong presence in Offshore Deepwater Developments.

CASTROL OFFSHORE (STAND 223)

DNVGL

Castrol Offshore is a leading specialist lubricant and subsea fluid supplier to the global offshore industry covering Production and Drilling. From the smallest drilling rigs to the world's most demanding deepwater production platforms or subsea control systems, Castrol Offshore delivers highest quality lubricants and subsea fluids, coupled with an expert technical support network. The diversity, sophistication and criticality of equipment within the oil and gas industry demand the highest level of lubrication expertise.

Castrol Offshore has developed and tested a range of advanced products against extreme conditions at its state-of-the-art R&D facility in Pangbourne, UK. It offers a range of products that include its Castrol Subsea, Greenfield and Ultimax brands to meet the full range of offshore customer requirements.

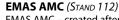
environments. Our software solutions support a variety of business critical activities including design and engineering, risk assessment, asset

For more information, visit www.castroloffshore.com

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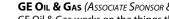


EMAS AMC - created after the acquisition of Aker Marine Contractors AS, is a global EPCIC service provider of comprehensive subsea-to-surface solutions for the offshore construction sector, in particular the vibrant subsea segment. Offerings include subsea construction, umbilicals/power cables, pipelines, platforms and FPSO installations.

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GE Oil & Gas



GE OIL & GAS (ASSOCIATE SPONSOR & STAND 466)

GE Oil & Gas works on the things that matter in the oil and gas industry. In collaboration with our customers, we push the boundaries of technology to bring energy to the world. From extraction to transportation to end use, we address today's toughest challenges in order to fuel the future.

REALIZING THE INCONCEIVABLE TOGETHER



integrity and optimization, QHSE, and ship management.

DOCKWISE (GOLD SPONSOR)

DNV GL (Associate Sponsor & Stand 225)

Dockwise's strategy is designed to offer services for exceptional ocean transportation, offshore installation DOCKWISE and logistical management. Diverse engineering disciplines are strategically positioned throughout our organization to support our core services. In addition, our in-house project management, risk management and procurement professionals contribute to seamlessly deliver total package solutions. We provide reliable services our clients trust.

DNV GL is the leading technical advisor to the global oil and gas industry, working with the sector to enable safe,

reliable and enhanced performance in projects and operations. Through world-class technical assurance, advisory

and risk management services, DNV GL helps customers perform on time and budget, even in the most demanding

In doing so, we deliver solutions contributing to our client's success. In September 1993, two renowned companies, Wijsmuller Transport and Dock Express Shipping agreed to combine their interests to become the World's largest heavy marine transport company. Dockwise, with a workforce of more than 1,400 people both offshore and onshore worldwide, has a global presence headquartered in Breda, the Netherlands and operating offices spanned throughout established and growing markets. Today, being part of Boskalis, a leading global services provider operating in the dredging, maritime infrastructure and maritime services sectors, opens up a world of even more opportunities.

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HARTENERGY (Associate Sponsor & Stand 340)

Since 1983, Hart Energy has been a leader in covering energy industry news and technology for investors and executives. Based in Houston, Hart Energy publishes Oil and Gas Investor, E&P, Midstream Business and FUEL and provides online information services OilandGasInvestor.com, A-Dcenter.com, EPmag.com, and UGcenter.com. Hart Energy also produces specialized market newsletters and conferences, e.g., its Developing Unconventional Gas (DUG[™]) Series was expanded in 2013 to include DUG Australia. Its research arm, Hart Energy Consulting, offers a diverse array of information for the worldwide fuels industry, including the International Fuel Quality Center (IFQC), the Global Biofuels Center and in-depth research.

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HEEREMA MARINE CONTRACTORS (DIAMOND SPONSOR)

Heerema Marine Contractors (HMC) is a world leading marine contractor in the international offshore oil and gas industry. HMC excels at transporting, installing and removing offshore facilities. These include fixed and floating structures, subsea pipelines and infrastructures in shallow waters, deep and ultra deep waters. HMC manages the entire supply chain of offshore construction, from design through to completion.

