

# MCE DEEPWATER DEVELOPMENT 2017

.....  
3-5 APRIL, 2017  
NH GRAND HOTEL  
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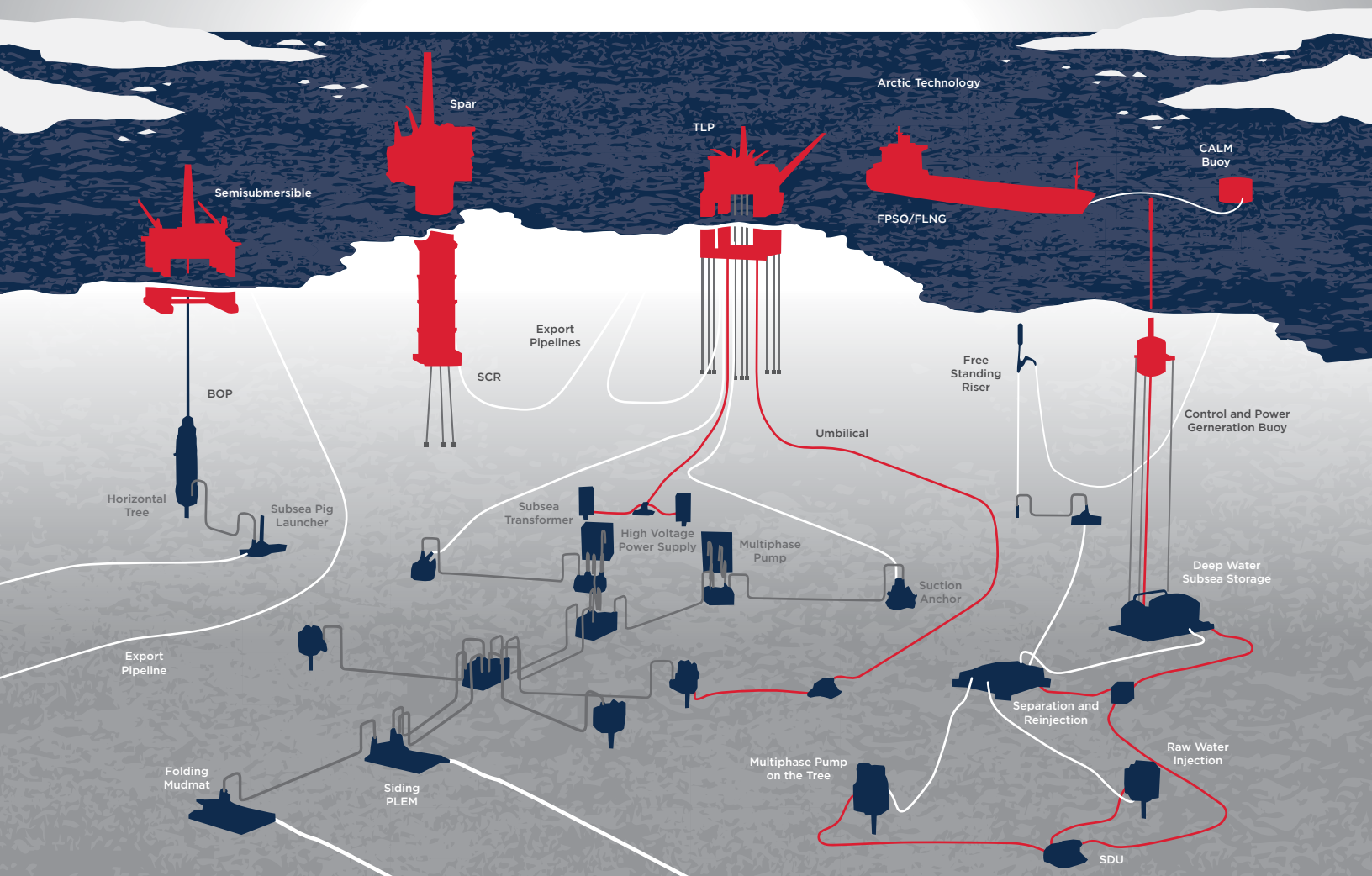


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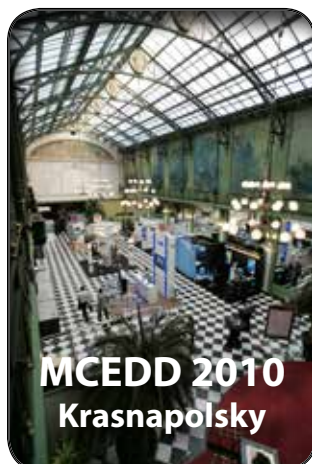
Contact us today to learn more about how ABS is developing practical and sustainable solutions.

# Welcome

## WELCOME TO MCE DEEPWATER DEVELOPMENT 2017!

Amsterdam and MCEDD have a long history. As we look back we see that while we have faced many challenges, we continue to move forward.

MCEDD was born in Amsterdam, in 2004, at the urging of Shell, who saw the coming expansion on Global Deepwater and was altering its contract and risk strategies to fit with a massively expanding industry.



In MCEDD 2010 (at the Krasnapolsky), Deepwater emerged relatively unscathed from the global financial meltdown and was looking to continue major global expansion. Little did we know that, in only a few weeks, the Macondo incident would change our industry forever.

As we gather for the third “Amsterdam Show” we again stand at a point of major change. While we may be bruised, we continue to strive to expand Deepwater in a safer, more efficient manner.

Last year in Pau, the industry heard the call for new ideas and techniques to further Deepwater in a low cost environment. This year’s technical program is aimed at answering that call.

We understand that times are still challenging and we appreciate both your personal and financial support of the 14th annual MCE Deepwater Development. What will we say at MCEDD 2022, when we look back on 2017? Will the strategies and technologies we employ today create a more streamlined approach to Deepwater development?



Thank you for your attendance.

Sincerely,  
John Chadderdon, CEO  
Quest Offshore Resources, Inc.  
Office: +1 (281) 491-5900  
Mobile: +1 (832) 443-0239

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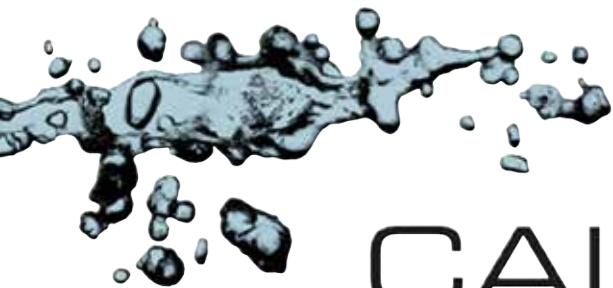
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- Business Advisory
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We work with Operators, Investors and Lenders, Executive Management and Investment Banks.

## Quest Divisions

### Quest Offshore Consulting, LLC

Quest Data & Subscriptions	 CALASH	Latin America Practice		Quest Conferences, LLC
 August 2016  Fully Divested as Asset Sale to Wood Mackenzie, a Verisk Analytics Business	<i>Partnership with Calash</i> <ul style="list-style-type: none"><li>• Strategy</li><li>• M&amp;A Advisory</li><li>• Data Analytics</li></ul>	<ul style="list-style-type: none"><li>• Market Research</li><li>• Strategy &amp; Advisory</li><li>• Economic Impact Studies</li></ul>	<b>Quest Brasil</b> Working with Brazilian Companies & U.S. Private Equity  Technical Conferences	 <b>MCE Deepwater Development</b> in it's 14 <sup>th</sup> Year 3-5 April, 2017 NH Grand Hotel Krasnapolsky Amsterdam, The Netherlands

### Quest Floating Wind Energy

Market Intelligence on Alternative Energy Sources including Deep Wind, Wave and Solar

# Agenda

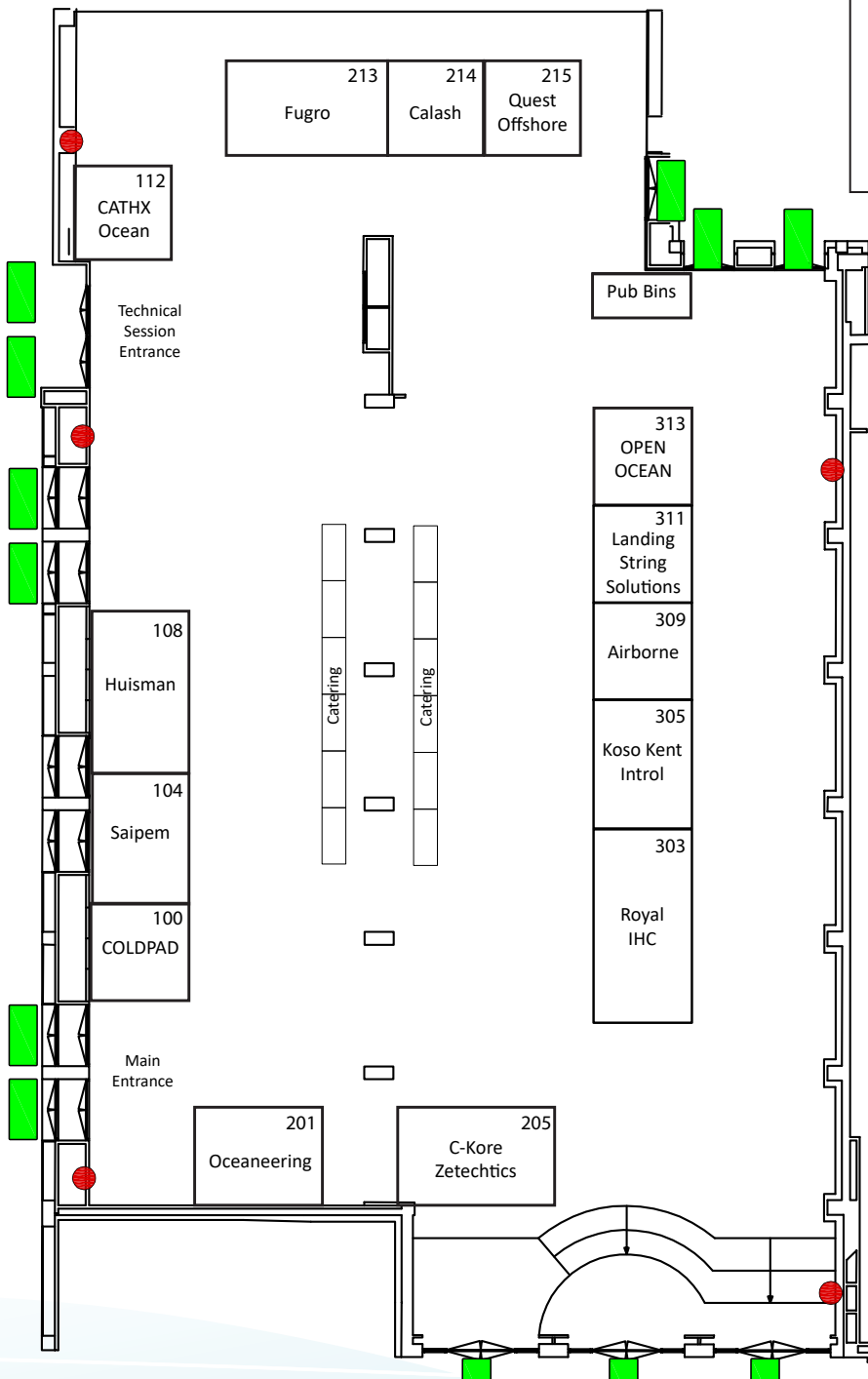
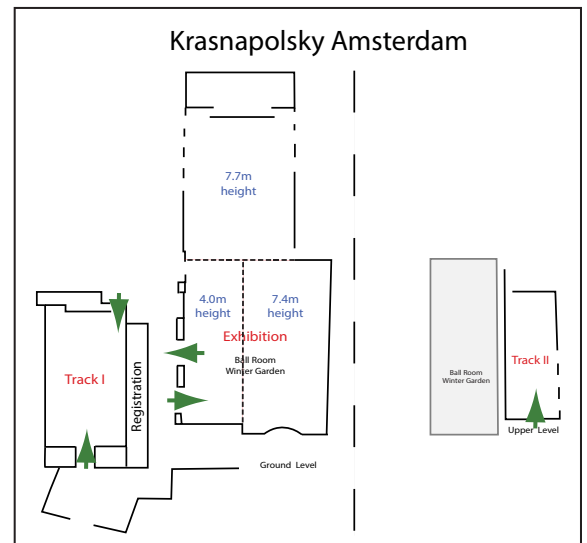
	Track I: Opal I & II Theatre	Track II: Ruby Theatre
Saturday 1 April 2017		
12:00 - 17:00	Registration Open (Exhibitors)	
12:00 - 20:00	Space Only & Shell Scheme Set-Up	
Sunday 2 April 2017		
08:00 - 17:00	Registration Open (Exhibitors)	
08:00 - 20:00	Space Only & Shell Scheme Set-Up	
Monday 3 April 2017		
08:00 - 19:00	Registration & Badge Pick-Up	
08:00 – 09:00	Space Only & Shell Scheme Set-Up	
08:30 - 09:30	Advisory Board Meeting in the Amber 1 <i>Advisory Board/Speaker Ready</i> Room	
9:00	Exhibition Hall Opens	
09:00 – 10:00	Continental Breakfast (Exhibition Hall)	
10:00 - 12:00	Welcome & Keynote Addresses and Leveraging Best Practices	
12:00 - 13:30	Lunch followed by Dessert & Coffee (Exhibition Hall) 	
13:30 - 15:00	Floating Production Systems	Flow Assurance: Active Heating
15:00 - 16:00	Coffee Break (Exhibition Hall)	
16:00 - 17:30	Sub-Surface, Wells & Drilling	Umbilicals, Subsea Controls & Power
17:30 - 19:00	Ice Breaker Reception (Exhibition Hall) 	
Tuesday 4 April 2017		
08:00 - 17:45	Registration & Badge Pick-Up	
08:00 - 09:00	Continental Breakfast (Exhibition Hall)	
09:00 - 10:30	Collaboration & Novel Contracting Approach	
10:30 - 11:15	Coffee Break (Exhibition Hall)	
11:15 - 12:45	Collaboration & Novel Contracting Approach	
12:45 - 14:00	Lunch followed by Dessert & Coffee (Exhibition Hall) 	
14:00 - 15:30	Standardization and Industry Standards	Brownfield IMR & Inspection
15:30 - 16:15	Coffee Break (Exhibition Hall)	
16:15 - 17:45	Marine Construction	Subsea Separation and Boosting
17:45 – 19:00	Evening Reception	
Wednesday 5 April 2017		
08:00 - 16:00	Registration & Badge Pick-Up	
08:00 - 09:00	Continental Breakfast (Exhibition Hall)	
09:00 - 10:30	Cost Reduction	Alternative Energy
10:30 - 11:15	Coffee Break (Exhibition Hall)	
11:15 - 12:45	Subsea Technologies: Cost Efficiencies, Life of Field and Brownfield Applications	Pipeline, Flowline & Risers
12:45 - 14:00	Lunch followed by Dessert & Coffee (Exhibition Hall)	
14:00 - 15:30	Floating Production Systems	Pipelines & Risers
15:30 - 16:00	Awards & Closing Remarks (Exhibition Hall)	
16:00 - 20:00	Exhibition Tear-Down	

Closed to the Press

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# Exhibition Floor Plan





# Exhibitor Directory

## Arranged Alphabetically

Airborne.....	309
Calash .....	214
CATHX Ocean.....	112
C-Kore .....	205
COLDPAD.....	100
Fugro.....	213
Huisman.....	108
Koso Kent Introl.....	305
Landing String Solutions .....	311
Oceaneering.....	201
OPEN OCEAN .....	313
Quest Offshore .....	215
Royal IHC .....	303
Saipem .....	104
Zetechtics.....	205

## Arranged by Booth Number

COLDPAD.....	100
Saipem .....	104
Huisman.....	108
CATHX Ocean.....	112
Oceaneering.....	201
C-Kore .....	205
Zetechtics.....	205
Fugro.....	213
Koso Kent Introl.....	305
Royal IHC .....	303
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Airborne.....	309
Landing String Solutions .....	311
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# Conference Proceedings

