

# MCE DEEPWATER DEVELOPMENT 2016

5-7 APRIL, 2016

PALAIS BEAUMONT

PAU • FRANCE

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Managing the Downturn  
Through Cost Reductions

*Collaborating to Realize  
Economic Benefits*

Hosted by:



**TOTAL**

# SHOW PROGRAM

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# Host Letter of Support



Dear Colleagues,

The unique dynamics of our current down cycle in the global oil and gas industry requires a structural and fundamental shift in the way we develop our offshore, and specifically deepwater, discoveries. While continuously aiming at improving industry safety objectives, our common objective is to reduce costs significantly in order for deepwater to remain competitive. This will only be achieved through a step change in efficiency which requires reinforced industry collaboration and innovative technologies.

MCE Deepwater Development is a leading industry event focused on bringing together the strategic decision makers within the deepwater oil and gas market. Through a focused technical program, creative networking opportunities and a comprehensive exhibition hall, the event creates a unique opportunity for these members of industry to engage in critical dialogue around the future of our industry.

Considering current market conditions and the long established reputation of MCE Deepwater Development, Total is pleased to host the 2016 event in Pau, France, 5-7 April 2016.

As a key operator in deepwater oil and gas, Total looks forward to taking full advantage of the opportunities provided during MCE Deepwater Development. We hope to continue to engage our current partners, suppliers and contractors as well as having meaningful exchanges with new companies, who can add value by reducing cost and increasing Oil & Gas recovery.

Total continues to reassess how to develop deepwater fields and we will use MCE Deepwater Development as a means to connect with industry specialists and companies who can propose ways for us and our collaborative partners to realize the most meaningful results.

We invite and encourage you and your company to attend and participate in MCE Deepwater Development 2016. Total is actively engaged in the planning, preparation and organization of the event which will be evident in the exhibition hall, the networking events and the technical program.

We value the chance to interface with other operators and members of the supply chain during such a dynamic time of change where such industry dialogue is essential.

We look forward to seeing you in Pau and discussing how the offshore oil and gas market is adjusting to adapt to our current crisis and evolving to become safer, smarter and more competitive.

Sincerely,

A handwritten signature in black ink, appearing to read "AG", with a long horizontal stroke extending to the right.

André GOFFART

TOTAL E&P Senior VP for Development and Support to Operations

Release Date: 9 November, 2015

# Welcome

## WELCOME TO MCE DEEPWATER DEVELOPMENT 2016!

We would like to sincerely thank you for attending MCE Deepwater Development 2016. While times may be uncertain, I believe that those attending this year's event represent those eager to voice their concerns and discuss solutions. Our industry will survive and, eventually, thrive once again. I look forward, over the next three days, to learning what we are accomplishing so that we can continue to work through the challenges we face.

We would like to say a heartfelt thank you to Total for hosting us this year and being such so critical to the direction, content and quality of the event. We would also like to thank our distinguished Advisory Board that continues to maintain the event's relevance to the deepwater space and grow our technical excellence year to year.

This downturn has proved unique to its predecessors and as such the industry is responding with new and innovative approaches as solutions to pave the way for recovery. This year's theme of collaborating to realize cost reductions as a core component of managing this downturn is mirrored throughout the event. This year's technical program brings together some of the strongest and most committed companies in the deepwater space to discuss how working together, focusing on enabling technologies and learning from our experiences will continue to empower us to move beyond current hurdles and realize our future potential. Experts in their field will share their knowledge and hopefully inspire constructive communication among the attendees.

Oil companies, engineering companies and supply chain members will need to collaborate and rely on innovative solutions to maintain the economic viability of the difficult resources we target. MCE Deepwater Development promotes a conducive environment through technical presentations, a comprehensive exhibition floor and numerous networking events that we hope enables further advancement of the fundamental changes we, as an industry, need to undergo in the near-term.

I trust that the next three days will be productive for all. We will meet the challenges that lie ahead and be stronger for it.