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LANKHORST MOULDINGS (STAND 470)

Lankhorst Mouldings Offshore is a designer and producer of plastic ancillaries for subsea pipelines, cables, umbilicals and ropes. We have unique capabilities of manufacturing thick-walled injection moulded products, extruded sheet and thermoset casting, from various new and recycled polyethylene (PE), polypropylene (PP) and polyurethane (PU) materials. Examples of products we make:

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- UraGUARD impact and crossing protection
- Bend restrictors
 - Subsea Buoyancy Modules
 - Piggy-back blocks
 - · Drilling riser protection fins

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LONDON OFFSHORE CONSULTANTS (STAND 476)

LOC (London Offshore Consultants) is a leading independent marine and engineering consultancy, providing high quality services to the world's shipping and offshore energy industries and their associated governmental, insurance and legal interests. LOC was established in London in 1979, and has since developed into a leading international organisation employing over 400 highly skilled staff members with a global network of strategically located offices.

LOC combine multi-disciplined engineering and marine knowledge with extensive practical experience to provide a unique range of consulting, survey and marine casualty response services. LOC's workforce is made up of Civil Engineers, Marine Engineers, Master Mariners, Naval Architects, Special Casualty Representatives, Structural Engineers and Subsea and Pipeline Engineers. These expert technical staff have vast amounts of experience in all aspects of marine transportation and marine construction, meaning LOC can offer a wide range of services to our clients in the following areas:

- Marine Casualties
- Marine Warranty Survey
- · Claims, Disputes & Litigation
- Marine Engineering Services & Consultancy
- Surveys, Inspections & Audits

For more information about LOC and the services we provide, visit us at: www.loc-group.com.

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MacDermid Offshore Solutions

MACDERMID OFFSHORE SOLUTIONS (STAND 109)

MacDermid Offshore solutions have been supplying Subsea Control Fluids, BOP control fluids and Motion Compensator fluids to the offshore oil and gas industry since 1979. As the market leader, The Erifon and Oceanic fluids offer the best balance between technical and environmental solutions for hydraulic operations offshore.

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OIL STATES INDUSTRIES, INC (STAND 327)

Oil States Industries is a global leader in products and services for the Oil & Gas industry. The company's unique technologies include FlexJoint[®] flexible couplings for subsea applications, HydroTech[®] systems for construction and repair of subsea pipelines, and advanced tubular connectors including the Merlin[™] product line. Oil States is also known for its Nautilus[®] cranes, mooring systems, winches, and other products and services for the installation and decommissioning of offshore fixed platforms. Its proven Hydra-Lok[®] systems are used for pile swaging and caisson repair, and the company also provides offshore grouting hardware and services, pile grippers/lifting tools, flexible closures and Latch-Lok[™] leveling systems. Oil States' valve systems for subsea and surface applications, specialized welding services, and maintenance support for Marine Risers and BOP systems are available worldwide.

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ONESUBSEA (DIAMOND SPONSOR & STAND 213)

Concerned & Schurberge Company OneSubsea delivers integrated solutions, products, systems and services for the subsea oil and gas market. The company offers a step change in reservoir recovery for the subsea oil and gas industry through integration and optimization of the entire production system over the life of the field. OneSubsea leverages Cameron's flow control expertise, process technologies and world-class manufacturing and aftermarket capabilities, along with Schlumberger's petro-technical leadership, reservoir and

production technology, and R&D capabilities. OneSubsea currently has more than 6,000 employees in over 23 countries operating in six divisions - Integrated Solutions, Production Systems, Processing Systems, Control Systems, Swivel and Marine Systems, and Subsea Services – that provide products and services to oil and gas operators around the world.