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# Technical Program

## **Monday, 3 April 2017**

### Session Rooms

**Track I:** Opal I & II Theatre

**Track II:** Ruby Theatre


- 08:00 - 19:00 Registration & Badge Pick-Up
- 08:00 - 09:00 Space Only & Shell Scheme Set-Up
- 08:30 - 09:30 Advisory Board Meeting in the Amber 1 - Advisory Board/Speaker Ready Room
- 09:00 Exhibition Hall Opens
- 09:00 - 10:00 Continental Breakfast (*Exhibition Hall*)
- 10:00 - 12:00 **Welcome & Keynote Addresses**

### **Leveraging Best Practices** *Closed to the Press*

*Chair: Paul Hillegeist, Quest Offshore*

*Co-Chair: Brian McBride, TechnipFMC*

- Calum Hayton, Eastern Hemisphere Tree Team Lead, Global Subsea Systems, **BP**, “*Supplier-led Solutions: 2 Years On*”
- Benoît LUDOT, Vice President Deepwater and Subsea, **TOTAL**, “*Total DeepWater Roadmap*”
- Jan-Hein Jesse, Owner, **JOSCO Energy Finance & Strategy Consultancy**, “*Oil Price Scenarios | The Global Supply, Demand and Pricing Outlook for Crude Oil, Natural Gas and LNG*”
- Roland E. Teixeira de Mattos, CEO, GE Benelux & MD, GE Marine Europe, **GE Oil & Gas**, “*GE’s disrupting its O&G mindset and business model by leveraging innovation and best practices from the Aeronautical and/or related industries.*”
- Johan de Bie, Managing Director, **Royal IHC**, “*Case Studies for High Baselines on Standardization in the Offshore Industry Based on Experience Gained in the Aeronautical or Space Industry. What did they do and how was it rolled out?*”

12:00 - 13:30 Lunch followed by Dessert & Coffee (*Exhibition Hall*) Sponsored by:  **AkerSolutions™**

### 13:30 - 15:00 **Early Afternoon Session**

#### **Track One: Floating Production Systems**

*Chair: Chris Barton, Wood Group*

*Co-Chair: Ken Richardson, ABS*

- Hajo Helleman, Engineering Project Manager, **SBM Offshore**, “*FPSO Customized Standardization with Fast4Ward™*”
- Anil Sablok, Chief Engineer, Offshore Technology Services, **TechnipFMC**, “*Unmanned Minimal Surface Floating Platforms for Long Subsea Tiebacks*”
- Eduardo LUIILA, **TOTAL EP Angola**, and Jean Philippe COURT, CEO, **COLD PAD**, “*Girassol FPSO Hull Deck Repair by Bonded Reinforcements*”
- Anders Martin Moe, Project Development Manager – Floating Production, **Wood Group Norway AS**, “*Concept Generation and Screening Methodology for Challenging Field Developments*”

#### **Track Two: Flow Assurance: Active Heating**

*Chair: Phil Cooper, Heerema*

*Co-Chair: Laurent Decoret, TechnipFMC*



- Ole Andreas Heggdal, Chief Engineer / Project Manager DEH, **Aker Solutions**, “*New Electrical Heating Systems and Impact on the Overall Subsea Field Architecture*”
- François LIROLA, SURF R&D Lead, **Saipem**, “*Active Heating as an Enabling Solution for Subsea Development and Costs Optimization*” (ECE)
- Christophe T’Joel, Flow Assurance Engineer, **Shell Global Solutions**, “*Heated Flowlines – Cost Benefits to Long Tie-Backs*” (ECE)
- Øyvind Iversen, Discipline Responsible DEH Systems, **Nexans Norway AS**, “*Direct Electrical Heating – Technology Status*”

15:00 - 16:00 Coffee Break (*Exhibition Hall*)

### 16:00 - 17:30 **Late Afternoon Session**

#### **Track One: Sub-Surface, Wells & Drilling**

*Chair: Jens Madsen, Maersk Drilling*

*Co-Chair: Jan van den Akker, OneSubsea*

- Dieter Wijning, Product Manager Drilling, **Huisman**, “*Innovative Rig Design Solutions for Ultra-Deepwater Drilling and Completion Challenges*”
- Martial Burguières, VP of Marine Well Services, **Wild Well Control**, “*Riserless Plug & Abandonment Review – New Technology to Reduce Cost Over Traditional P&A Methods*”
- Paulo BAPTISTA, Senior Production Support Engineer, **TOTAL E&P – Angola**, “*Well Clean-up Directly to the FPSO – Changing Mind-sets for Operations and Reducing Costs*”
- Romain Klevege, Engineering Manager (Europe, Middle East & Africa) - Coflexip® Products Division, and Alexandre Damiens, R&D Program Manager, **TechnipFMC**, “*Unbonded Flexible Pipe with Embedded Electrical Cables for Riserless Light Well Intervention*”

## Track Two: **Umbilicals, Subsea Controls & Power**

Chair: Steve Moulder, Ampelmann

Co-Chair: Phil Cooper, Heerema

- Ronan MICHEL, Solutions Marketing, **Alcatel Submarine Networks**, “DC/FO Technology a Lean & Powerful Subsea Control Infrastructure”
- James Young, Chief Technology Officer, **JDR Cable Systems Ltd.**, “Innovative 72 kV Wet-Design Cables for Dynamic Deepwater Power Umbilicals”
- Alan Dobson, VP Research & Development, **TechnipFMC**, “Technologies Developed for Long Length Cost Effective Tieback Umbilicals”
- Daniel Vita Vunza, Head of Subsea Field Operations Service Block 17 - Angola, **TOTAL E&P – Angola**, “Subsea High Pressure Intensifier on Hydraulic Flying Lead – Solution for Dalia SDU Hydraulic Control Fluid Leaks”

17:30 - 19:00

**Ice Breaker Reception** (Exhibition Hall) Sponsored by: 

## **Tuesday, 4 April 2017**

08:00 - 17:45 Registration & Badge Pick-Up

08:00 - 09:00 Continental Breakfast (Exhibition Hall)

09:00 - 10:30 **Early Morning Session**

### **Collaboration & Novel Contracting Approach** Closed to the Press

Chair: John Kachantones, Shell

Co-Chair: David Bloom, Subsea 7

- Konstantin Kravets, SURF Project Manager, **McDermott Marine Construction Ltd.**, and Kevin Shellard, SPS Project and Engineering Manager, **GE Oil & Gas**, “New Type of Successful Collaboration to Deliver Deep Water Gas Development in Equatorial Guinea”
- Harke Jan MEEK, Chief Commercial Officer, **Heerema Marine Contractors**, “Enhanced Industry Capability and Willingness of Contractor Community to Collaborate to Maximize Value for Operators”
- Gary OWENS, Commercial Manager – Saipem Aker Solutions Alliance, **Saipem**, “Innovative Contracting Strategy for Deepwater Subsea Developments”
- Karim Jan, Business Development Director, **Subsea Integration Alliance**, “Innovative Subsea EPCIC Contracting by Alliance for Better and More Predictable ROI”

10:30 - 11:15 Coffee Break (Exhibition Hall)



11:15 - 12:45 **Late Morning Session**

### **Collaboration & Novel Contracting Approach** Closed to the Press

Chair: Jean-Hervé MORARD, TOTAL

- Tim Crome, Technical Manager, Global Front End, **TechnipFMC**, “EPIC Contracting by Alliance: Step Change in Cost Reduction and Simplification of Subsea Field Architectures by Integrated Contract Model”
- Chris Barton, Sr. VP Business Development – Offshore, **Wood Group**, “Wood Group’s Project Intrepid Initiative”
- Stéphane TAXY, Subsea Technical Manager, **DORIS Engineering**, “The Benefit of Independent Engineering in Project Development”

12:45 - 14:00 Lunch followed by Dessert & Coffee (Exhibition Hall) Sponsored by:



14:00 - 15:30 **Early Afternoon Session**

### **Track One: Standardization and Industry Standards**

Chair: David Bloom, Subsea 7

- Polina Zabelina, Project Engineer, **BP**, “IOGP JIP33 Standardisation of Equipment Specifications for Procurement – Completion of the Pilot and the Next Phase”
- Bjørn Søgård, Segment Director Subsea & Floating Production, **DNV GL**, “DNV GL Guideline Removes Unnecessary Subsea Documentation – An Industry Collaboration”
- Dr. Jim Kaculi, P.E., Vice President of Engineering, **Dril-Quip, Inc.**, “Subsea Connector Designs for HPHT Applications: New Industry Standards for Verification Analysis and Validation Testing”
- Trond Sundby, Principal Engineer - Pipelines & Subsea Systems, **Petroleum Safety Authority Norway**, “Development of Subsea Regulations in the Norwegian Petroleum Industry on Follow Up and Use of Standards”

### **Track Two: Brownfield IMR & Inspection**

Chair: Trevor Hughes, UTEC Survey

Co-Chair: Carl-Petter Halvorsen, CSUB

- Martin Carruth, SWIB and IM/IMR Product Manager, Brownfield Asset Integrity Product Manager, **GE Oil & Gas**, “A Holistic Systems Approach to Maximising Economic Recovery”
- Mathieu LARDEUX, R&D Asset Integrity Project Manager, and Amin NASR, Subsea Intervention Specialist, **TOTAL E&P**, “AUV Pipeline Inspection Development Project”
- Olivier MESNAGE, Development Project Manager, **TechnipFMC**, “Flooding Detection System for Flexible Annulus Integrity Monitoring”
- Helen Tunander, Senior Installation Engineer, **Ocean Installer**, “Novel Method for Replacement of Pliant Wave Risers Whilst Continuing Production on Platform – SIMOPRO”

15:30 - 16:15 Coffee Break (Exhibition Hall)



**Track One: Marine Construction**

Chair: John Upchurch, ABS

Co-Chair: Koen van den Perk, Seaway Heavy Lifting



- Luc RIVIERE, R&D Deep Offshore, **TOTAL SA**, “Subsea to Shore Gas Fields: Cost Reduction”
- D. Jacob Fannon, P.E., Engineering Discipline Manager, Analysis & Technology, **EMAS CHIYODA Subsea**, “Reel-lay Installation of Steel Catenary Risers and Inline Sleds in High Surface Currents” (ECE)
- Ewoud Bloem, Lead Project Engineer, **Heerema Marine Contractors**, “Installation Challenges of Ultra-heavy Inline Structures for Ichthys Flowlines in Reeling and J-lay Mode by DCV Aegir”
- Gregor Scott, Business Acquisition Director, **Ocean Installer**, “A Vision for the Year”

**Track Two: Subsea Separation and Boosting**

Chair: Henk Cornege, Royal IHC

Co-Chair: Eric Hansen, Saipem

- Marco Davide Gabelloni, Business Development Director, **Aker Solutions**, “Development of an Innovative and Simplified Subsea Boosting System”
- Klaus Brinck Hansen, Market Director Lead – Subsea Sampling, **EAB Engineering AS, a Schlumberger Company**, “Subsea Sampling Technology: Evolution & Experience”
- Mika K. Tienhaara, Head of Upstream Americas, **Sulzer Chemtech USA Inc.**, “Subsea Separation – The Next Focus Area for Subsea Processing?”
- Tine Bauck Irmann-Jacobsen, Global Application Owner Watch (FlowManager) Design, **TechnipFMC**, “Deep Water Boosting Design in an Operational Perspective”

**Wednesday, 5 April 2017****Track One: Cost Reduction**

Chair: Frederic GARNAUD, Total

Co-Chair: Laurent Decoret, TechnipFMC



- Grégoire Chabrol, Head of Drilling Specialties, **TOTAL**, “Initiatives Towards Deepwater Projects DRILLEX Reduction”
- Arif Baig, Field Development Engineer, **TechnipFMC**, “Surviving the Low Cost Subsea Industry Environment”
- Raymond Burke, Global Product Leader, **GE Oil & Gas**, “Cost Reduction in Frontier Deepwater Riser Systems”
- Luc HEME DE LACOTTE, Process Engineer Coordinator, **TechnipFMC**, “Deep Water Subsea to Shore Development – Incentives Compared to a Conventional Approach” (ECE)

**Track Two: Alternative Energy**

Chair: Aart Ligterink, Consultant

Co-Chair: Jens Madsen, Maersk Drilling

- Paul Watson, Director of Business Development UK & Europe, **Ocean Power Technologies**, “Energy in Motion”
- Johan Slätte, Project Manager WIN WIN / Senior Consultant, **DNV GL**, “WIN Project at DNV – Windpower Water Injection”
- Joost Heemskerck, Renewable Energy Product Line Director, **SBM Offshore**, “Application of SBM’s Floating Wind Concept”

**Track One: Subsea Technologies: Cost Efficiencies, Life of Field and Brownfield Applications**

Chair: David Bloom, Subsea 7

Co-Chair: Jan van den Akker, OneSubsea

- Tatiana Marie Hoeydal, Subsea Systems Team Lead, **Shell**, “Shell Draugen Infill: Optimizing Late Life Production with Subsea Processing”
- Sadia Shaiek, Subsea Process – Separation Technologies Development Manager, **SAIPEM**, “SpoolSep, Subsea Produced Water Removal and Re-Injection – Development through Cooperative Project”
- Pierre-Jean BIBET, Expert Pumping Systems and MPP, and Francois-Xavier PASQUET, Subsea Production Engineer, **TOTAL E&P**, “MPP on the Sea Bed for a Brown Field Application on TOTAL Block 17 Offshore Angola”
- Akshay Kalia, Project Manager – Subsea Manifolds and Tie in Systems, **OneSubsea, a Schlumberger Company**, “Cost Efficient Subsea Tie-in Solutions”

### Track Two: Pipeline, Flowline & Risers

Chair: Francois THIEBAUD, DORIS Engineering



- Philip Cooper, General Manager, **Heerema Marine Contractors UK Ltd.**, and Daniel McLaughlin, SPS Product Manager, **Dril-Quip Inc.**, "Modular Ultra-Compact Manifold for Installation on Flowline Structures"
- Rohit Shankaran, Senior Engineer, **2H Offshore**, "Feasibility of Steel Lazy Wave Risers in the North Sea" (ECE)
- Bart Steuten, Business Development Manager, **Airborne Oil & Gas**, "Thermoplastic Composite Pipe Subsea Jumper Spools; First North Sea Project Installation and Qualification for Deep Water"
- Charles Tavner, Commercial Director, **Magma Global**, "Thermoplastic Composite Pipe Benefits for SURF Projects"

12:45 - 14:00

Lunch followed by Dessert & Coffee (Exhibition Hall)

14:00 - 15:30

### Early Afternoon Session

#### Track One: Floating Production Systems

Chair: Stephane Montbarbon, SBM Offshore

Co-Chair: John Upchurch, ABS

- Ken Richardson, Executive Vice President Global Offshore, **ABS**, "Gaining Benefits in the Era of Offshore Digitalization"
- Gilles COUSIN, Chief Engineer, **SEAL Engineering**, "Marginal Field Development Concept"
- Alain Ledoux, Naval Architect, **TOTAL SA**, "Lesson Learned from Pre-Emptive Mooring Line Replacement"
- Philippe CAMBOS, Director, **Bureau Veritas**, "Classification of the Largest Ever Floating Storage Regasification Project"

#### Track Two: Pipelines & Risers

Chair: Daniel Sack, EMAS Chiyoda

Co-Chair: Eric Hansen, Saipem



- Stéphane CORBINEAU, Senior Inspection Engineer, **TOTAL SA**, "Computed Tomography for Deepwater Pipelines Inspection and Integrity Assessment"
- Thomas Brown, Senior Riser Engineer, **2H Offshore Engineering Ltd.**, "The Impact of Composites on Future Deepwater Riser Configurations" (ECE)
- Elodie Guittard-Moreau, Riser Lead Engineer, **DORIS Engineering**, "New Design for Hybrid Riser Concepts"
- Yann BROUARD, Lead Engineer, **Subsea 7**, "Tethered Catenary Riser: A Cost Effective Alternative Decoupled Riser System"

15:30 - 16:00

Closing Remarks and Awards (Exhibition Hall)



This year marks the seventh annual Early Career Engineer (ECE) program for MCE Deepwater Development. The ECE Program began in Amsterdam 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 to thank SUT for their strong support of this growing program.



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# Advisory Board & Session Chairs

## CHAIRMAN EMERITUS



**Philippe Gerlach, Deputy Vice President for Technologies (5+ Year Advisory Board Member)**

### Total

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, Cameroon, 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.