John Chadderdon  
CEO  
Quest Offshore Resources

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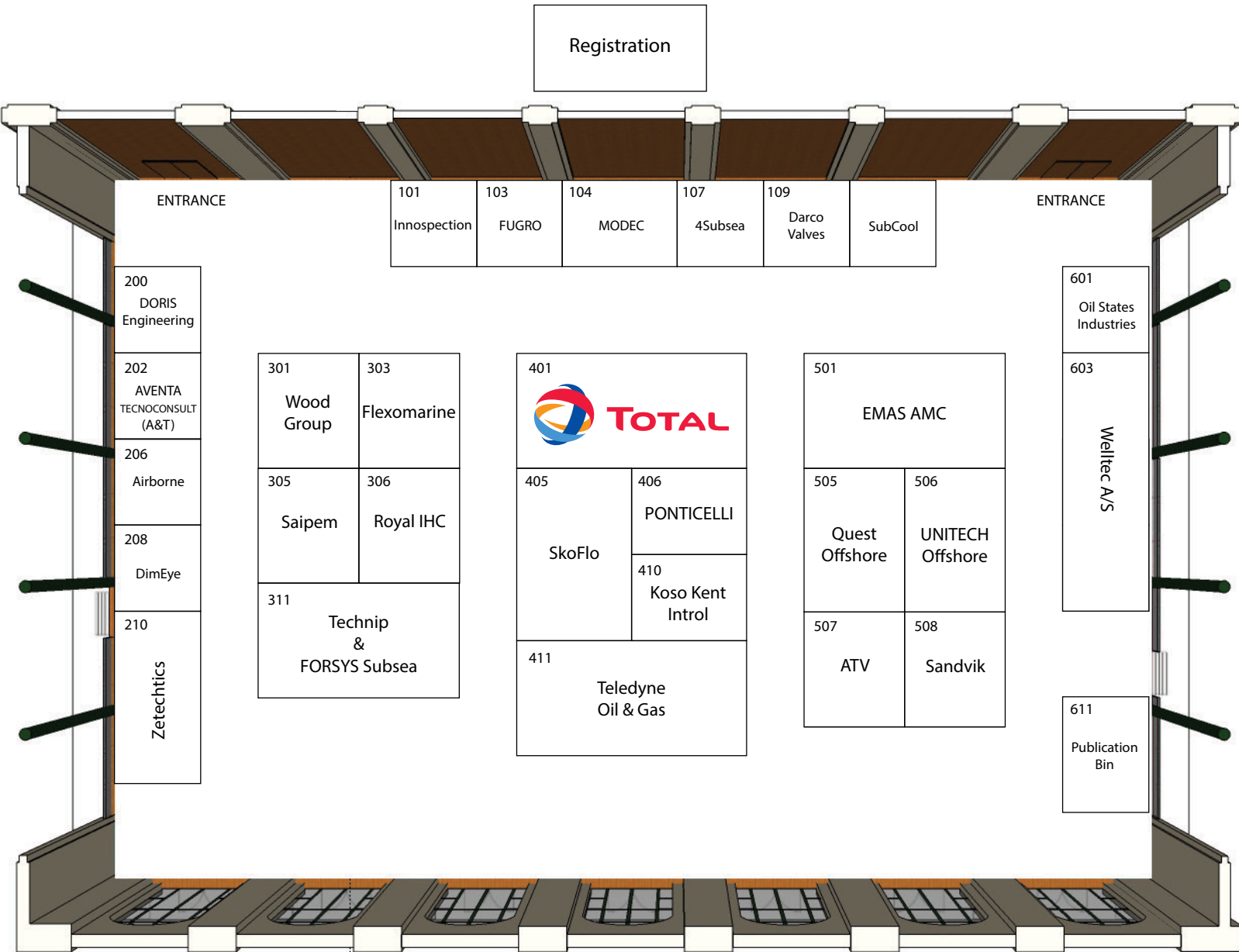
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# Agenda