QUEST MAPS (BOOTH 325)

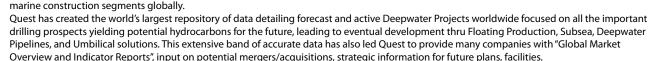
Quest Offshore

QUEST OFFSHORE RESOURCES (CONFERENCE ORGANIZER & STAND 105)

Quest Offshore Resources is a leading provider of strategic data, analysis and market intelligence thru reports, consulting and technical conferences to the offshore oil and gas industry; our niche is the deepwater, subsea and globally.

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Quest Offshore Resources



Quest is also deeply entrenched within the offshore Marine Construction & Installation sector, providing information on markets, assets and news, also providing specialist reports from their consultancy services.

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> Sea Trucks Group Delftseplein 27N 3013 AA Rotterdam The Netherlands Tel: +31 (0)10 - 7540100 Fax: +31 (0)10 - 7540199 www.seatrucksgroup.com



REPSOL (Co-Host & STAND 215)

Repsol is an integrated oil and gas company with presence in more than thirty countries, employing over 23,000 people. Repsol Upstream, which includes oil and natural gas exploration and production activities, has established itself as the growth engine for the group following successful exploration campaigns that have produced eight finds amongst the world's annual top ten since 2005, and industry-leading reserve replacement ratios: 204% in 2012 and 275% in 2013. The

company invests about \$8 per barrel produced on exploration, making Repsol's one of the most ambitious exploration programs amongst integrated oil and gas companies. Hydrocarbons production is growing at an average 7% annually at Repsol with the startup of key projects in Bolivia, United States, Spain, Russia and Brazil. Further output increases from Venezuela, Peru and Brazil will help maintain these growth rates until at least 2016.

ROXAR - A BUSINESS UNIT OF EMERSON PROCESS MANAGEMENT (STAND 222)

Roxar is a leading international technology solutions provider covering the entire reservoir optimization value chain. Roxar's objectives are to help oil & gas operators increase oil & gas recovery from their reservoirs, reduce uncertainty, and make improved field management decisions. Combining its 3D reservoir geological modelling and simulation software with its broad range of topside, subsea and downhole metering and monitoring instrumentation, Roxar provides reservoir management solutions from seismic interpretation and modelling through to production optimisation. The result is that operators generate clearer pictures of the subsurface, are able to monitor production continuously, and can use up to date, accurate and insightful reservoir information when making operational field management decisions

SAIPEM (STAND 335)

Saipem operates in the Engineering & Construction and Drilling businesses, with a strong bias towards oil & gas-related activities in remote areas and deep-waters. Saipem is a leader in the provision of engineering, procurement, project management and construction services with distinctive capabilities in the design and execution of large-scale offshore and onshore projects, and technological competences such as gas monetization and heavy oil exploitation.



SEA TRUCKS GROUP (Associate Sponsor & Stand 342) -Delivering the Difference-

The Sea Trucks Group is an international group of companies offering offshore installation, accommodation and support services to the Oil & Gas Industry worldwide. From ten locations around the world the group offers its customers a wide range of services from sub-sea construction and SURF solutions to accommodation hook-up and fabrication, supported by a multi-national

workforce of more than 2,500 persons. Sea Trucks owns and operates a fleet of new, flexible DP3 construction/accommodation vessels, based on a hybrid design configuration that

combines the following key characteristics:

- Class 3 Dynamic Positioning System
- Large unobstructed decks
- Ability to install rigid pipe and/or flexible pipe
- High capacity cranes ranging from 270 to 1,800 tonnes
- Large accommodation capacities of between 298 and 469 persons

Sea Trucks Group has a strong "can-do" culture giving clients a rapid and effective response to their requirements. Due to the hybrid design configuration of the DP3 vessel fleet we offer our clients a wide range of versatile solutions for their project needs. The Sea Trucks Group will also be able to offer additional marine spread, such as cargo barges and AHTS vessels. For more information:

Corrie van Kessel – Manager, Marketing & Communications

Seaway Heavy Lifting Albert Einsteinlaan 50 2719 ER Zoetermeer The Netherlands Tel: + 31 79 363 77 00 ba@shl.nl www.seawayheavylifting.com



SEAWAY HEAVY LIFTING (GOLD SPONSOR & STAND 338)

Seaway Heavy Lifting is a leading offshore contractor in the global Oil & Gas and Renewables industry, offering tailored T&I and EPCI solutions. We operate globally focussing on the North Sea, Mediterranean, America's, Africa, Asia Pacific/Middle East.