## ADVISORY BOARD



**Jan Van Den Akker, Product Manager Controls Systems (5+ Year Advisory Board Member)**

### OneSubsea

Jan van den Akker is control systems product manager for OneSubsea. He is responsible for identifying technology drivers and new products and services for use in Production Control Systems. Prior to the 2013 formation of OneSubsea, Jan had over 20 years of experience within the oil and gas industry. Since joining Cameron in 1990, Jan has been involved in many subsea, surface, and drilling projects across the globe. His previous positions include product engineer, project engineer, sales engineer, project manager, and more recently, project director on a job delivering the world's first all-electric tree system on the Total K5F project in the Dutch sector of the North Sea. Jan earned his master of science degree in mechanical engineering from Delft University of Technology.



**Bob Allwood, Chief Executive (5+ Year Advisory Board Member)**

### SUT

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. He was awarded Subsea UK's Lifetime Achievement Award in February 2010 and the SUT President's Award in December 2016.



**Christopher M. Barton, Senior Vice President Business Development – Offshore (10+ Year Advisory Board Member)**

### Wood Group

Christopher M. Barton is currently Sr. Vice President – Business Development, Offshore for Wood Group. Chris is based in Houston where he has responsibility for offshore BD. He has over 35 years' experience in the upstream oil and gas industry and has held senior roles with KBR, FloaTEC, McDermott, Technip, 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 Offshore Operations, Projects, Business Development and Executive Management in the Americas, Asia Pacific and Middle East. Experience covers all aspects of the upstream industry, including B2B publishing, and the development and management of industry conferences and events.



**David Bloom, Corporate Client Relations Director (10+ Year Advisory Board Member)**

### Subsea 7

David has been associated with the Oil & Gas Industry for 40+ years. He commenced in 1975 as a Financial Controller before moving into General Management and then since 1988 made a career change into Sales and Business Development. For the past 18 years he has been Global and Group Business Development Director for Subsea7. Now he holds the position of Corporate Client Relations Director. David brings a great deal of Contractor Subsea knowledge to the industry.



**Michel Bonte, Vice President Business Development (10+ 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.



**Phil Cooper, General Manager**  
**Heerema Marine Contractors**

Phil joined HMC in 2015, and now manages the London engineering office. Aside from this role, Phil provides technical support to HMC's portfolio of subsea field development projects in definition, tendering and execution phases. Prior to joining HMC, he held technical and business leadership roles at INTECSEA and KW Ltd.

His career includes design of complex subsea systems comprising pipelines, flowlines and associated structures, spools and hardware. Phil has contributed to technical advances in deepwater, pipe-in-pipe, arctic and seismic design. His experience includes all project phases and most of the major offshore oil and gas production regions. He has authored numerous technical papers, and participates in a number of industry technical committees. Before entering the subsea oil and gas sector, Phil provided structural engineering consultancy services to a wide range of landmark projects, from the UK's tallest sculpture to the world's tallest building.

Phil graduated from Loughborough University, UK, and is a Chartered Mechanical Engineer and Fellow of the Institution of Mechanical Engineers.



**Henk Cornege, Senior Business Development Manager**  
**Royal IHC**

With a mechanical engineering background, Henk has held technical and commercial positions in the Shipbuilding & Offshore Industry in the Netherlands during the past 40 years. He moved up through the ranks from mechanical engineering to cost-engineering and conceptual design. After holding the position of Head of Marketing and Sales of the Offshore Division at Royal IHC Henk applied his sales skills as Senior Account Manager primarily focusing on the major offshore contractors. Considering the importance of the Brazilian market for these clients Henk spent a significant part of his time there in recent years, with noteworthy results. Henk is currently active as Royal IHC's Business Development Manager for the offshore sector.



**Laurent Decoret, Vice President SURF R&D and Integrated System Technologies (5+ Year Advisory Board Member)**  
**TechnipFMC**

Laurent Decoret is a french engineer graduated from Ecole Centrale de Lyon with over 20 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.

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 joined Technip Innovation & Technology Center (ITC) beside Paris when it opened early 2013, to coordinate the subsea R&D effort, and subsequently in charge of managing ITC and the overall Subsea Innovation & Technology Development effort. Since early 2016 Laurent is currently VP SURF R&D and Integrated System Technologies as part of TechnipFMC Technology organization.



**Frédéric GARNAUD, Deep Offshore Senior Program Manager**  
**Total**

Frederic GARNAUD graduated as a mining engineer and petroleum engineer from IFP School.

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 2009, RD Program Manager for Production and Development Technologies from 2010 to 2013. Since 2013, Frederic is in charge of Deep Offshore R&D for Total.

He served as OTC program committee for SPE from 2008 to 2013, and has organized panels and technology sessions. Frederic also has numerous international conferences presentations in the area of deep offshore technology, gas valorisation, energy efficiency.



**Iain Grainger, Vice President Commercial Europe & Africa**  
**McDermott**

Iain has over 30 years' experience in the offshore oil and gas industry. He started his career as an offshore construction engineer before moving into project management and then into commercial and corporate strategy roles. Iain is currently Vice President for McDermott's Europe and Africa Region. Iain holds a Bachelor of Science degree in Civil Engineering from Heriot-Watt University and a Master's in Business Administration from Warwick Business School. He is a Chartered Engineer and a Member of the Institute of Marine Engineering, Science and Technology (MIMarEST). Iain is also on the board of the International Marine Contractors Association (IMCA).



**Carl-Petter Halvorsen, VP Business Development (5+ Year Advisory Board Member)**  
**CSUB**

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 Uglund 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 and stayed until a management buy took place in 2004. Then stated working through his own company Consultare Ltd, support business in UK and Norway to grow their business, among others PSI –now TDWilliamson, Marine Subsea Group, Stats Group and others

6 years ago he was one of the founders of flexlife Ltd. based in Aberdeen, flexlife Ltd. was growing to 75 people, he left flexlife Ltd. spring 2011.

He is also now involved in M&A and corporate finance opportunities as an independent working with Simmons International Ltd, especially towards the Norwegian market.

Now also supporting Innospection Ltd Director - Business Development, on the international inspect



**Eric Hansen, Commercial Manager Africa and South Atlantic (10+ Year Advisory Board Member)**  
**Saipem Offshore Business Unit**

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 (now Technip) as Project Manager in 1989.

In 1992, he joined 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 now merged with Subsea7), Eric was promoted Commercial Director for the Africa, the Mediterranean Sea and the Caspian Region with overall responsibility for Marketing, Tendering and Sales.

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

In 2010-2011, Eric Hansen was Commercial Manager with Saipem America in Houston, followed by a 2-year assignment in Singapore as Commercial Manager Offshore for South East Asia & China.

Eric is now Commercial Manager Africa and South Atlantic for Saipem Offshore BU and is based in Paris.



**Mr. Paul Hillegeist, President**  
**Quest Offshore Resources**

Paul Hillegeist is President and Co-Founder of Quest Offshore headquartered in Houston. Quest Offshore is a consulting firm to the global oil & gas industry providing: Strategy & Advisory; Market Intelligence; Data Analytics; and Technical Conferences. Paul has over 26 years of industry experience including 17 years as President of Quest. Paul is a 1988 graduate from The University of Texas at Austin with a Bachelors of Arts Degree in Economics.

Mr. Hillegeist is also a partner of Calash Americas, an energy-focused strategic advisory firm working with major financial clients globally on both E&P and oilfield services. Calash Americas is jointly held by Quest Offshore Consulting, LLC and Calash Ltd. The firms collectively have 30 years of experience providing strategic due diligence services related to mergers and acquisitions.

Quest Offshore Consulting provides advisory & analysis to help energy companies, investors, government agencies and other businesses make strategic data-driven decisions led by both qualitative and quantitative research. Quest Consulting's industry expertise, exemplary track record and wide array of knowledgeable contacts across the supply chain serve as key assets. Quest is establishing a Latin America practice to serve clients involved in the rapidly growing opportunities within deepwater oil & gas in Mexico and Brazil.

In Q3 2016, Quest sold the entirety of its Data & Subscription business to Wood Mackenzie, a Verisk Analytics business. Quest Offshore's dedicated focus on energy markets continues through its Consulting and Conference Divisions both retained by Quest Offshore.



**Trevor Hughes, Director Global Accounts**  
**UTEC Survey**

Trevor Hughes is the Director Global Accounts for UTEC. He initiated the formation of UTEC in 2006 after more than 25 years in the offshore survey industry. Trevor has undertaken work at every level across the offshore survey arena, from vessel based offshore. onshore operations and management, coupled to senior roles at Racal/Thales and Century Subsea.

Trevor's career started after his military service. Royal Engineers, graduating from Military Survey College in Chepstow, UK in 1977. He followed this with three years with 42nd Survey Engineer Regiment, undertaking a variety of topographical mapping projects. He moved offshore to undertake a variety of engineering support activities including hydrographic, pre-engineering, lay and IRM projects commencing in 1983 in the Arabian Gulf. Since that time he has supported the offshore survey arena on a global basis.

Based from Houston, Texas, Trevor now leads the group's support for key account's globally.





**Elen Gaard Johansen, Staff Project Engineer (5+ Year Advisory Board Member)**  
**DEA Norge AS**

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



**John Kachantones, Offshore Installation Global Category Manager**  
**Shell**

John has 26 years experience in the Oil and Gas Industry working the last 15 years for Shell in a variety of procurement roles in both the Offshore and Downstream businesses. Prior to joining Shell, he spent 3 years with a subsea valve manufacturer as a design engineer and then 8 years with a leading Automation supplier in a Sales and Account management role. He grew up in Oklahoma and attended college at Oklahoma State University where he received his Bachelors of Science in Mechanical Engineering. In his free time, John enjoys travel, golf, cycling, and spending time with his family. John is married and has four children.



**Aart Ligterink**  
**Consultant**

Aart started his career in the oil and gas industry in 1980 with Heerema and thus has over thirtyfive (35) years experience. As a Foundation Engineer he worked on many platform installations worldwide. Since 1994, Aart worked as Manager Business Acquisition Department for Seaway Heavy Lifting (SHL). He then progressed to be Business Development Director with Seaway. In 2015 Aart became Sales Director Terminals with SBM's affiliate Imodco in Monaco. Imodco is the trusted partner of choice for mooring technology worldwide and shallow water and deep water offloading terminals. Today, Aart is Deputy Business Unit Manager within the Deme group.



**Frans Pieter Lindeboom, Category Manager Offshore Rigs (5+ Year Advisory Board Member)**  
**Repsol Exploration SA**

Currently in Repsol Exploration Category Manager Rigs, main responsibility in contracting of and overall support to all drilling projects in the area of drilling rigs. 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.



**Jens J. 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, technical, operational and now in a commercial position. He has been responsible for the expansion of Maersk Drilling into the Caspian Sea and into the deepwater market, has worked with the Arctic market and is currently engaged in opening new markets for Maersk Drilling.



**Brian McBride, Regional Manager for Emerging Markets**  
**FMC Technologies**

Brian is currently the Regional Manager for Emerging Markets. This involves an understanding of the country, its capabilities and building relationships in those countries. Also an oversight across all key accounts and working closely with the Global/ Regional Sales personnel to identify the value they can bring to the account relationship in a way that most benefits the customers.

Brian has over 30 years' experience in the oil and gas industry and has held positions in Subsea Offshore Installation, After Market, New Manufacture and Project Management. This lead to various Sales /Regional and Global Management roles engaged in various countries including UK, Caspian Sea, Canada, Europe, and Africa.



**Garry Millard, Chief Executive Officer (5+ Year Advisory Board Member)**  
**Flexlife**

Garry Millard is the Chief Executive Officer for the Flexlife Group. Garry has worked in the Oil and Gas Industry for over 35 years and was originally an Engineer; he has a MBA from Robert Gordon University in Aberdeen and for the last 17 years has worked in senior project management, commercial, business development and director roles for the likes of Stolt Offshore, Saipem, DOF Subsea and the Sparrows Group. 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 (5+ Year Advisory Board Member)**  
**SBM Offshore**

Stephane Montbarbon is responsible for the SBM Offshore Contracting Product Line and has Global responsibility for the Business Development, Business Acquisition and Execution of all installation projects for the SBM Group. Stephane has more than Twenty-five years of engineering, project management, and sales position in the development of major offshore projects around the world with Acergy and now SBM; he holds a Master Degree in Offshore Engineering from Ecole Central Marseille in France.



**Jean-Hervé MORARD, Deputy Vice President Deepwater and Subsea**  
**TOTAL E&P**

Jean-Hervé has been working for TOTAL for the past 17 years. He held different project positions in different countries such as Norway, Iran, Nigeria, Indonesia. He has then been Development Project Manager for America region in TOTAL Head Quarter before taking over the position of Director of the Brown Field Projects entity of TOTAL E&P Angola.

Since beginning of 2017, he is Deputy Vice President Deepwater and Subsea for TOTAL E&P Branch.



**Steve Moulder, Business Development Manager**  
**Ampelmann**

Steve has been with Ampelmann since August 2016 bringing experience to a young company in developing new opportunities. He is passionate about the industry and the customers he serves and has been highly successful in winning new business with his clear understanding of customer needs and company capabilities.

Steve joined Ampelmann from KBR from where he was Business Development Manager, EMEA region for their Consultancy businesses Granherne, Energo and GVA. Previously he has held roles at GE Oil & Gas where he was Global Account Director responsible for developing and managing business activities with BP, BG Group and Maersk Oil for the Drilling, Surface and Subsea Production business units and for BP Oil UK Ltd where he was Business Development Manager for Castrol Offshore developing regional strategies for upstream oil and gas markets around the world, developing market intelligence and analysis and extending Castrol's business into the BRIC countries. Steve has held engineering, projects, proposals and sales / business development roles in several companies supplying equipment, consumables and services to the Upstream Oil & Gas industry for over 20 years.

Steve has a BSc in Computing and a HNC in Engineering from his local University and College. He has 2 children and is interested in several sports as both a spectator and competitor. Steve is from Gloucester, UK and is currently based in Ampelmann's office in Doha, Qatar



**Vibor Paravic, General Manager**  
**GMC Ltd.**

Vibor Paravic holds a Master's degree in Mechanical Engineering from the University of Houston. He started his career in artificial joint design and biomechanical and polymeric material research. Vibor has since worked on energy projects in the Gulf of Mexico, West Africa, Mediterranean, and the North Sea. He has worked as a design engineer on subsea structures and equipment, as engineering manager in subsea construction, and has been on the management team for new start construction company. Mr. Paravic is now the General Manager of GMC Limited in London focusing on construction project management and providing mechanically connected pipe lay and versatile field development solutions.



**Koen van der Perk, Senior Vice President Commercial**  
**Seaway Heavy Lifting**

Koen van der Perk serves as a senior executive for Seaway Heavy Lifting, a global player in the field of offshore transportation & installation in the oil & gas, renewable energy and decommissioning sectors. Koen has a background and excellence in commercial contracts and business management. In 2009, he joined Seaway Heavy Lifting. He started as a contracts supervisor within the Contracts Department, and was promoted to contracts manager in 2010, manager of the Contracts Department in 2011 and commercial manager in 2012. He finally became senior vice president commercial in 2013. Koen leads the sales group for Seaway Heavy Lifting, consisting of the business analyses, business development, proposals and contracts departments. Prior to working for Seaway Heavy Lifting, Koen spent five and a half years at Heerema Marine Contractors, where he served as a contracts manager for an EPIC project, as well as a contracts engineer within the legal department.



**Philippe Perreau, Director – Technologies Innovations Projects (5+ Year Advisory Board Member)**  
**EVOLLEN**

Since 2009, Philippe Perreau has been appointed EVOLLEN Director, Technologies Innovations Projects and Director of R&D CITEPH Program

Philippe Perreau, 60, 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 (5+ Year Advisory Board Member)**  
**Consultant**

Over 30 years experience in the subsea sector of the oil business from Operator & Service Company sides of the fence. Recently assigned to Vietnam's first deepwater development for Talisman Energy, as the Top Tensioned Riser, Tree & Wellhead Delivery Manager. The field utilizes a TLWP, the first for Vietnam producing to a FPSO tied back to existing infra structure. Previously with EON the German power conglomerate since they entered the North Sea as an Operator following their acquisition of Caledonia Oil & Gas. On the service side worked with Halliburton & Global Marine Integrated Services on the new millennium era fashionable integrated service contracts before moving to Expro to complete the conceptual work for the AXIS deepwater intervention system. Oil career began with Shell's diverless UMC project from construction to installation & operation before moving to BP for its West of Shetland fore runner DISPS.