	Track I: Auditorium Alfred de Vigny	Track II: Auditorium Alphonse de Lamartine	Track III: Adolphe Alphant
<b>Monday 4 April 2016</b>			
08:00 - 17:00	Registration Open (Exhibitors)		
08:00 - 19:00	Space Only & Shell Scheme Set-Up		
17:00 - 18:30	Advisory Board Meeting		
18:30 - 19:30	VIP Reception (Invitation Only) Sponsored by  OneSubsea <small>A Cameron &amp; Solberg Company</small>		
<b>Tuesday 5 April 2016</b>			
08:00 - 19:00	Registration & Badge Pick-Up		
08:00 - 08:30	Space Only & Shell Scheme Set-Up		
8:30	Exhibition Hall Opens		
08:30 - 09:30	Continental Breakfast (Exhibition Hall)		
09:30 - 10:00	Welcome		
10:00 - 12:00	Opening & Scene Setting Panel: Industry Collaboration, Standardization and Efficiency to Reduce Cost		
12:00 - 13:30	Lunch followed by Dessert & Coffee Sponsored by 		
13:30 - 15:00	Industry Collaboration: Standardization in Offshore Design		
15:00 - 16:00	Coffee Break (Exhibition Hall)		
16:00 - 17:30	Deepwater Drilling Costs		
17:30 - 19:00	Ice Breaker Reception (Exhibition Hall) Sponsored by  Quest Offshore		
<b>Wednesday 6 April 2016</b>			
08:00 - 17:45	Registration & Badge Pick-Up		
08:00 - 09:00	Continental Breakfast (Exhibition Hall)		
09:00 - 10:30	Managing the Downturn through Cost Reduction	Gaining Efficiency in FPS Technology	Subsea Monitoring
10:30 - 11:15	Coffee Break (Exhibition Hall)		
11:15 - 12:45	Deepwater Drilling & Completion Advances	Riser Technology	Pipeline Inspection
12:45 - 14:00	Lunch followed by Dessert & Coffee (Exhibition Hall)		
14:00 - 15:30	Deepwater Development Innovation	Subsea Processing: Increasing Production Potential	Life of Field Strategies
15:30 - 16:15	Coffee Break (Exhibition Hall)		
16:15 - 17:45	Deepwater Development Optimization	Floating Production & Mooring Systems	Flow Assurance
19:30 - 22:00	Evening Event Sponsored by  TOTAL		
<b>Thursday 7 April 2016</b>			
08:00 - 16:00	Registration & Badge Pick-Up		
08:00 - 09:00	Continental Breakfast (Exhibition Hall)		
09:00 - 10:30	Powering Subsea & All-Electric Systems	Flow Assurance	Africa Lessons Learned
10:30 - 11:15	Coffee Break (Exhibition Hall)		
11:15 - 12:45	Deepwater Flow Assurance	Deepwater Marine Construction	Deepwater Well Control, Efficiency & Safety
12:45 - 14:00	Lunch followed by Dessert & Coffee (Exhibition Hall)		
14:00 - 15:30	North Sea Lessons Learned	Subsea Processing Feedback & Outlook	
15:30 - 16:00	Awards & Closing Remarks (Exhibition Hall)		
16:00 - 20:00	Exhibition Tear-Down		

# Exhibition Floor Plan



## Arranged Alphabetically

4Subsea.....	107
Airborne.....	206
ATV.....	507
AVENTA TECNOCONSULT (A&T) .....	202
Darco Valves .....	109
DimEye Laser Company .....	208
DORIS Engineering .....	200
EMAS AMC .....	501
Flexomarine.....	303
Forsys Subsea Ltd.....	311
Fugro impROV Limited.....	103
Innospection Ltd. ....	101
Koso Kent Introl.....	410
MODEC.....	104
Oil States Industries (UK) Ltd. ....	601
PONTICELLI.....	406
Quest Offshore .....	513
Royal IHC .....	306
Saipem .....	305
Sandvik.....	508
SkoFlo .....	405
SubCool Technologies Pty Ltd .....	110
Technip.....	311
Teledyne Oil & Gas .....	411
Total.....	401
UNITECH Offshore AS.....	506
Welltec A/S.....	603
Wood Group.....	301
Zetechtics.....	210