By utilizing our highly skilled and motivated workforce, quality assets and continuous focus on new technologies we provide our clients with safe, effective and added value solutions.

Seaway Heavy Lifting operates and owns crane vessels Stanislav Yudin and Oleg Strashnov, which have a revolving lift capacity of 2,500mt and 5,000mt respectively. Both vessels are state of the art and certified to the highest standards. Seaway Heavy Lifting is a Subsea 7 Joint Venture company

Shell Projects & Technology Kessler Park 1 Rijswijk, The Hague 2288 GS The Netherlands Tel: +31 70 447 39 11 Communications-Rijswijk@shell.com www.shell.com



SHELL PROJECTS & TECHNOLOGY (DIAMOND SPONSOR)

Shell is one of the world's largest independent energy companies in terms of market capitalisation, operating cash flow, and oil and gas production. Our Upstream businesses explore for and extract crude oil and natural gas. This includes the extraction of bitumen from mined oil sands which we convert into synthetic crude oil. We are continually bringing new oil and gas supplies on-stream from major field developments around the world. To do so, we explore in prolific geological formations that can be conventionally developed. We also explore in low-permeability formations that can be economically developed only by unconventional means.

Socotherm S.p.A Viale Risorgimento, 62 Adria (RO) 45011 Italy Phone: +39-0426-941000 Fax: +39-0426-901055 socotherm@socotherm.com www.socotherm.com

SOCOTHERM (STAND 344)

Socotherm, a ShawCor Company, is specialized in the application of thermal insulation, anti-corrosion, internal, and concrete weight coatings for offshore and onshore pipelines. Our coating facilities are strategically located to service the world oil and gas industry in the USA, Argentina, Venezuela and Italy.

Socotherm is the world leader in providing thermal insulation for deep water offshore pipelines, with its Wetisokote, polypropylene based, coating. This product has a successful 10 year track record in the Gulf of Mexico, West Africa and offshore Brazil. It continues to be much in demand from oil companies, having proved itself as a cost effective solution for the most stringent deep water conditions.

Socotherm has been coating pipe for some 40 years and it has exported its products to all of the oil markets in the world and has participated in more than 4,000 projects for over 500 customers. Its R&D centers give Socotherm the capability for finding solutions for its customers' challenges and for flexibility in meeting their needs.

Our mission is safely and efficiently to provide top quality pipe coating services using leading technology.

Subsea 7 www.subsea7.com

SUBSEA 7 (STAND 226)

We are one of the largest, fully integrated offshore engineering and construction providers in the world.

For more than 35 years we have been developing solutions for our clients - from the largest and most complex offshore infrastructure to deepwater and ultra deepwater subsea oil and gas developments.

We offer our clients high-quality services that are built on our core strengths of engineering and project management. Together, our people, our assets and our knowledge offer the best support and solutions to meet our clients' challenges today and in the future. Subsea 7 has global representation in all its major offshore regions. We have long established local businesses that have the support of colleagues and operations from around the world. Subsea 7

has a large and flexible fleet of vessels and ROVs to deliver the right solution locally and globally.

Our level of experience and knowledge is unrivalled in our industry. Our global projects are diverse and showcase our ability to deliver solutions that meet our clients' equally diverse requirements.

People. Technology. Assets. Local presence. Together they make us different and set us apart from the competition.