**Mike Read, President**  
**Teledyne Marine**

Mike Read is the President of Teledyne Marine, a group of 23 Teledyne Companies and the President of Teledyne Oil & Gas, a division of Teledyne Technologies, a group he formed six years ago. Prior to this, Mr. Read was President and CEO of Ocean Design Inc. (ODI), until the successful acquisition by Teledyne in 2006. 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 Advisory Board of PESA, Deepwater Europe and Team Volusia, the CEO Alliance of Daytona Beach and the Executive Advisory Board of Florida Atlantic University (FAU).



**Ken Richardson, Executive Vice President, Global Offshore (5+ Year Advisory Board Member)**  
**ABS**

Executive Vice President, Global Offshore 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.



**Daniel Sack, Chief Operating Officer Western Hemisphere, and Chief Technology Officer**  
**EMAS CHIYODA Subsea**

Daniel is responsible for all Operational Profit and Loss for the Western Hemisphere (Europe and the Americas), including management of the HSE, Quality, Projects, Project Controls, tendering, Supply chain and Vessels and Assets functions. He has over 25 years of experience in project management and engineering for the O&G industry. He also heads the position of Chief Technology Officer for the Company. He has a Master's degree in Petroleum Engineering from the French Petroleum Institute. Prior to Joining EMAS CHIYODA, Daniel worked for 5 years with Schlumberger where he first managed the development of a deepwater subsea well intervention system in Singapore and then managed the Early Production Facility group in Houston. He has also previously held project and operations management positions for deepwater subsea EPC developments while working 11 years with Technip in Australia, the United States, France and Angola, and 4 years with Bouygues Offshore (now Saipem) in West Africa and South East Asia.



**Bjørn Søgård, Segment Director Subsea and Floating Production**  
**DNV GL**

Bjørn Søgård started his career designing subsea trees in 1991. His experience covers system engineering management for large subsea projects as well as leading key technology areas as applied materials and analysis for subsea systems. He has also extensive experience with technology development and R&D. He has been member of several committees for developing international standards for the subsea industry. He is also a member of national organisation (owned by Ministry of Petroleum and Energy) which purpose is to promote future technologies for efficient and safe oil and gas industry. Bjørn Søgård joined DNV GL 2005 and is today heading business development for subsea, globally. Bjørn graduated from Heriot Watt University in 1991 with a degree in Mechanical Engineering.



**Douglas Stroud, Senior Vice-President, Global Commercial (5+ Year Advisory Board Member)**  
**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 (5+ Year Advisory Board Member)**  
**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 various large size subsea and floater projects.

He is now Vice President of Operations with Doris Engineering.



**John Upchurch, Subsea Director**  
**ABS**

John L. Upchurch is a proven team builder with more than 30 years of varied oil and gas experience. He got started in the industry with Phillips Petroleum Company in West Texas in 1980, He first got involved with Offshore and Subsea systems as a drilling engineer in 1989, working on wells offshore Louisiana. He was responsible for Phillips Seastar their first GoM Subsea Development,

He joined Aker Engineering in 1997 where he was responsible for numerous PreFEED and FEED projects, including Exxon Diana/Hoover and BG WDDM In 2000 he was charged with winning and then executing the Technip/BP Deepwater Program (Thunder Horse, Atlantis, Mad Dog and Holstein projects).

John switched to Onshore/Downstream in 2007. After spending 18 months managing Technip’s ExxonMobil downstream program John took over as the head of Technip Deepwater Engineering organization in 2009. He then moved up, ultimately becoming Sr. Vice President of Genesis Oil and Gas Consulting, a Technip subsidiary. As the SVP for Genesis he had P&L responsibility for a 500+ person, global Engineering and Project Management organization, where he consistently met or exceeded financial targets for operations in North America, South America, SE Asia and Australia.

John joined the American Bureau of shipping in 2016 where he is developing a Subsea organization specializing in Verification and Validation.



**Hervé Valla, Head of Technology & Innovation**  
**Aker Solutions**

Mr. Hervé Valla is currently CTO, Head of Innovation and Technology.

The French has over 25 years of experience in the oil and gas industry. He joined Aker Solutions in 2007 and has held various senior management positions in Aker Solutions, including Chief Technology Officer, Head of Research and Innovation, Head of Subsea Products and Technologies and Project Director. He has also an extensive project management experience within SURF from 15 years in Technip. He holds Master’s degree of industrial and mechanical engineering from the Ecole Nationale Supérieure des Arts et Métiers in Paris.



**Dave R. Wilkinson, Senior Subsea Systems Consultant (5+ Year Advisory Board Member)**  
**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.



**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.

# Speaker Biographies



**Arif Baig, Field Development Engineer**  
**TechnipFMC**

Arif Baig is currently working as a Field Development Engineer for Forsys Subsea (An FMC Technologies & Technip Company) based in Houston, Texas, USA. He holds a BS degree from Osmania University, India, and an MS Degree in Mechanical Engineering from the University of Detroit, Michigan. He started his career in the automotive industry designing electro-mechanical systems before joining FMC Technologies. He has over 9 years of experience in the Subsea Upstream Oil and Gas sector where he has been involved in the design and development of subsea production systems and has worked on several Front-End studies, tenders, and R&D initiatives.



**Paulo BAPTISTA, Senior Production Support Engineer**  
**TOTAL E&P Angola**

Paulo has worked for TEPA for more than 10 years in the fields of well performance and production engineering based mostly offshore on the Girassol FPSO. He currently holds the position of Senior Production Support Engineer based onshore in Luanda where he provides process and production support directly to the TEPA FPSOs within Block 17.



**Chris Barton, Sr. VP Business Development – Offshore**  
**Wood Group**

Christopher M. Barton is currently Sr. Vice President – Business Development, Offshore for Wood Group. Chris is based in Houston where he has responsibility for offshore BD. He has over 35 years' experience in the upstream oil and gas industry and has held senior roles with KBR, FloaTEC, McDermott, Technip, 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 Offshore Operations, Projects, Business Development and Executive Management in the Americas, Asia Pacific and Middle East. Experience covers all aspects of the upstream industry, including B2B publishing, and the development and management of industry conferences and events.'



**Pierre-Jean BIBET, Expert in Pumping Systems and MPP**  
**TOTAL E&P France**

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 22 years of professional experience with pumps, and he has specific expertise in Multiphase Pumps (MPP).



**Johan de Bie, Managing Director of IHC Hytech**  
**Royal IHC**

Johan is the Managing Director of IHC Hytech, Royal IHC's in-house specialist in high quality diving systems and hyperbaric equipment. IHC Hytech was founded in 1989 and is a key designer and supplier of products for the offshore and inshore diving industry, hyperbaric medical industry, life support industry and the hyperbaric tunneling industry.

He joined the company in 2011 and has since worked on various diving related projects, e.g. self-propelled hyperbaric lifeboats – surface supplied mixed gas diving systems – wet bell diving systems – deep tunneling saturation chamber systems – special dive equipment projects. Together with the Royal IHC yard he has worked on the installation and integration of saturation dive system for integrated turn-key DSV solutions.



**Ewoud Bloem, Lead Project Engineer**  
**Heerema Marine Contractors**

In his 10 year career within Heerema Marine Contractors, Mr Bloem worked on all phases of SURF EPCI projects. He started his career with HMC as an Installation Engineer for T&I pipelay projects in the Gulf of Mexico. After that he became Project Engineer for the BP Block31 SURF EPCI project in Angola. The past 4 years he worked in Australia as Engineering lead for a the Ichthys flowlines project. Currently Mr. Bloem works as Lead Project Engineer on SURF tenders.



**Yann BROUARD, Lead Engineer**  
**Subsea 7**

Graduated from hydrodynamic Engineering school Centrale in Nantes, Yann has 14 yrs experience in Oil and Gas within the Riser and Hydrodynamics department in Subsea7, based in Paris. He has worked on various West Africa large deepwater projects such as Total Moho-Bilondo, Exxon Block 15, Chevron Lianzi, Total Pazflor. Yann is now working for Tenders and Riser Technology Development projects.



**Thomas Brown, Senior Riser Engineer**  
**2H Offshore Engineering Ltd.**

Tom Brown is a senior riser engineer at 2H Offshore. He holds a master's degree in Mechanical Engineering from the University of Surrey, is chartered with the IMechE, and has been with 2H for over 4 years. Tom's experience is in the analysis and design of riser and conductor systems, encompassing drilling, production and export risers in shallow and deep water. Tom has experience with the global analysis of thermoplastic composite risers on various concept studies.





**Martial Burguieres, VP of Marine Well Services  
Wild Well Control**

Martial Burguieres is the current VP of Marine Well Services for Wild Well Control and oversees the Subsea, Unconventional Marine and WellCONTAINED groups. Martial began his career in the oilfield service sector primarily focused on well intervention and construction with Weatherford. After joining Oceaneering as part of the DTS group, Martial saw the need to bridge the gap between well operations and subsea equipment/workover packages as he felt they were being developed disparately vs in parallel. A native of Houston, Martial is a graduate of Texas Christian University and Rice University.



**Raymond Burke, Global Product Leader  
GE Oil & Gas**

Raymond Burke is currently the Global Product Leader for flexible pipe in GE Oil & Gas. He has previously worked as Category Manager leading the pipeline function in BP's Global Subsea Hardware organisation. Prior to that, he led the engineering and delivery of the riser scope for the Quad204 floating production project, West of Shetland. He was elected a BP Global Technical Advisor in 2013 and previously held technical authority and leadership roles in several global Shell entities. In 2007 he established and led a start-up company, which was spun-out from Shell growing from 1 to 30 staff in Houston.

He has a first-class degree in Mechanical Engineering, and a Master's degree in Ocean and Subsea Engineering, both from University College London. He is a chartered engineer, Fellow of both the Institutions of Mechanical Engineers, and Marine Engineers. He has 25 years technical and commercial experience, mostly in the fields of subsea engineering, material selection and structural design – applied to major capital projects delivery and novel technology deployment.

He previously worked as a full-time university lecturer in mechanical engineering, and as an independent design consultant; and is a named inventor on 19 patents.



**Philippe CAMBOS, Director  
Bureau Veritas**

Philippe CAMBOS is a Naval Architect, Joined Bureau Veritas in 1991, in the calculation team. In 1994 he joined the development team of VeriSTAR software, where he was more specifically in charge of development of the fatigue methodologies. In 1997 he was appointed Head of tanker section, in the Paris plan approval office. In 2002 he was appointed Head of the Oil & Gas section in Technical department of Bureau Veritas Marine Department. With this section he was in charge of drawing review for hull part of Oil tankers, Gas carriers and offshore units, including mooring systems and was involved of maintenance of in service FPSOs. In the early 2000, he was also in charge of the design review of the LNG RV (LNG tanker wit regasification) ancestor of the actual FSRUs. His experience was used in the development of the Bureau Veritas Rules for the classification of offshore units. In 2008 he was appointed Project manager for the classification and certification of a project of FPU in Barents Sea. In 2011 he was appointed Director of "Oil & Gas" projects, and has followed several offshore projects. He was also involved on the Project of Arctic LNG Carriers for Yamal LNG.



**Martin Carruth, Brownfield Asset Integrity Product Manager  
GE Oil & Gas**

Martin runs the Integrity Management product line and is responsible for bringing asset management solutions to market to maximize customer production efficiency and opex reduction. Prior to this role Martin led the subsea services regional business in MENAT and Rest of Africa, providing overall operational ownership and customer account management.

Martin brings to oil and gas +15 years services experience in power generation where he provided customer portfolio support, executed long term service agreements and led rotating equipment repair development and delivery.

Martin graduated from the University of Strathclyde in Metallurgy and Engineering Materials and completed post graduate scholarship at the EU's High Temperature Materials Research Facility in The Netherlands. He is a keen triathlete and is currently based in Nailsea, UK.



**Grégoire Chabrol, Head of Drilling Specialties  
TOTAL**

Hold several drilling engineering position for Total in Nigeria, Indonesia, Angola in various environment.

Drilling Manager for Total in Malaysia and Papua New Guinea.

In charge of Total Drilling Specialties service in HQ since early 2016.

Involved with deepwater operations in Gulf of Guinea and Malaysia and in HQ for conventional and frontier deep water operations.



**Philip Cooper, General Manager  
Heerema Marine Contractors UK Ltd.**

Phil joined HMC in 2015, and now manages the London engineering office. Aside from this role, Phil provides technical support to HMC's portfolio of subsea field development projects in definition, tendering and execution phases. Prior to joining HMC, he held technical and business leadership roles at INTECSEA and KW Ltd.

His career includes design of complex subsea systems comprising pipelines, flowlines and associated structures, spools and hardware. Phil has contributed to technical advances in deepwater, pipe-in-pipe, arctic and seismic design. His experience includes all project phases and most of the major offshore oil and gas production regions. He has authored numerous technical papers, and participates in a number of industry technical committees. Before entering the subsea oil and gas sector, Phil provided structural engineering consultancy services to a wide range of landmark projects, from the UK's tallest sculpture to the world's tallest building.

Phil graduated from Loughborough University, UK, and is a Chartered Mechanical Engineer and Fellow of the Institution of Mechanical Engineers.





**Stéphane CORBINEAU, Senior Inspection Engineer**

**TOTAL**

Graduate Engineer from Institut National Polytechnique de Grenoble (France).

25 years experience in Inspection, Corrosion and Integrity Management.

As an Inspection & Integrity Manager, he has held several positions for Total E&P, both in the Head Office and in Affiliates (France, Congo, Angola, Yemen), with a professional background covering a wide range of assets (onshore, offshore, deep-offshore and LNG Plant).



**Jean-Philippe COURT, CEO**

**COLD PAD**

With a 20+-year experience in offshore oil and gas platforms and floaters, Jean-Philippe COURT is an industry recognized expert in structural engineering.

Before founding and creating COLD PAD, he has held several positions in the structural engineering departments of various companies such as Subsea7, Technip and DNV and spent more than 10 years at the naval architecture and offshore structures department within

TOTAL.

Jean-Philippe has also been the COO of a structural engineering company specialized in energy sector for many years.

Carrying out live modifications on FPSO, like Girassol for the deepwater Rosa project allowed him to better understand the needs of oil Majors and revealed the necessity for cold repairs in this industry.

This led to the inception of COLD PAD, to develop a safe, reliable and durable structural bonded reinforcement solution for marine environment that complies with the offshore standards.

Jean Philippe holds a degree in structural engineering from Paris 6 University and ENS Cachan & Centre des Hautes Etudes de la Construction.



**Gilles COUSIN, Chief Engineer**

**SEAL Engineering**

Gilles acquired over 19-years of experience with SEAL ENGINEERING (TechnipFMC group) in deepwater projects (conceptual, front-end and detailed engineering studies) featuring riser and flowline systems, subsea structures and laying equipment.

Gilles is currently holding the responsibilities of project management and R&D coordination within SEAL Engineering.



**Tim Crome, Technical Manager, Global Front End**

**TechnipFMC**

Tim has worked in the offshore pipeline / subsea industry since graduation from Imperial College, London in 1980. He joined TechnipFMC in Norway in 1997 and is now the Technology Manager for the Global Front End group for subsea projects. For the two years prior to January 2017 he was Vice President for Subsea in the Mediterranean Region, which followed seven years as Director for Sales and Business Development for the Technip operation in Norway. From 2001 to 2007 he was Engineering Manager for the

Oslo office. Tim sits on the conference committees for the annual Offshore Pipeline Technology Conference, held in Amsterdam, Netherlands, and the Underwater Technology Conference, held in Bergen, Norway, and has previously represented Technip on the DNV Pipeline Committee. His career started with pipeline design at JPKenny in London. In 1984 he was seconded to Oslo to work for Norsk Hydro and has been in Norway ever since working on subsea and pipeline related projects for Det Norske Veritas, Norsk Hydro and Offshore Design, prior to joining TechnipFMC.



**Alexandre Damiens, R&D Program Manager**

**TechnipFMC**

Alexandre has a mathematics engineering background and Science Master on numerical modelling. 10 years' experience in the flexible pipe technology spent at the R&D center in various positions from FEA engineer, flexible pipe design engineer, in-field incident analyst & manager, project engineering manager and the current position as R&D program manager for the Ultra Deep Water Program. He was involved in the project presented as engineering and qualification manager.