## Arranged by Booth Number

Innospection Ltd. ....	101
Fugro impROV Limited.....	103
MODEC.....	104
4Subsea.....	107
Darco Valves .....	109
SubCool Technologies Pty Ltd .....	110
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UNITECH Offshore AS.....	506
ATV.....	507
Sandvik.....	508
Quest Offshore .....	513
Oil States Industries (UK) Ltd. ....	601
Welltec A/S.....	603

# Technical Program

## Session Rooms

**Track I:** Auditorium Alfred de Vigny

**Track II:** Auditorium Alphonse de Lamartine

**Track III:** Adolphe Alphand

## Tuesday, 5 April 2016

- 08:00 - 19:00 Registration & Badge Pick-Up
- 08:30 Exhibition Hall Opens
- 08:30 - 09:30 Continental Breakfast (*Exhibition Hall*)

### 09:30 - 10:00 **Welcome**

- Keynote Presentation by Mr. François Bayrou, **Mayor of Pau**
- Keynote Presentation by Mr. Arnaud Breuillac, President of **Total E&P**
- Welcome by Mr. Paul Hillegeist, President, **Quest Offshore Resources**

### 10:00 - 12:00 **Opening & Scene Setting Panel**

#### **Industry Collaboration, Standardization and Efficiency to Reduce Cost**

*Moderator: David Bloom, Subsea 7*

- Keith Magowan – **BP Subsea** General Manager
- Alf Reidar Johansen, Standards Manager, **IOGP**, “*IOGP JIP33 Standardisation of Equipment Specifications for Procurement*”
- Philippe Gerlach, Deputy Vice President for Technologies, **Total**, “*Cost Reduction – Leaner and Standardised Technical Requirements*”
- Karim A. Jan, Business Development Director, **Subsea 7**, “*Subsea Alliances – Criteria for Value Enhancement*”
- Tassos Vlassopoulos, Global Strategy, **GE Oil & Gas**, “*Improved Efficiency in Deep Water & Utilize Learnings From Other Industrial Sectors*”

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



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

#### **Industry Collaboration; Standardization in Offshore Design**

*Moderator: Darren McQuillan, ABS*

*Co-Moderator: Stephane Montbarbon, SBM Offshore*

- Dr. Hoseong Daniel Lee, Vice President - Special Projects, Technology, **ABS**
- Christopher M. Barton, Sr. VP, Global Offshore Business Development, **Wood Group Mustang, Inc.**
- Nicolas Tcherniguin, Group Development Manager - Business & Technology Offshore, **Technip Corporate Services France**
- Dr. Adri R. Postema, GM Shipping & Maritime - Technology, **Shell Trading and Shipping Company**
- Mr. Jong-Hyun Youn, Vice President, Offshore Proposal, **Samsung Heavy Industries (SHI)**
- Gregoire De Saivre, Head of Conceptual Engineering, **Total**

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

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

#### **Deepwater Drilling Costs**

*Moderator: Chris Barton, Wood Group Mustang*

- Benoit Ludot, Vice President - Drilling, **Total**
- Sachin Mehra, Vice President Asset Management, **Ensco**
- Mr. Kasper Karlsen, Head of Performance Improvement, **Maersk Drilling**
- Igor A. Brucher, Sr. Marketing Manager, **Transocean**
- David Roodenburg, Executive Board, **Huisman**

### 17:30 - 19:00 **Ice Breaker Reception** (*Exhibition Hall*) Sponsored by



## Wednesday, 6 April 2016

- 08:00 - 17:45 Registration & Badge Pick-Up
- 08:00 - 09:00 Continental Breakfast (*Exhibition Hall*)
- 09:00 - 10:30 **Early Morning Session**