THE SOCIETY FOR UNDERWATER TECHNOLOGY - SUT (EARLY CAREER ENGINEER SPONSOR & STAND 482)

The Society for Underwater Technology (SUT) is a multi-disciplinary learned society that brings together organisations and individuals with a common interest in underwater technology, ocean science and offshore engineering. SUT was founded in 1966 and has members from around 40 countries, including engineers, scientists, other professionals and students working in these areas.

Teledyne Oil & Gas 1026 North Williamson Blvd. Daytona Beach, FL 32114 Phone: +1 386 236 0780 Fax: +1 386 236 0906 www.odi.com

TELEDYNE OIL & GAS (STAND 111)

Teledyne Oil & Gas delivers high reliability, engineered solutions for subsea and topside sensing and interconnection applications. Capabilities include: Corrosion & Erosion Sensing/Monitoring

Monitoring & Systems Integration For Pipeline Asset Integrity

- Power And Data Interconnection Systems
- Subsea Engineering

 New Product Development Supported By Materials Expertise, Reliability Analysis and Research Assistance Through Teledyne Scientific. Teledyne Oil & Gas Has Global Manufacturing Centers and includes Teledyne ODI, Teledyne Cormon, Teledyne Impulse, Teledyne DGO, Teledyne Storm Cables & Teledyne VariSystems.

Meeting Demand: Innovation, Integrity & Investment

Total 2, Place Jean Millier – La Défense 6 Courbevoie, France 92400 +33 (0)1 47 44 45 46 www.total.com



TOTAL (DIAMOND SPONSOR)

Energy has a critical impact on economic development and standards of living. Wherever it is available, energy is helping to drive progress, but sustainability will require changes in the way that it is used and managed. This is the environment in which we conduct our business. With operations in more than 130 countries, Total is a

top-tier international oil company and a world-class natural gas operator, refiner and petrochemical producer. Our 97,000 employees leverage their acknowledged expertise to discover, produce, refine and convert oil and gas to provide products and services for customers worldwide. We are also broadening our offering by developing energies that can partner oil and gas — today, solar energy and tomorrow, biomass. As a responsible corporate citizen, we focus on ensuring that our operations consistently deliver economic, social and environmental benefits.

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TWI LTD. (Associate Sponsor & Stand 455)

TWI is a world leading independent research and technology organisation, established in 1946 with its corporate headquarters at Granta Park near Cambridge, UK. From bases in the UK, USA, Middle East, Central Asia, Malaysia, China, India and Australia, over 850 staff provide technical support in joining and technologies such as material science, mechanical and structural integrity, NDT/NDE, failure analysis and remediation, surfacing, electronic packaging and cutting. Services include generic research, contract R&D, technical information, consultancy, specialist materials and mechanical testing, standards drafting and interpretation,

software tools, and training and gualification.

TWI offers a single source of expertise in every aspect of joining technology and allied disciplines for engineering materials - metals, plastics, ceramics, composites and electronic assemblies - from materials selection, through manufacture, to in-service performance. TWI is a non-profit distributing company, limited by guarantee and owned by its Industrial Members. It can therefore offer independent, impartial advice and is internationally renowned for its multidisciplinary teams that implement established or advanced technologies, or develop new technologies to solve problems at any stage - from initial design, materials selection, production and quality assurance, through service performance, inspection, integrity management and engineering assessment, to repair.

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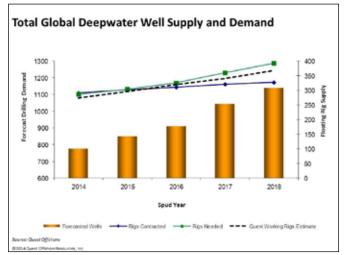


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Global Deepwater Drilling to Increase 50% in Next Five Years

Total deepwater well demand for both exploration and development activities are projected to reach 5,000 wells in 2014-2018 representing ~50% growth over 2009-2013. Development drilling is driving this growth as global operators switch focus towards realizing reservoir potential by increasing production of their deepwater assets. Floating rig supply appears sufficient to meet this demand near-term with opportunities for additional rig contracts towards the end of the forecast period.