**Alan Dobson, VP Research & Development**

**TechnipFMC**

I am a Chartered Mechanical Engineer with a degree in Mechanical Engineering from Newcastle University, in the UK. I hold a Masters degree in Subsea Engineering & Management and a PhD in Subsea Robotics & Control. I have a broad subsea technology background focused upon the development of new technologies for installation and trenching and technologies related to Umbilicals, Risers and Flowlines. For the past 15 years I have worked for Technip and I am currently head of technology for the TechnipFMC Umbilical group.



**D. Jacob Fannon, P.E., Engineering Discipline Manager, Analysis and Technology**

**EMAS Chiyoda Subsea, Inc.**

D. Jacob Fannon, P.E., is the Analysis and Technology Discipline Manager for EMAS Chiyoda Subsea, Inc. Prior to joining EMAS Chiyoda Subsea, Jacob held many analysis, design, testing, and project management roles in the aerospace defense sector. He joined EMAS Chiyoda Subsea in 2012, and has held a variety of technical engineering and leadership positions in the Analysis and Technology discipline having established himself as an authority on spooling, reeling, and reel-lay analysis. Jacob holds a B.S in Mechanical

Engineering from Georgia Institute of Technology, a Masters in Business Administration from the University of Texas at Arlington, and is a registered Professional Engineer in the State of Texas.



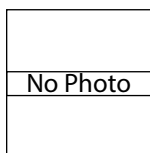
**Marco Davide Gabelloni, Business Development Director**  
**Aker Solutions**

Marco Gabelloni works as Business Development Director for the Subsea Production Alliance, an alliance between Aker Solutions and Baker Hughes. He is responsible for sales and business development, focused on solutions aiming at boosting outputs, increasing recovery rates and reducing costs for subsea fields. Mr Gabelloni holds a BS and MS in Aerospace Engineering from Pisa University, Italy. He has 10 years of experience in the Oil & Gas industry, mainly in business development, product management and technology development. Before joining Aker Solutions, Marco worked 5 years at GE Oil & Gas in the turbo machinery department.



**Elodie GUITTARD-MOREAU, Riser Lead Engineer**  
**DORIS Engineering**

Elodie Guittard-Moreau is a Senior Riser Engineer in DORIS Engineering with 12 years of subsea background in oil and gas industry. She has developed her riser experience since 10 years in offshore deepwater projects and R&D subjects. She is currently managing studies on upsetted SCRs and hybrid riser towers with challenging objectives of cost reduction for deepwater developments.



**Klaus Brinck Hansen, Market Director Lead – Subsea Sampling**  
**EAB Engineering AS, a Schlumberger Company**

Technical lead and engineering manager for subsea sampling at EAB Engineering AS, a Schlumberger Company (Gjøvik, Norway) since 2009.

Has been technical lead and project manager for several oil and gas infrastructure projects, as well as customized subsea tooling development projects.

Market Director for EAB Engineering AS, a Schlumberger Company specialized within subsea oil and gas infrastructure, tooling and tie-in technology. Holds a master's degree in industrial economics and technology management, within mechanical engineering and product development.



**Calum Hayton, Eastern Hemisphere Tree Team Lead, Global Subsea Systems**  
**BP**

Originally from Edinburgh, Calum has now lived in Aberdeen for over 20 years. He spends most of his time outside work providing taxi services for his 3 energetic children. When not driving he likes pretending to be a mechanic and fix his old Land Rovers.

Calum has been Project Managing and Delivering Subsea Hardware for the last 13 years, firstly with Vetco/ GE and the last five years with BP.

He currently holds dual roles within BP as Tree Systems Team Lead for the Eastern Hemisphere, along with a Project Management role delivering subsea hardware for the West of Shetland Quad204 redevelopment project. Both of these roles are within the GSS team.

GSS (Global Subsea Systems) is responsible for the specification, design, delivery, and maintenance of Subsea Production Systems. This includes components from the wellhead through to flowline entry as well as related topsides elements. GSS acts as BP's single face to the subsea hardware suppliers for equipment design procurement, storage, maintenance, and onshore repair.



**Joost Heemskerk, Renewable Energy Product Line Director**  
**SBM Offshore**

Joost Heemskerk has a background in civil / offshore engineering and strategy consultancy. In the offshore energy industry he has held various engineering, project management and commercial positions in the oil & gas, offshore wind and marine renewables markets prior to his current role as Renewable Energy Product Line Director in SBM Offshore.



**Ole Andreas Heggdal, Chief Engineer / Project Manager DEH**  
**Aker Solutions**

Ole Heggdal has worked 30 years in the subsea industry. Experience within subsea technology developments, umbilical's, power and flow-line heating products. He has a MSc in Mechanical Engineering from NTNU in Trondheim. Ole Heggdal is product manager for flow line heating products and DEH within Aker Solutions.



**Hajo Helleman, Engineering Project Manager**  
**SBM Offshore**

Hajo Helleman has a BSc in Naval Architecture and has started his career with SBM Offshore in 2003 in the Naval department. Since then he has been involved in a variety of offshore vessel designs, FPSO's and FLNG projects as lead engineer, as engineering project manager and in project management positions. Currently he holds the position of senior engineering project manager with SBM Schiedam in the Netherlands. In this position he has been responsible for the initial development of the recent generation 3 FPSO's as well as the development of the Floating LNG concepts SBM has been developing. During the last two years he was fully dedicated to the Fast Forward Program in which he was involved in the design of the standardized floater. From June 2017 he will take the position of technology department manager for SBM in the Netherlands.



**Luc HEME DE LACOTTE, Process Engineer Coordinator**  
**TechnipFMC**

Luc is a graduate engineer from the Ecole Nationale Supérieure en Génie des Technologies Industrielles, Pau, France. He joined Technip France in 2003 and has been working on Upstream oil&gas projects in the onshore, offshore and subsea area. He has gained experience as a process coordinator by working for large greenfield projects in Africa, the Caspian Sea, East Asia and the Arctic. Luc also worked on a brownfield project in West Africa for Total E&P. Since 2013, he has been developing the subsea processing and renewable energy activities for Technip France. He recently was nominated in the TechnipFMC expert network.



**Tatiana Marie Hoeydal, Subsea Systems Team Lead**  
**Shell**

Tatiana Hoeydal is a Subsea Systems Team Lead in A/S Norske, previously filling roles of Shell Project Engineer in the Draugen Infill project and Sr. Subsea Systems Engineer. She joined Shell in 2011 as Delivery Lead for Draugen Subsea Pump Package. Tatiana has previous industry experience from Project Management, R&D and Subsea Engineering. She holds a Mechanical Engineering degree from State Dnepropetrovsk University (USSR) and training in Project Management.



**Tine Bauck Irmann-Jacobsen, Global Application Owner Watch (FlowManager) Design**  
**TechnipFMC**

Tine Bauck Irmann-Jacobsen is the Global Application Owner WATCH™ Design, a production performance system that provides both design simulation tools and real-time monitoring for the life of the field. She works for Forsys Subsea, a 50/50 joint venture between Technip and FMC Technologies. She is currently Flow Assurance technical lead in the ENI WH 1506 Subsea Multiphase Boosting System delivery. Before transferring to Forsys Subsea in 2015, Irmann-Jacobsen was a field developer and flow assurance specialist at FMC Technologies. She worked with special focus on Flow Assurance and operational challenges in complex subsea production systems for the past 10 years, including the Åsgard minimum flow and subsea compression project (2007–2009), Marlim subsea separation of water and condensate delivery project (2009–2012), Ormen Lange subsea compression study (2006–2014), technology qualification and development of natural convection and active subsea cooling (since 2007–). Expert in development of subsea system conceptual design methodology and multiphase simulation tools for field developments including subsea processing. Cand Scient Fluid Mechanics University in Oslo, 1989, and post graduate studies in oceanographic numerical simulation models, 1991.



**Øyvind Iversen, Discipline Responsible DEH Systems**  
**Nexans Norway AS**

Øyvind Iversen graduated from the University of Newcastle upon Tyne in 1996 as Bachelor with Honors in Electrical Engineering. He has been employed at Nexans since 1997 with special focus on qualifying DEH (Direct Electrical Heating). Since then, he has carried out R&D for the technology as well as being Engineering Manager for delivery projects. He has currently been Engineering Manager with special focus on design of the DEH system for BP's Shah Denis Stage2 project – which by far is the world's largest DEH system. He is now working as Discipline Responsible for DEH Systems within Nexans.



**Karim Jan, Business Development Director**  
**Subsea Integration Alliance**

Originally from England and having graduated in electrical and electronic engineering Karim has held both regional and global sales and commercial roles with some operational responsibilities during a 30 year career in the offshore industry. Currently based in Houston he currently serves as sales leader within the Subsea Integration Alliance through which Subsea 7 and OneSubsea, a Schlumberger company, execute integrated SPS+SURF projects together.



**Jan-Hein Jesse, Owner**  
**JOSCO Energy Finance Strategy Consultancy**

Jan-Hein Jesse an expert on commercial, financial, and technical aspects of the oil & gas industry, offshore marine contracting industry, commodity trading, and the financial investment sector.

Jan-Hein is the founder of JOSCO Energy Finance & Strategy Consultancy, advising oil and gas (LNG) companies, oil services companies, banks, private equity, hedge funds, pension funds, oil trading companies and governments on a wide range of activities related to new business development, equity and debt capital products, finance, M&A, markets, industry trends and price formation in the above-mentioned industry segments. Jan-Hein is working predominantly on long-term / full-time engagements.

His career spans over 30 years including his roles as owner of JOSCO, CFO of Heerema Marine Contractors, Senior Manager at Royal Dutch/Shell, responsible for the execution of large-scale acquisitions and divestments, and new business developments leading transactions over \$1 billion, and Head of the Energy Finance department at ING Bank.

During his career, Jan-Hein has lived in London and in Bahrain. He has travelled extensively (50+ countries) for business reasons, many multiple times, and for extended periods.



**Dr. Jim Kaculi, P.E., Vice President of Engineering  
Dril-Quip, Inc.**

Dr. Kaculi is the Vice President of Engineering at Dril-Quip, Inc. and is responsible for the company global engineering standards and activities. He has over 15 years of experience in design and analysis of a wide-range of subsea drilling and production equipment suitable for HPHT applications used in the oil and gas industry. Has expertise in stress analysis (FEA) and fatigue/fracture mechanics. He holds Bachelor of Engineering Science (Polytechnic University of Tirana), Master of Engineering Science and Doctor of Engineering (Lamar University) degrees in Mechanical Engineering. Was involved in over five years of scientific research in Nanotechnology. He is actively involved with API's standards development and a member of various committees (API SC6, API SC16, API SC17, API SC19, API-17TR8, API-5C5, API-TR12, API-6X, API-16A) and is the chairman of API 17TR7. Serves as AWHM representative to API, is a member of API Committee on Standardization of Oilfield Equipment and Materials (CSOEM), and a member of the US Technical Advisory Group for ISO Technical Committee 67. He is a licensed professional engineer in the state of Texas and has authored several technical papers, including a US patent. Participates in various professional organizations, and is member of ASME-OTC Program Committee. He is the recipient of the 2015 ASME "Arthur Lubinski" Award of Excellence.



**Akshay Kalia, Product Manager, Subsea Manifolds and Tie-In Systems  
OneSubsea, a Schlumberger Company**

Akshay Kalia is the Product Manager for Subsea Manifolds and Connector Systems at OneSubsea and is responsible for strategic marketing, new technology development and standardization for the Subsea Manifolds and Tie-in systems. Akshay has over 9 years of experience in Subsea Engineering and has held various engineering and management positions around the world. Akshay holds a Master's of Science degree in Mechanical Engineering from Purdue University and a Master's in Business Administration from the University of Texas at Austin.



**Romain Klevge, Engineering Manager (Europe, Middle East & Africa) - Coflexip® Products Division  
TechnipFMC**

Romain started his oil and gas career in the Technip Coflexip® Product Division in Houston, dealing with drilling and refining flexible pipes. After a few years in Aberdeen, developing unbonded flexibles for API 17J subsea production applications, he joined the Paris team of Technip Coflexip® Product Division. He is now part of the engineering team working on Well Intervention solutions, LNG pipes as well as unbonded flexibles for drilling, refining and production projects.



**Konstantin Kravets, SURF Project Manager  
McDermott Marine Construction Ltd.**

Konstantin is a graduate of the Russian State University of Oil and Gas in Moscow and the Robert Gordon University in Aberdeen, Scotland. Following graduation his first 8 years he spent working for Halliburton Subsea/Subsea 7 involved in a composite pipe technology, pipeline bundles, rigid pipeline reel lay as well as specification, design and commissioning into service of the Seven Oceans. Subsequently joining Vessel Support Team as a Lead Engineer.

In 2008 Konstantin joined Saipem and worked on a newly awarded Nord Stream Pipeline Project. His project responsibilities involved construction of a Landfall and nearshore section of the pipeline in Russia followed by pre-commissioning of both Nord Stream pipelines.

In 2014 Konstantin joined McDermott Marine Construction Limited as a Project Engineering Manager and since then worked on a number of Front End Engineering Designs for deep water LNG developments, including Fortuna Development FEED.



**Mathieu LARDEUX, R&D Asset Integrity Project Manager  
TOTAL E&P**

Mathieu LARDEUX, MSc. of Engineering from the Ecole Central Marseille France with 14 Years of experience both operational/project and R&D activities within Total E&P.

Mathieu started his career back in 2002 with Total as process surface engineer in R&D, then he attained different roles as operation engineer and project package management in Deep water.

Mathieu has joined the Total subsea technology group in 2013 before joining the Deep-offshore R&D Program late 2016 in charge of the Asset Integrity project including the Subsea Robotics.



**Alain Ledoux, Naval Architect  
TOTAL S.A.**

Alain Ledoux graduated from Ecole Centrale Paris and NTNU Trondheim with a specialization in Hydrodynamic. After more than 10 years as a hydrodynamic specialist leading software development and management design and expertise studies, he joins TOTAL as naval architect focusing on marine operations and mooring systems. He has been involved in several design, installation and replacement of mooring systems. He is also convenor for ISO standard dedicated to station-keeping (ISO 19901-7).



**François LIROLA, SURF R&D Lead  
Saipem**

François LIROLA has a master of science in hydrodynamics and mechanical engineering. He has been working for 7 years in the Innovation and Technology Development department at SAIPEM and is currently in charge of SURF developments. Throughout the years he has been involved in a wide range of innovative development related to SURF with specific focus on fatigue testing, qualification of new products and hydrodynamic behavior of risers.





**Benoît LUDOT, Vice President Deepwater and Subsea  
TOTAL E&P**

Benoît graduated with an honours degree in Mechanical Engineering in 1992. He joined Total in 1994 and began his career as Junior Drilling Engineer. He held several operational positions worldwide: in Argentina as a Drilling Supervisor, in Libya as a Drilling Engineer then Drilling Manager. For couple of years, he was in charge of Drilling Engineering in Indonesia, then managed the Drilling & Completion preparation for several projects. From 2003 to 2008 in Benoît was leading the Drilling & Completion operations of the AKPO Deep Water Project in Nigeria.

Then as the Deputy Vice President of Drilling & Wells, he was assisting the Head of the Division, to support the Affiliates in running their operations, in managing the Total technical standards, in providing the engineering support and the required competent professionals.

In 2014 he was promoted as Vice-President of Drilling & Wells division in Total HQ in Paris.

Since January 2017 he was nominated as Vice-President of Deepwater & Subsea.



**Eduardo LUILA  
TOTAL**

Eduardo LUILA works in Oil and Gas Industry since 2008. In first year of his carrier he worked as subsea inspector followed by the head of subsea inspection position during 3 years in Total E&P Angola.

He is currently head of Topside Inspection Service in Total E&P Angola, managing technology, equipments, data and campaign preparation, inspection tasks as piping inspection, pressure vessels, exchanger, structures, pressure safety devices, non-destructive inspection methods topsides, etc.

Master degree: Industrial and Engineering Management, 2008 - Universidade Técnica Lisboa – Instituto superior Técnico – Lisbonne Portugal.



**Harke Jan MEEK, Chief Commercial Officer  
Heerema Marine Contractors**

Chief Commercial Officer at Heerema Marine Contractors (HMC) since 1 June 2016. In this capacity Harke Jan is member of the HMC Board and responsible for HMC's Business Development, Tendering & Contracts, Engineering and Innovation activities worldwide.