#### **Track One: Managing the Down-turn through Cost Reduction**

*Chair: David Bloom, Subsea 7*

*Co-Chair: Chris Barton, Wood Group Mustang*

- Christian Fouillout, Head of Production Operations within Field Operations and Oscar Cadete, Subsea Field Operations Support Leader – Area 17B, **Total**, “*Integrity in Subsea Production Operations / Deep offshore OPEX*”
- Laurent Bordet, Marketing & Technical Support Manager, **Vallourec Drilling Products** “*Innovative Forging Process allows Safer and Cost Effective Heavy Duty Landing String for Deepwater Applications*”
- James Stewart, Director of Technology, **OneSubsea**, “*A new subsea tree system optimizes operational flexibility for life-of-field development with reduced costs and risks*”
- Luc Riviere, R&D Deep Offshore, **Total SA**, “*Subsea Innovation : a key for cost reduction*”



## Track Two: Gaining Efficiency in FPS Technology

Chair: Ken Richardson, ABS

Co-Chair:

- Mr. Jos Leo, Area Business Development Director, **SBM Offshore**, “Challenges and Opportunities for Conversion LNG FPSO”
- Anders Martin Moe, Senior Engineer - Floating Production, **Wood Group Mustang Norway**, “Design exercise for the modification from a MODU to a FPU semisubmersible”
- Vincent Fort, Topside Manager, **Doris Engineering**, “Topsides Brownfield Modifications Projects – How to Optimize Control of Development Costs”
- Benjamin Mauries, Floaters Technologies Development Manager, **Saipem**, “Dry trees for cost effective solution with the Wellhead Barge”

## Track Three: Subsea Monitoring

Chair: Jan van den Akker, OneSubsea

Co-Chair: Sandrine Decarre, GEP-AFTP

- Jean-Paul Couput, Head of Allocation & Metering Group - Expert, **Total**, “Cost effective operation of subsea multiphase meters using remote metering monitoring”
- Sigbjørn Maeland, Business Development & Technical Sales Manager Global Sales and Johannes Vikane, **Siemens**, “Enable the industry to develop an understanding of subsea differential pressure sensor technology for flow measurement and the evolution of subsea sensor technology”
-  Dr. Tom Elson, R&D Analysis Engineer and Stewart Barlow, VP Technology, Europe, **Teledyne Oil & Gas**, “The Development of a Downhole Corrosion Sensor for Condition Monitoring of Electrical Submersible Pumps” (ECE)
- Arnauld Dumont, President, **DimEye Corp.**, “3D High Accuracy Subsea Surveys by Video Laser Scan”

10:30 - 11:15

Coffee Break (Exhibition Hall)

11:15 - 12:45

**Late Morning Session**

## Track One: Deepwater Drilling & Completion Advances

Chair: Jan van den Akker, OneSubsea

Co-Chair: Jens Madsen, Maersk

- Desidério Naegele Rodrigues Júnior, Principal Completions Engineer, **Halliburton**, “Intelligent Completions Technology Successfully Applied to Fast Track Brazilian Pre-Salt Development”
- Paul Hazel, Vice President Well Completion Solutions, **Welltec**, “A new well design and completion concept which reduces capex and increases production”
- Chris Morrissey, Expert Technologist - Energy Lubricants, **BP and Castrol**, “Extreme HP/HT well control – Closing the technology gap”

## Track Two: Riser Technology

Chair: Garry Millard, Flexlife

Co-Chair: Laurent Decoret, Technip

- Ludovic Assier, Rigid Pipeline Specialist, Herve Gueveneux and Carlos Viale, Pipeline Inspection Engineer, **Total**, “Riser base spool oscillation and trenching, its root cause and the determination of the integrity status”
- Ange Luppi and Gilles Cousin, Chief Engineer, **SEAL Engineering**, “Multi-Lines Hybrid Riser System designed for Ultra Deep Waters”
- Eduardo Decnop, Riser Lead and Erich dos Santos, **McDermott**, “Single Hybrid Risers Under Cyclonic Environmental Loads”
- Vibor Paravic, General Manager, **GMC Deepwater**, “Free Standing Hybrid Risers: Technological approach to making them easier and cheaper to install.”