Quest tracks global deepwater exploration opportunities as long-lead indicators of future development activity. Over the next five years, Quest



expects a 20% growth in this activity driven by Africa, the US Gulf of Mexico and the North Sea compared to 2009-2013. Quest forecasts Asia to remain relatively flat over the period due to a shift to development drilling. The same trend is observed in South America, led by Brazil, where Petrobras is re-prioritizing rig availability towards production activities. A 15% increase in global exploration success rates in 2009-2013 compared to 2004-2008 provides an increased number of opportunities for development activity in the next seven to ten years.

Quest's comprehensive coverage of the subsea equipment market, provides a strong foundation for the forecast of development drilling where we predict 75% growth in this market in 2014-2018 compared to 2009-2013. Depressed development activity in the past five years was the result of lower levels of inbound subsea tree awards from 2009-2012, but the recent uptick in subsea tree awards will drive a strong backlog of development wells to be drilled in all major deepwater basins.

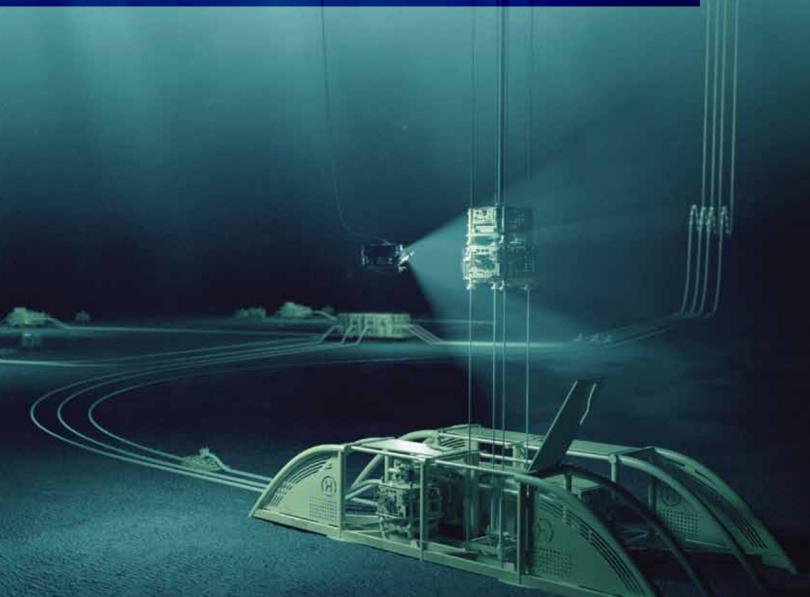
Based on total well demand and growth in floating rig supply, Quest sees supply/demand equilibrium sufficient to drive our well demand projections through 2015. Starting in 2016, Quest sees regionallydriven supply gaps in floating rigs considering our anticipated level of undrilled wells demand. Key regions for floating rig re-deployment or new contracts include Africa, Asia and Brazil (depending on the actual delivery schedule of Petrobras' newbuilds).

Total global well demand is expected to experience robust growth over the next five years as operators look to book ample new reserves coupled with realizing meaningful production from new developments. Our industry's significant migration into deeper waters and harsher environments will require considerable levels of capital investment, innovation and asset integrity to continue meeting enhanced global demand.

For more information email Caitlin.Traver@questoffshore.com



If you're in Deepwater... You need the Subsea Tieback Specialists





The deeper offshore you go, the more you need the advanced subsea tieback resources of EMAS AMC. From strategically located spoolbase and fabrication facilities to state-of-the-art reel-lay, S-lay and flex-lay vessels, we can deliver the complete subsea tieback package for **any**

project, anywhere in the world.

Please visit EMAS AMC **at MCEDD 2014** - **Booth 112 and play** the subsea tieback game to test your knowledge and win prizes.