Harke Jan joined HMC in 2012 in a commercial and business development role for SURF projects and was appointed Senior Vice President Commercial in October 2013.

Previously, he worked in Business Development functions for SBM Offshore in Monaco and Jakarta, and on LNG projects for Shell in The Hague and Houston.

He is furthermore Vice-President of the Board of the International Marine Contractors Association (IMCA).



**Olivier MESNAGE, Development Project Manager  
TechnipFMC**

In Technip since 1998

Expert in Flexible Pipe Design

Responsible of the development of new monitoring technologies for flexible pipes

In charge of optical fiber technologies implemented in flexible pipes



**Ronan MICHEL, Solutions Marketing  
Alcatel Submarine Networks**

Ronan is an Electrical & Telecom engineer.

Working for Alcatel Submarine Networks from 1989, he has installed then sold submarine cables worldwide.

From 2006, he started Alcatel-Lucent Submarine Networks diversification in Oil & Gas.

He was currently Product Line Manager Oil & Gas, including DC/FO development and qualification

He is now O&G Solutions Marketing Director



**Anders Martin Moe, Project Development Manager – Floating Production  
Wood Group**

Anders Martin Moe has a Master of Science in Naval Architecture and Marine Engineering from the Norwegian University of Sciences and Technology in Trondheim, Norway. He began his career in the maritime industry working as marine engineer both in the shipping and offshore industry, covering a wide range of projects from High Speed Ferries to FLNG FPSOs. The last seven years he has been working with Floating Production Facilities for the Offshore Oil and Gas industry, and has been involved in several projects for deep waters and harsh environments involving different floating production concepts, including ice breaking FPSO, production semi-submersibles, TLPs and Spar platforms. Anders's main focus is early phase and conceptual design of floating production facilities.



**Amin NASR, Subsea Intervention Specialist****TOTAL E&P**

Amin NASR, BSc. of Electrical Engineering, MSc. of Subsea Engineering from the University of Aberdeen with 18 Years of experience of ROV / AUV / Subsea Tooling / Subsea Robotics.

Amin started his career back in 1999 with Fugro as ROV Engineer, then he attained different roles worldwide as ROV projects and technical manager for projects related to IMR / Construction / Drilling support.

Amin has joined TOTAL's Subsea Technology Group in April 2012, Since then Amin is heavily involved on the development of inspection class AUVs, Deepwater Subsea tooling and subsea Robotics.

**Gary OWENS, Commercial Manager – Saipem Aker Solutions Alliance****Saipem**

23 years' experience in Oil & Gas both upstream and downstream of which 20 years with Saipem.

Starting as a drilling engineer with BP in the North Sea, I moved into operational maintenance in petrochemical plants and project management of refinery turnaround maintenance projects in France and West Africa.

Head of Maintenance and Inspection Engineering Services and then regional manager for MMO services in Asia and ex-Soviet area.

The past ten years I have held commercial roles for Business Development and Commercial acquisition of major EPCI contracts for Subsea Pipeline and SURF infrastructure.

Member of Saipem-Aker Solutions Alliance leadership team from its inception in Jan 2016.

**Francois-Xavier PASQUET, Subsea Production Engineer****TOTAL E&P Angola**

Francois-Xavier is subsea production engineer for Brown Field Projects at Total E&P Angola. He was part of the team that started-up the 4 MPPs of Girassol in 2015-2016. His work focuses on subsea related matters, following 7 years of experience in well intervention, process engineering, and onshore gas plant commissioning/start-up.

**Ken Richardson, Executive Vice President, Global Offshore (5+ Year Advisory Board Member)****ABS**

Executive Vice President, Global Offshore 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.

**Luc RIVIERE, R&D Deep Offshore****TOTAL SA**

Luc RIVIERE is graduated from the Paris 'Ecole Supérieure d'Electricité' and from the Paris 'Ecole Nationale Supérieure des Pétroles et des Moteurs' (French Petroleum Institute).

He began his career in Field Operations in Total working within different subsidiaries especially Gabon, the Netherlands, and Congo.

In 1998, he was nominated Petroleum Engineer for offshore Congo (Nkossa, Moho-Bilondo), then for the Block 17 in Angola and finally for the Pazflor project.

After working during 8 years as a Petroleum Engineer in the R&D Deep Offshore project, he was appointed in 2014 as senior advisor for all the development studies related to Deep Offshore.

**Anil Sablok, Chief Engineer, Offshore Technology Services****TechnipFMC**

Anil Sablok is Chief Engineer of Offshore Technology in TechnipFMC. He holds a Bachelor's degree in Naval Architecture and graduate degree in Ocean Engineering. He has more than twenty-five years industry experience working in Naval Architecture, Hydrodynamics, Floating Structure Sizing, Structural Analysis and Design, Riser Analysis and Design, Mooring Analysis and Design, Jacket and Topsides Structural Design, Cathodic Protection, Foundation design, Fabrication and Installation of Platforms, Moorings and Risers. He has

managed and has been Chief Engineer on various large projects in Technip. He has designed multi-piece offshore structures that were joined in water either vertically or horizontally. Has worked on different conceptual design and FEED of floating structures including planning and execution of model tests. As a Chief Engineer, he is responsible for reviewing and approving the design of the floating structures in TechnipFMC.

**Gregor Scott, Business Acquisition Director****Ocean Installer**

Gregor gained his BEng (Hons) in Naval Architecture from the University of Strathclyde in 1995. Since then has been working in the oil and gas industry for over 20 years. Starting as a Naval Architect with Kvaerner Earl and Wright he then broadened his experience jobs at Houlder Offshore and Vosper Thornycroft. He then spent 11 years in various positions within Saipem before culminating as Commercial Manager SURF, Gregor joined Ocean Installer when the Aberdeen office opened 2012, where is currently the Business

Acquisition Director.



**Sadia Shaiek, Subsea Process – Separation Technologies Development Manager**  
**Saipem**

Sadia SHAIEK is a graduate engineer from “Conservatoire des Arts et Métiers” in Paris and has 19 years of experience in the Oil and Gas industry.

She began her career with IFPEN (French Institute of Petroleum) within the reservoir engineering department where she was mainly involved in experimental testing of multiphase flows in porous media for improving Enhanced Oil Recovery (EOR) processes, well productivity and injectivity.

Since 2007, she has been working with SAIPEM SA on subsea processing developments, flow assurance & field architecture studies, qualification & testing of innovative systems. She now leads R&D projects on subsea separation technologies.



**Rohit Shankaran, Senior Engineer**  
**2H Offshore**

I have over nine years of experience in Riser, Conductor and Subsea Engineering. Experience includes engineering design of offshore risers and rigid jumpers, integrity management of subsea components and operations of subsea trees. Experienced in analysis and design of risers including Flexible Risers, Steel Catenary Risers, Steel Lazy Wave Risers, Rigid Jumpers, Intervention/Completion risers and Drilling Risers. I have a Master of Science degree in Mechanical Engineering from Texas A&M University and Bachelor of Engineering degree in Mechanical Engineering from Osmania University. I am registered as a Chartered Engineer with the Institution of Mechanical Engineers. I have been with 2H Offshore since 2010.



**Kevin Shellard, SPS Project and Engineering Manager**  
**GE Oil & Gas**

Kevin is an Electrical Electronic Engineer who spent 15 years in defence (Subsea Sonar Systems) before moving into Oil and Gas in 1997. In 2006 Kevin joined GE Oil and Gas as a Project Engineering Manager in Production Control Systems working on Kizomba C, Gorgon and ENI 1506.

In 2012 Kevin transferred from PCS to EPC as System Engineering Manager and Project Engineering Manager on ENI 1506 project developing the further extensions of Mpungi, Vandumbu & Ochigufu.

In 2015 Kevin joined the Fortuna Development Feed team as Project Engineering Manager.



**Johan Slätte, Project Manager WIN / Senior Consultant**  
**DNV GL**

Johan Slätte is the project manager for the WIN project. He works as a Senior Consultant at DNV GL's Renewables Advisory unit in Norway, providing consultancy to a wide range of clients in the renewable sector. He is specialized in offshore wind technology and has worked with the verification of large offshore wind farms UK, Technical Due Diligence services, multiple technical assessments and market assessments for companies, governmental and financial institutions. At DNV GL, Johan has further had a specific focus

on floating wind technology. Previously he was working at DNV GL's Oil & Gas division with structural/geotechnical engineering, mainly working with technical analyses of foundations for subsea structures, wind farms, jackets and pipelines.



**Bjørn Søgård, Segment Director Subsea and Floating Production**  
**DNV GL**

Bjørn Søgård started his career designing subsea trees in 1991. His experience covers system engineering management for large subsea projects as well as leading key technology areas as applied materials and analysis for subsea systems. He has also extensive experience with technology development and R&D. He has been member of several committees for developing international standards for the subsea industry. He is also a member of national organisation (owned by Ministry of Petroleum and Energy) which purpose is to promote future technologies for efficient and safe oil and gas industry.

Bjørn Søgård joined DNV GL 2005 and is today heading business development for subsea, globally.

Bjørn graduated from Heriot Watt University in 1991 with a degree in Mechanical Engineering.



**Bart Steuten, Business Development Manager**  
**Airborne Oil & Gas**

Bart Steuten has over 20 years of experience in the offshore oil & gas Industry. In his current role at Airborne Oil & Gas his responsibility is business development of Thermoplastic Composite Pipe systems in the SURF market segment. Before joining Airborne Oil & Gas in 2011, he worked for Bluewater Energy Services in various roles in concept development, engineering and construction of FPSO's, single point mooring systems and LNG transfer systems. Bart holds a degree in mechanical engineering from Delft University.



**Trond Sundby, Principal Engineer, Pipeline & Subsea Systems  
Petroleum Safety Authority Norway**

Trond entered the petroleum industry in 2000 as a Surveyor with Stolt Comex Seaways (later Stolt Offshore, Acergy and Subsea 7). He started as an Online Surveyor and after a year he progressed to Senior Surveyor. The work was mainly offshore on various ships in the company around the world. In 2004 he took over the position as Onshore Reporting Manager and moved on to pipeline engineering. He left in 2006 and joined the structural integrity department in Petroleum Safety Authority Norway (PSA) as a principal engineer

where he has been working since, mainly with pipelines and subsea systems following up how companies involved in the Norwegian Petroleum Industry is complying with the regulations. He has been greatly involved with pipeline and subsea standards, especially for flexible pipelines and risers and Subsea systems and he is the PSA representative in the Norwegian standards organization expert group for subsea standards and representative in the ISO TC67/SC2/WG6. He also has a great deal of involvement in the HSE-part of the Norwegian Oil for Development program in Tanzania, Mozambique and Ghana.



**Charles Tavner, Commercial Director  
Magma Global**

Charles Tavner is Commercial Director for Magma Global. He has an engineering degree from the University of Cambridge. Prior to Magma he led energy investments for a UK listed venture capital business, IP Group.

Charles is also a member of the Technology Leadership Board, set up by UK government to drive technology adoption in the North Sea as well as a non-executive director of M-Flow, an innovative water-cut meter business.



**Stéphane Taxy, Subsea Technical Manager  
Doris Engineering**

Stéphane Taxy is the head of the subsea group in Doris engineering with 20 years of experience in oil and gas industry. He has been involved as engineering manager or project manager in numerous projects for offshore deepwater oil & gas development. He is currently managing pre-projects for various operators in conventional offshore and deepwater regions.



**Roland E. Teixeira de Mattos, CEO, GE Benelux & MD, GE Marine Europe  
GE Oil & Gas**

Roland Teixeira was appointed Country CEO, GE Benelux in June 2011.

In this role, Roland Teixeira is responsible for developing and leading GE's regional strategy and cross business initiatives and represents GE in interface with public authorities, strategic customers and stakeholders. Roland Teixeira Chairs GE's Benelux Board and is President of the Benelux Commercial Council.

In 2016, Roland Teixeira expanded his role to lead the European Key Account Program at GE's Marine Solutions. GE's Marine Solutions connects the physical and digital worlds, helping maritime customers power, propel, position and predict for operational excellence. GE's Marine Solutions boasts 1400 references dating back to 1920.

Prior to this, since 2008, Roland Teixeira served as Director of GE's operations in the Benelux and European MD for GE's SALT organisation.

Roland Teixeira joined GE in 2003 bringing over 15 years of international business experience, spanning Europe, CEE, CIS, and Asia. Roland Teixeira, a chartered surveyor, member of the Royal Institute of Chartered Surveyors, holds a Real Estate Executive Master from Solvay Brussels School in Belgium.

Roland Teixeira is a member of GE's European Executive Group, sits on GE Energy BV's Supervisory Board and is a member of the following boards: GE Europe NV, GE Renewables Belgium and is Vice President of AMCHAM Belgium.

Roland is 49 and is married to Catherine.



**Mika K. Tienhaara, Head of Upstream Americas  
Sulzer Chemtech USA Inc.**

Mika has worked on various subsea processing studies, managed separation technology qualification programmes and joint industry projects for subsea processing and has more than 20 published papers and presentations from various key industry conferences.

Mika has over the years managed and enabled more than 10 technology commercialization projects and raised considerable industry funding. Mika is presently employed by Sulzer Chemtech in the United States and has a M.Sc. in Mechanical Engineering from

Chalmers University of Technology, Gothenburg, Sweden.



**Christophe T'Joel, Flow Assurance Engineer  
Shell Global Solutions**

Christophe T'Joel holds a Ph.D. in Mechanical Engineering from the Ghent University in Belgium. He joined Shell in 2012 as part of the Multiphase Flow team in Amsterdam as a Flow Assurance Engineer. His work has mainly focused on cold low pressure start-up and experimental studies on the Severe Slugging Loop facility looking at Smart Choke operation, multiphase flow splitting and electrically heat traced pipe-in-pipe.



**Helen Tunander, Senior Installation Engineer  
Ocean Installer**

M.Sc. in Mechanical Engineering with 8 years of experience in the subsea installation industry working for Subsea 7 & Ocean Installer; mainly focused on riser and umbilical installations and recoveries in the North Sea. Study and Installation Lead on the Visund SIMOPRO riser replacement project in 2015. Currently Installation Lead for Johan Sverdrup template installations.



**Daniel Vita Vunza, Head of Subsea Field Operations Service Block 17- Angola  
TOTAL E&P Angola**

Daniel Vunza is Head of Subsea Field Operations Service of Block 17 for TOTAL E&P in Angola. He has over 20 years of broad based experience in offshore oil and gas operations (from shallow to deepwater subsea production operations) and in subsea projects including design and engineering background of subsea production systems particularly in subsea control systems. His experience includes also overseeing the manufacturing, assembly, testing and installation of subsea Christmas trees, subsea control systems and subsea interventions.

Mr. Vunza joined TOTAL in 2009. Prior to joining the Company, Mr. Vunza worked for Chevron for 13 years where, he assumed progressively various positions including field operations supervision and management, subsea systems engineer and subsea control system project engineer in projects such as Kuito and Tombua Landana. Mr. Vunza is an electromechanical engineering graduate from Jean Piaget University of Angola and earned his MBA degree from the American Intercontinental University of Houston Texas. He is a member of Sigma Beta Delta – International Honor Society for Business, Management & Administration, SPE and ASME.



**Paul Watson, Director of Business Development UK & Europe  
Ocean Power Technologies**

Paul Watson joined Ocean Power Technologies in August 2012 as Director of Business Development UK & Europe. Paul has worked in technical and business development roles for a number of major companies in different market segments. Paul now uses this wide experience and knowledge to help companies transfer their innovative technology to new markets by creating alternative solutions to existing challenges



**Dieter Wijning, Product Manager Drilling  
Huisman**

DIETER WIJNING has served as Product Manager Drilling at Huisman since 2009, where he is responsible for developing the drilling product portfolio. He designed the fundamentals for the LOC land drilling units, the Noble Globetrotter drill ships, the Orion semi-submersible, the new HuisDrill 12000 eXtreme deepwater drillship and other units.

Mr. Wijning joined Huisman in 1998, in the Mechanical Department, before being promoted to department head of the Concepts Design Group. There, he designed the concept of multiple onshore and offshore projects. He holds a degree in mechanical engineering from the Leeuwarden Institute of Technology. He also holds a number of patents and has written various articles.



**James Young, Chief Technology Officer  
JDR Cable Systems Ltd**

James joined JDR in 2000 as senior design engineer for new product development, working on new high pressure and deepwater hydraulic hose lines. He has worked extensively on intervention workover control umbilicals, thermoplastic and steel tube production control umbilicals and subsea power cables for offshore oil and gas projects. James led the design of JDR's first 33 kV renewable energy cables supplied for the Beatrice 5MW Offshore Wind Demonstrator in 2007, before leading design and development work on several large offshore wind farm array cable projects. He was appointed Chief Technology Officer in 2016 after a series of technical management roles within the business. Prior to JDR, James worked for BICC Supertension and Subsea Cables, where he designed and developed HV AC and DC cables from 66 kV to 400 kV. James has a degree in mechanical engineering, is a Chartered Engineer and has an MBA from Cranfield.



**Polina Zabelina, Project Engineer  
BP**

Polina Zabelina currently is a project engineer supporting BP's Head of Upstream Engineering to implement the upstream engineering strategy, as well as to drive collaboration with other operators to progress standards and standardisation across the industry.

Polina obtained a chemical engineering degree in Omsk (Russia) and started her career as a corrosion engineer with ExxonMobil on Sakhalin-1 project. In 2012, Polina joined BP as a corrosion engineer and was recognised for her work on improving the erosion management across BP with a Tallow Chandlers Award (2014). She was also a winner of the WeAreTheCity 'Top 50 Rising Stars' awards in 2015. Polina is a chartered corrosion engineer, Institute of Corrosion committee member, STEM ambassador and Queen Elizabeth Prize ambassador.



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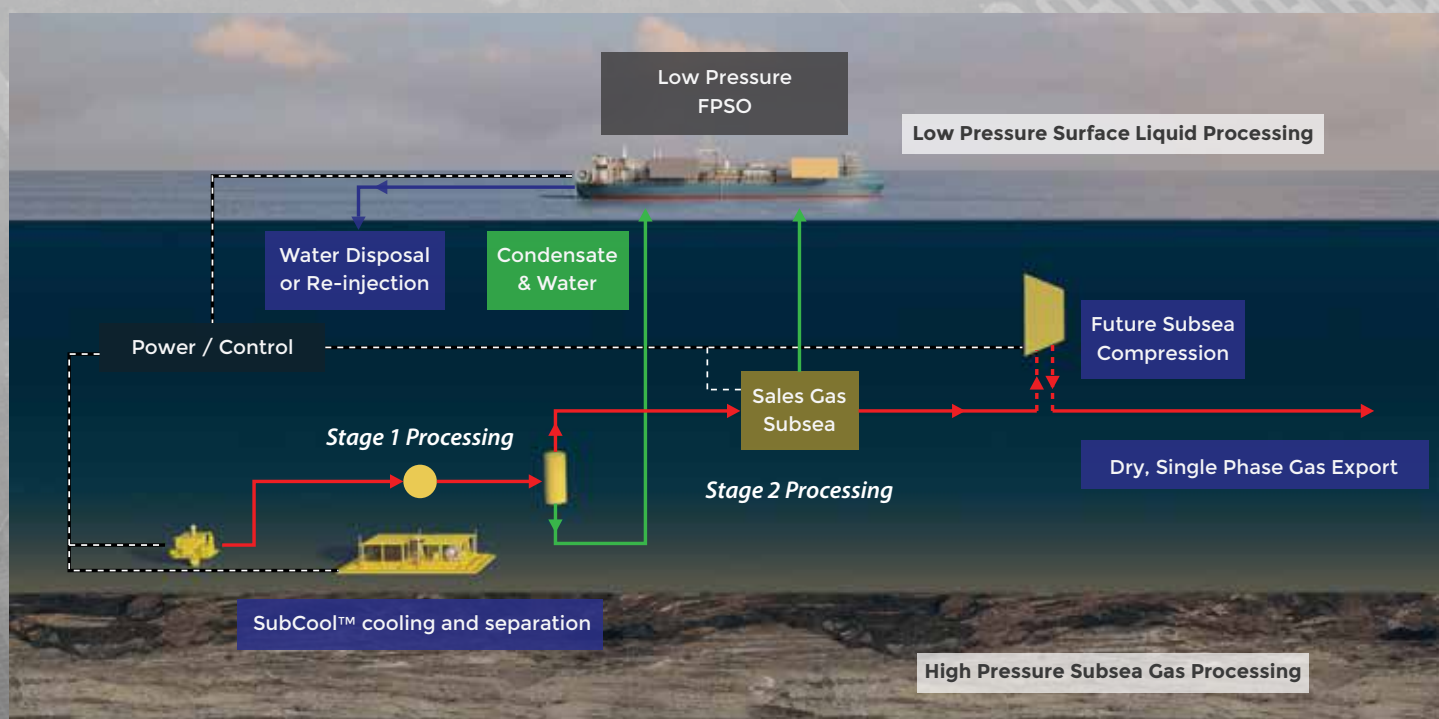
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**Not subsea, not surface, but a unique and fundamentally more efficient “Hybrid” Solution**



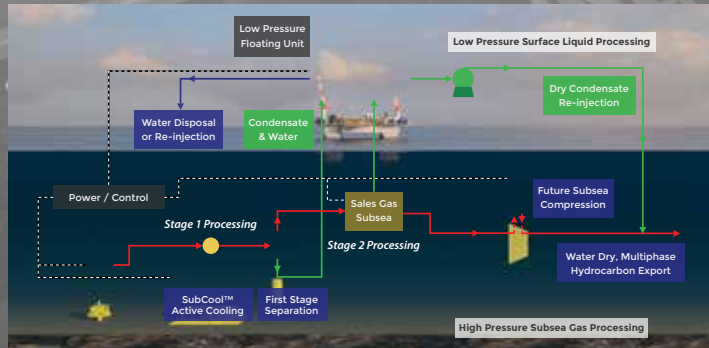
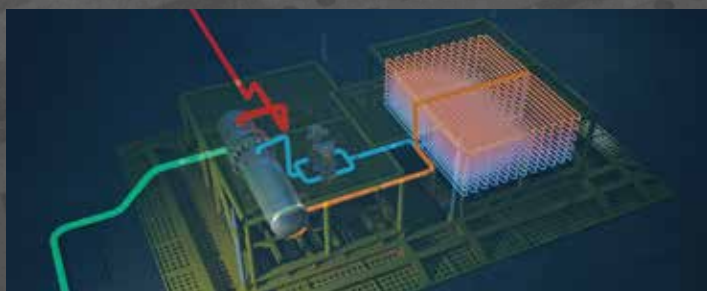
#### Subsea Dehydration using the ‘cold’ on the seabed

The high pressure gas is fully processed subsea in two stages, including active cooling and separation, followed by subsea dehydration.

- Using Inline separation offers further cost reduction potential.

The liquids are processed on a compact, low pressure surface facility. Heat is required for liquid separation and stabilisation, and this is most efficiently undertaken on the surface.

Surface gas processing, with larger risers, high pressures, and heavier equipment, is much more expensive than surface liquid processing.



- Operator can select preferred surface option; including semi-sub or circular FPSO.
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**Contact** Richard Moore  
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## ABS (Conference Technology Sponsor)

ABS, the world's leading offshore classification society, develops standards for the design, construction and operational maintenance of offshore assets. Its mission is to serve the public interest as well as the needs of clients by promoting the security of life and property and preserving the natural environment.

Since providing the first classification services to the industry in 1958, ABS has remained at the forefront of offshore development, creating industry standards for safety and providing technical guidance. Through four operating divisions and more than 65 offices strategically placed around the world, ABS provides a global network of skilled surveyors and engineers who offer support from the initial design concept through the design approval process, during construction and throughout the service life of the asset.

As offshore development extends into deeper water and more remote and harsh environments, ABS is providing technical guidance and practical advice to meet the industry's evolving technical and operational challenges. ABS engineers bring unparalleled experience across the sector to technology centers around the world, where R&D projects are tackling challenging issues in search of ways to push beyond the limits of today's operations.

Acknowledged as an offshore technology leader, ABS contributes to the advancement of the industry.



## Airborne (Associate Sponsor & Stand #309)

Airborne Oil & Gas, manufacturer of fully bonded, Thermoplastic Composite Pipe (TCP) for the most demanding offshore and subsea applications. TCP is a fully bonded solid wall pipe with glass or carbon fibre reinforcements, completely embedded within the thermoplastic material. The pipe's inner liner, composite laminate and external coating are all melt-fused, ensuring a bond between the layers., strong as the base materials. The result is a strong and robust spoolable pipe, manufactured in continuous lengths, completely impervious to corrosion and with unsurpassed toughness, impact resistance and residual strength.

TCP is being used by a fast growing number of Oil and Gas Exploration & Production companies and Oil Field Service Companies, in applications ranging from ultradeep Subsea Well Intervention and Plug & Abandonment to permanently installed Flowlines. The intrinsic properties of the technology offer a step-change in benefits in four areas: 1) 30% reduction in total cost of installation for flowlines; 2) complete elimination of flowline and riser corrosion; 3) enablement of high flowrate subsea intervention; 4) dramatic weight reduction for ultradeep riser systems.

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**Aker Solutions™**

## Aker Solutions (Diamond Sponsor)

Aker Solutions is a global provider of products, systems and services to the oil and gas industry. Its engineering, design and technology bring discoveries into production and maximize recovery. The company employs approximately 14,000 people in about 20 countries that embrace innovation and collaboration in a drive to create a sustainable future.

From subsea to surface and concept to decommissioning, Aker Solutions' technical expertise and strong partnerships provide energy companies what they need to succeed. Combined with the its long history of engineering for the most challenging environments, the company's approach delivers superior performance for customers and shareholders worldwide.



**Boskalis**

## BOSKALIS (Silver Sponsor)

Royal Boskalis Westminster N.V. is a leading global services provider operating in the dredging, maritime infrastructure and maritime services sectors. The company provides creative and innovative all-round solutions to infrastructural challenges in the maritime, coastal and delta regions of the world with services including the construction and maintenance of ports and waterways, land reclamation, coastal defense and riverbank

protection. In addition, Boskalis offers a wide variety of marine services and contracting for the oil and gas sector including the development, construction, transport, installation, subsea inspection, repair & maintenance (IRM) and decommissioning of offshore and onshore facilities (through Boskalis, Dockwise, Fairmount and VBMS) and offshore wind industry as well as salvage solutions (through SMIT Salvage). Furthermore, Boskalis has a number of strategic partnerships in harbour towage and terminal services (KOTUG SMIT Towage, Keppel Smit Towage, Saam Smit Towage and Smit Lamnalco). With a versatile fleet of 1,000 units Boskalis operates in around 75 countries across six continents. Boskalis has over 8,200 employees, excluding its share in partnerships.



## Calash (Stand #214)

Calash is an award-winning strategic advisory firm having completed over 600 projects globally. The company maintains a dedicated focus on the energy sector providing strategy, business advisory and mergers & acquisitions support services. Calash also provides a full range of strategy products to help create a robust, fact-based strategy, support outstanding execution and deliver value growth. Calash is comprised of a team of

energy industry experts that have deep practical experience of owning and working in service and E&P companies, running day to day operations and growing business value within the energy sector.

The Aberdeen office remains at the heart of our capabilities but new offices have been opened in London in 2012, Sydney in 2013 with a notable expansion in The Americas in 2016 from both Houston and New York. Complementary expertise was added during 2015 with the commencement of Calash Analytics and Calash Environmental. Our sister company, Candour Energy ([www.candour.com](http://www.candour.com)) provides access to unparalleled global knowledge of the upstream and midstream energy markets.

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Web: [www.cathxocen.com](http://www.cathxocen.com)

## CATHX Ocean (Stand #112)

Cathx Ocean is an advanced engineering company specialising in the design, development and manufacture of advanced automation and robotic vision technologies for subsea operations.

The company is based in Ireland with additional office locations in the UK and the USA.

The Cathx system includes camera, laser profiler and strobe lighting with multi source sequential imaging, providing high-resolution co-registered stills, mosaics and 3-D point cloud data sets.

Cathx Ocean products are used in deep water drones and observatories to perform precision measurement and automatic object recognition using machine vision technologies in some of the toughest environmental conditions on earth.

At MCE Deepwater Development, Cathx will showcase their laser based optical pipe tracker and also present high resolution 3D colour point cloud of subsea pipelines and structures captured on recent ROV and AUV surveys using the Cathx L1000 laser profiler and still imaging system. Visit us at stand 112

C-Kore Systems Ltd.  
Main Street  
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www.c-kore.com

### C-Kore Systems (Stand #205)

C-Kore is a fast-growing, innovative UK company passionate about making life easier for subsea engineers by bringing fast, modern and reliable testing techniques to the offshore industry.

Their C-Kore subsea measurement tools save customers money while providing fast and accurate data, measuring insulation resistance (IR) and confirming the integrity of subsea cables.

By automating testing and keeping all the test apparatus within a sealed, depth-rated housing, C-Kore accelerates testing and brings consistency and repeatability to the testing process. Adverse environmental conditions or changes in personnel do not affect C-Kore as they would a manual testing process and, because C-Kore de-skills the testing process, it can be used by regular vessel personnel. All of this allows substantial vessel time savings. C-Kore was designed specifically to speed up and simplify subsea testing and in the process give far more accurate data readings. For too long fault-finding and installation tasks have relied on error-prone manual measurement, using down-lines of dubious condition or burdensome platform-led testing. C-Kore eliminates these problems, allowing testing to be completed much faster by automating the entire testing process, saving days of vessel time.

### COLDPAD (Stand #100)

COLD PAD provides innovative solutions designed to enhance the reliability of structural bonding for the Offshore industry and especially FPSOs (maintenance and life extension).

COLDPAD solutions include hull & deck repairs through cold work techniques allowing to both maximize production uptime (several Millions USD savings/year/FPSO) and better manage POB (improved planning and lower risk/contingency) compared with standard hot works (crop and renew).

We address corrosion-induced issues like plate thinning and also fatigue life extension for the hull, deck, side shells, longitudinal or transverse frames as well as Crude Oil Tanks / Sea Water Ballast Tanks.

Our product & services portfolio ranges from bonded structural reinforcements, through bonded mechanical connectors or others tailor-made products, always using "cold work" techniques

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### EVOLLEN (Supporter)

EVOLLEN: Entrepreneurs and Professionals from Oil & Gas to Energy Futures

EVOLLEN network brings together some 1,350 members (250 corporate members and 1,100 individual oil and

gas professionals). Their areas of expertise cover the entire oil and gas sector (exploration, production, storage, refining, and distribution) and renewables.

EVOLLEN aims to promote the technological and industrial excellence of the French hydrocarbons industry and energy futures across the world and to foster the international deployment of French energy industry companies, in particular small and medium-sized enterprises.

With the advent of globalised economic competition, the EVOLLEN association is doing everything it can to promote its corporate members and to foster their industrial and commercial development all over the world. It acts as an enhanced back-up force that supports the international development of its corporate members

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p.perreau@evollen.org  
www.evollen.org

### Fugro (Stand #213)

Fugro is the world leader in providing Geo-intelligence through Site Characterisation and Asset Integrity solutions. Fugro offers services globally across 62 countries.

Visit our stand to find out about innovative and cost efficient technologies that support the development and integrity of deepwater assets.

Seabed Seismic Data Acquisition

The Case Abyss™ Ocean Bottom Node Acquisition System images blind spots of conventional acquisition methods. Nodes are cable-free and firmly coupled to the seafloor. A new multi-node handling system provides efficient deployment in both congested and open water areas. The compact Manta® Fully Autonomous Multicomponent Seabed Seismic System acquires seismic data at up to 3000 meters water depth.

Asset Inspection

SeaStriper® offers significant time-savings and high levels of accuracy for inspection of offshore assets. Ultra-dense, very precise point cloud of complex subsea components and structures are digitized from a laser stripe observed by 2 cameras.

Tooling Intervention

Fugro also designs and manufactures complete tooling packages and provides a full aftermarket service including field support. Specialities include high torque applications, multi-functional skids, subsea distribution & workover systems, and bespoke connection systems. An extended range of torque tools from class 1 to class 7++ offers total versatility for all classes of rotary actuator.

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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. Headquartered in Leiden, its services encompass engineering, planning, logistics, project management and execution of projects all over the world. HMC is proud of its excellence in project management and engineering, its passionate workforce and a fleet that includes formidable

heavy lift and deep water construction vessels.

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### Huisman (Associate Sponsor & Stand #108)

Huisman, founded in 1929, is a worldwide operating company with extensive experience in the design and manufacturing of heavy construction equipment.

Our product range can be subdivided into six main categories: Cranes, Pipelay Equipment, Drilling Equipment, Winches, Vessel Designs and Special Projects. Products vary from stand-alone components to highly engineered integrated systems, from concept to installation and life time support.

Reliable Partner

Due to our strong belief in partnerships with our clients, our commitment to finding new technical solutions and our dedication to delivering turnkey projects, we are internationally valued as a solid, reliable partner. Our extensive track record and the large number of long-lasting client relationships prove that we deliver state-of-the-art equipment, fully tested, within schedule and ready for commercial operation.

Turnkey Delivery

Our in-house design and engineering expertise, in combination with our production, testing, commissioning and installation facilities, enable us to

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deliver custom-designed equipment on a turnkey basis.

#### Innovative Solutions

We are constantly working on new solutions and systems which we believe add value to the market's existing technologies. These innovations are implemented into many of our products. As we have extensive operational experience with a wide variety of heavy construction equipment, we are able to use the best solutions for new products and projects.

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#### iPS - Powerful People

iPS offers employment of multinational personnel worldwide. Since 1988, iPS has been supplying personnel to the international Maritime and Dredging industry and is renowned as a qualified point of contact. Over the years iPS has expanded its expertise into other sectors which include Offshore, Oil & Gas and Tunnelling. Bringing people together in these industries is what we do. We are dedicated to build relationships. iPS – Powerful People's headquarters is in Capelle aan den IJssel, near Rotterdam, the Netherlands and we also have a wide range of overseas offices and agencies in, amongst others, the UK, United Arab Emirates, Mexico, Germany and Lithuania.



#### IRO (Supporter)

IRO- THE ASSOCIATION OF DUTCH SUPPLIERS IN THE OIL AND GAS INDUSTRY AND OFFSHORE RENEWABLE INDUSTRY  
The Oil, Gas and Offshore Renewable supply industry in the Netherlands belongs to the Top 5 of the world.

Established nearly half a century ago, the association IRO is an independent non-profit organisation that supports and promotes the interests of its nearly 450 member companies.

Acting as the gateway to Dutch suppliers in the energy industry, the IRO mission is ultimately aimed at maintaining and strengthening the position of the Dutch Oil, Gas and Offshore Renewable industry by creating a level playing field for its members. A sharp focus on cost efficiency, innovation and sustainability within the Dutch supply industry are instrumental to achieve this goal.

The IRO members consist of a wide variety of both multinationals and SMEs. They represent the entire supply chain within the Oil, Gas and Offshore Renewable industry, with activities covering: Engineering & Consultancy, Construction & Fabrication, Plant & Equipment Supply, Contracting & Installation, Exploration & Production and Personnel & HSE, both for offshore upstream oil & gas and offshore renewables (wind and marine energy).

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#### Koso Kent Introl (Stand #305)

Based in Brighouse West Yorkshire UK, Koso Kent Introl is owned by Nihon KOSO Co. Ltd of Japan, a global leader in the controls and process automation systems market.

Originally formed in 1967 under the name Introl Ltd, the company has evolved over the years, becoming stronger with each change and better positioned to meet the demands of a constantly changing Oil & Gas marketplace.

Maintaining the highest standards of quality throughout design, production and customer service Koso Kent Introl Limited specializes in the supply of Subsea Choke and Subsea Process Control valves as well as Topsides standard service control valves, severe service control valves, high-technology surface choke valves and high-performance rotary valves for the oil and gas, petrochemical and power industries.

Koso Kent Introl Limited products are engineered by highly qualified and experienced personnel and our plant is accredited in accordance with Quality Management System ISO 9001 / TS 29001, API 17D, API 6A monogram and Environmental Management System ISO 14001 / ISO 18001. All products, where applicable, conform to ATEX, PED and all other applicable EU Directives and CE marked accordingly.

Our standard manufacturing experience includes NACE MR01.75, NORSOK, API 6A and individual customer specifications.

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#### Landing String Solutions (Stand #311)

Landing String Solutions can provide the means you need to drill deeper wells in deeper water from existing rigs. Our patented buoyancy modules employ Archimedes' Buoyancy Principle to offset the weight of the landing string by up to 80% and decrease hook load.

Enhanced Safety and Reduce overall hook load, Reduce or eliminate risk of slip crushing. Allow Pre Generation 5 rigs to safely drill deeper wells in ultra Deepwater environments, May reduce string weight to land out while on motion compensator

##### Innovative Design

Modules are placed on drill pipe tube, covering all but what is necessary for pipe make up and handling. Clamp-on/clamp-off design allows landing string to be made up with minimal additional rig time. Cone Clamp System prevents modules from slipping on the drill pipe. All components are Constructed of non-metallic material.

Applications are Long casing strings on Deepwater floating rigs, Long drilling liners, Long tiebacks, Heavy and delicate completions strings, Single long casing vs liner/tieback and Inner Strings

##### Clients

- Chevron, USA
- Anadarko

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chris@landingstringsolutions.com  
www.Landingstringsolutions.com



#### Magma (Diamond Sponsor)

With offices in the UK, US, Angola, Malaysia and Saudi Arabia, Magma Global clients include leading international oil and gas companies, contractors and engineering consultants.

Magma Global is the manufacturer of m-pipe®, a high performance carbon fibre and Victrex PEEK polymer thermoplastic composite (TCP) pipe. One tenth the weight of equivalent steel or non-bonded flexible pipe, m-pipe® is the world's most reliable subsea pipe for the offshore oil and gas industry.

With applications for subsea risers, jumpers, tiebacks, flowlines, flying leads and downlines, m-pipe® has superior properties versus equivalent steel and non-bonded flexible pipe, including higher fatigue strength, lower weight and better corrosion resistance, ensuring its integrity in the harshest deep water, HPHT and sour service environments.

m-pipe® has also been proven to significantly cut the cost of oil and gas development and production, by reducing design, transport, deployment and subsea connection and operational capex and opex.

Magma m-pipe® is manufactured in the UK using a fully automated 3D print process, and a facility is also available to meet local content requirements - the Magma In Country Manufacturing Module (ICMM).

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### MechDes Engineering: Equipment Engineers

We offer mechanical engineering skills in special equipment for offshore challenges: concept-, basic- and detail-engineering, structural engineering, extensive experience with classification agencies.

The special equipment we design answers the world's toughest questions, while functioning under the world's heaviest conditions. Our approach results in robust and reliable equipment: automated systems, handling systems, drive systems, chain pullers, traction- and reel winches. Our mechanical engineers have a passion for simple innovative solutions.

Contact: Erik van der Woude, Manager Account & Business Development

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### Oceaneering (Stand #201)

At Oceaneering, we do things differently, creatively, and smarter. As your trusted subsea partner, our unmatched experience and innovative technologies and solutions allow us to adapt and evolve regardless of market conditions. By working together, we will safely and reliably re-shape the future of the oil and gas industry.

We are Connecting What's Needed with What's Next™ as the subsea connection specialist for global offshore operators seeking applied engineering expertise in dynamic and unconventional environments. With our safety-focused and innovative approach, Oceaneering pushes the frontiers of deep water to solve drill support, completion, production enhancement, and decommissioning challenges— from routine to extreme. As the world's largest ROV operator and the leading ROV provider to the oil and gas industry worldwide, our assets include thousands of ROV tools, the largest fleet of IWOCS equipment worldwide, industry-leading flow assurance solutions, and reliable decommissioning equipment.



OneSubsea, a Schlumberger company  
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### OneSubsea, a Schlumberger company (Diamond Sponsor)

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 combines in-house subsurface and production assurance knowledge with field-proven technology and equipment to deliver solutions to the client that can achieve first oil faster, accelerate production and increase recovery to maximize the financial return on investment.

Our unique Pore to Process approach helps provide end-to-end solutions from reservoir to surface, that address client challenges with the goal of optimizing production and increasing recovery.

### OPEN OCEAN (Stand #313)

Open Ocean, a company specialized in Marine Data Intelligence, is developing innovative online solutions which give an easy access to the key metocean data and statistics for offshore projects.

Based on our expertise in ocean numerical modeling, oceanography, and Big Data mining we offer high value products and services both for Oil & Gas and Renewable Energy industries. Indeed, we conceived and developed Metocean Analytics and Metocean Discover, online tools providing with metocean studies based on historical waves, currents, wind and ocean temperature datasets covering the whole globe.

Metocean Analytics offers complete metocean studies with a wide range of statistics, such as operability average conditions, as well as extreme analysis. All statistics are accessible online, and are also easily downloadable in Excel, Matlab or NetCDF. A PDF report generation is also available. Metocean Discover tool is tailored for the bidding stage, and provides with operability average statistics as well as weather windows and downtime estimate.

Both tools are covering all stages of the offshore projects, from bidding to detailed design, giving a fast click-and-get access to the relevant metocean data. We would be glad to show you a free live demo at our booth.

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### Quest Offshore (Conference Organizer & Stand #215)

Quest's mission is to provide market expertise, strategic analysis, market research, marketing communication and consultancy services to the global upstream oil and gas markets. Quest owns and manages MCEDD- Deepwater Development the industry's pre-eminent technical conference on Deepwater Technology, now in its

14th year, held annually in Western Europe. The 2017 event is focused on delivering value, efficiency and flexibility. Quest also is initiating coverage within Alternative Energy with a focus on the offshore wind market sector including the important evolution of Floating Wind Energy (FWE). This effort is badged Quest Floating Wind Energy.

Quest Offshore Consulting provides customized analysis to help businesses, government agencies and other groups make strategic data-driven decisions led from both qualitative and quantitative research and have recently launched a practice in Latin America. Following the sale of Quest Offshore's Data & Subscription division to Wood Mackenzie, a Verisk Analytics business, in the second half of 2016, Quest has expanded its focus on strategy, advisory and management consulting across the full spectrum of the upstream energy landscape, including dedicated strategic due diligence services related to mergers and acquisitions in collaboration with Calash. The partnership works with major financial clients globally, including a specialized focus on U.S. private equity offered by Calash Americas.



### Royal IHC (Associate Sponsor & Stand #303)

Royal IHC: innovative solutions for maritime service providers

In an ever-changing political and economic landscape, Royal IHC enables its customers to execute complex projects from sea level to ocean floor in the most challenging of maritime environments. We are a reliable supplier of innovative and efficient equipment, vessels and services for the offshore, dredging and wet mining markets.

With a history steeped in Dutch shipbuilding since the mid-17th Century, we have in-depth knowledge and expertise of engineering and manufacturing high-performance integrated vessels and equipment, and providing sustainable services. From our head office in The Netherlands and with 3,100 employees working from sites and offices on a global basis, we are able to ensure a local presence and support on every continent. Dredging operators, oil and gas corporations, offshore contractors, mining houses and government authorities all over the world benefit from IHC's high-quality solutions and services. With our commitment to technological innovation, in which sustainability and safety are key, we strive to continuously meet the specific needs of each customer in a rapidly evolving world.

Royal IHC. The technology innovator.

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#### SAipem (Associate Sponsor & Stand #104)

SAipem is one of the world leaders in drilling services, as well as in the engineering, procurement, construction and installation of pipelines and complex projects, onshore and offshore, in the oil & gas market. The company has distinctive competences in operations in harsh environments, remote areas and deepwater. SAipem provides a full range of services with "EPC" and "EPCI" contracts (on a "turn-key" basis) and has distinctive capabilities and unique assets with a high technological content.

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#### Shell Projects & Technology (Supporter)

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.

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#### The Society for Underwater Technology (SUT) (Supporter)

This multi-disciplinary learned society brings together organizations and individuals with common interests in underwater technology, ocean science and offshore engineering. A not for profit company, the SUT was founded in 1966 in London, and has members that include engineers, scientists, other professionals and students working in these fields from around 40 countries. The SUT was formed to promote the further understanding of the underwater environment and to encourage cross-fertilization and dissemination of ideas, experience and information between workers in academic research, applied research and technology, industry and government. In addition, the Society aims to advance the development of techniques and tools for exploring and studying the ocean, encourage proper economic and sociological use of our resources in and beneath the ocean and to further the education of scientists, technologists and engineers working in this field.

SUT branches are located globally in London and South of England, North of England, Aberdeen, Houston, Perth, Melbourne, Brazil, China, Norway, Singapore and Malaysia. Branches offer a significant variety of local events including learning luncheons, training courses, networking events and scholarship fundraising events. The SUT provides scholarships to students at both undergraduate and postgraduate levels through its Educational Support Fund (ESF).

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**TELEDYNE  
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Everywhere you look™

#### Teledyne Oil & Gas (Bronze Sponsor)

Teledyne Oil & Gas, organized in 2009 is a market-focused team with a host of Interconnect solutions for topside/subsea power and data transmission and distribution networks along with asset integrity sensing and monitoring for pipeline corrosion and erosion. In 2016, as an element of Teledyne Marine we have expanded our capability set with a significant range of technology through 16 additional product brands with product lines designed specifically to meet the demanding requirements written specifically for the oil and gas industry with technology solutions for challenges in: Imaging for inspection, recording, survey, mapping & navigation. In Instruments for environmental sensing and monitoring, acoustic communication, acoustic release, navigation and station keeping. In Seismic solutions for exploration survey with seismic source, controllers, interconnect and streamer technology. In Vehicles with a range of USVs, ROVs, Tethered AUVs, gliders, floats and towed vehicles for mapping, survey, data collection, tracking, inspection and monitoring. Together the oil & gas industry focused elements of Teledyne Marine offer a sea of solutions with the continuity benefits of working with one supplier. Along with our research partner Teledyne Scientific, this is Teledyne Oil & Gas.

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**TOTAL**

#### Total (Diamond Sponsor)

Total is a major energy player committed to supplying affordable energy to a growing population, addressing climate change and meeting new customer expectations.

Those commitments guide what we do. With operations in more than 130 countries, we are a top-tier international oil and gas company and a global leader in solar energy through our affiliate SunPower. We discover, produce, transform, market and distribute energy in a variety of forms, to serve the end customer. Demonstrating their commitment to better energy, our 100,000 employees help supply our customers worldwide with safer, cleaner, more efficient and more innovative products and services that are accessible to as many people as possible. Our ambition is to become the responsible energy major.

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#### Wood Group (Diamond Sponsor)

Wood Group is an international energy services company with around \$6bn sales and operating in more than 50 countries. The Group designs, modifies, constructs and operates industrial facilities mainly for the oil & gas sector, right across the asset life cycle. We enhance this with a wide range of specialist technical solutions including our world leading subsea, automation and integrity solutions. Our real differentiator is our range of services, the quality of our delivery, the passion of our people, our culture and values. We are extending the scale and scope of our core services into adjacent industries.

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#### Zetechtics Ltd. (Stand #205)

Zetechtics are 'Global Market Leaders' offering over 70 varieties of Jupiter 2 Subsea Tooling Intervention Control Solutions, all individually adaptable to add 'tailored options' such as sensors, pressure transducers, cameras, lights, High Flow Valve Pack and a range of connectors. Combine this with user configurable software, incredible reliability, multi functionality and unrivalled worldwide support for real value for money.

Our highly accurate (repeatable) API 17D Class 1-4, API17H, Petrobras Style and Class 5 Torque Tools offer seamless integration and advanced features including 'Auto High/ Low Gear Select' and 'Quadrature Sensors', all supported with Deck and Subsea Torque Verification Systems for secondary verification and calibration.

Our latest products include:

- 'Subsea Graphical Data logger' with 32GB storage, Analogue and Digital sensor inputs, LCD display and many advanced features (adding to our existing Subsea Sensor range).
- ICM (Inline Contamination Monitor for hydraulic circuits) providing visibility of hydraulic contamination, water ingress (RH), temperature and low flow during operation of your subsea vehicle.
- Jupiter IO, Subsea 24 port Ethernet Switch / hub and Data Multiplexor, via dual redundant 1GB fibre to the surface, in addition providing conversion for video signals, RS232, RS422 and RS485, plus much more!



# Innovating together

Ours is a culture of purposeful innovation and deep commitment to clients, of defying convention in pursuit of new possibilities and improved project economics.

We are a global leader in oil and gas projects, technologies, systems and services.

With our clients and partners, we are pushing the limits of technology to ensure the success of today's most ambitious energy infrastructure projects.

Learn more about how we're reshaping the world's energy industry.

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