## Track Three: Pipeline Inspection

Chair: Carl-Petter Halvorsen, CSUB

Co-Chair: Trevor Hughes, UTEC Survey

- Sébastien Ghis, Survey Engineer, **Total**, “Record-setting AUV pipeline inspection in deepwater west Africa”
- Stewart Duthie, Manager, Subsea Technology, **Flexlife Ltd**, “Innovative Flexible Pipeline Repair”
- James Rowley, Global Subsea Business Development Manager, **Hydratight**, “Emergency Pipeline Repair Systems; A global overview of best practice”
- Yann Nicolas, Development Project Manager, **Technip**, “In-Service Riser Inspection System (IRIS)”

12:45 - 14:00

Lunch followed by Dessert & Coffee (Exhibition Hall)

14:00 - 15:30

**Early Afternoon Session**

## Track One: Deepwater Development Innovation

Chair: Vibor Paravic, GMC Limited


Co-Chair: Chris Barton, Wood Group Mustang

-  Amandine Idrac, Senior Engineer, Process and Systems, **FMC Technologies**, “How to select the separation solution to maximize the economics of a subsea development” (ECE)
- Luc Heme De Lacotte, Process Engineer Coordinator and Audrey Lopez, Integrated Process Group Lead, **Technip** and Luc Riviere and Jérôme Anfray, **Total**, “Deep Offshore Developments - Subsea / Topsides Integrated Approach”
- Emil Gyllenhammar, Senior Process Engineer and Andreas Ulvestad, PLM Process, **Aker Solutions**, “Deep Offshore Gas Fields A new challenge for the industry”
- Mark Dixon, Chief Operating Officer (Projects & Delivery), **io oil & gas consulting**, “A new approach to offshore project planning”

### Track Two: **Subsea Processing: Increasing Production Potential**

Chair: Philippe Gerlach, Total

Co-Chair: Steve Moulder, KBR

- Rhodri Morgan, Principal Engineer, **DNV GL**, “Standardisation for Subsea Processing - Identifying the key parameters”
- Sadia Shaiek, Subsea Separation Technologies Development Manager, **Saipem SA**, “Subsea produced water separation with SpoolSep: a robust and efficient pipe solution for a wide range of Deepwater applications”
- Marco Gabelloni, Regional Concept Line Manager and Knut Nyborg, Head of Advanced Subsea Production, **Aker Solutions**, “An example of industry collaboration for a joint development: the subsea well stream compression system”
-  Marit Storvik, Manager Subsea Process Systems, **FMC Kongsberg Subsea AS**, “Subsea processing – The importance of early phase to maximize value” (ECE)

### Track Three: **Life of Field Strategies**

Chair: David Carr, Helix

Co-Chair: Garry Millard, Flexliffe

- Jean Vittonato, Head of Corrosion Department, Amin Nasr, Subsea Intervention Specialist and Daniel Byrd, R&D Deep Water, **Total**, “Subsea Pipeline CP System Measurements using an AUV”
- Douglas Stroud, Sr. Vice-President, Global Commercial, **Canyon Offshore**, “Flowline Burial –A tool for new Construction, and enhanced production for late life wells.”
- Paul Yeats, General Manager, DTS, **Oceaneering International**, “Decommissioning - Subsea Abrasive Water Jet Cutting”
- Peter Griffiths, Subsea Discipline Engineering Team Leader and Ross Doak, Subsea Engineer, **Shell UK Limited**; Lee Wilson, Project Manager, **Subsea 7**, “Asset Integrity Assurance and the role of Autonomous Vehicles”

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

16:15 - 17:45 Late Afternoon Session

### Track One: **Deepwater Development Optimization**

Chair: David Bloom, Subsea 7

Co-Chair: Douglas Stroud, Canyon Offshore

- Tine Bauck Irmann-Jacobsen, Global Application Owner Subsea Processing Design, and Tayo Kazeem Awolola, **FORSYS Subsea**, Bodil Hop, **FMC Technologies Inc.**, Roberto Ferrario and Daniele Vanzan, **Tecnomare, ENI**, “Subsea Gas Compression, enabling optimal performance for long tie-back and deepwater”
- Mattias Gillis Winge Rudh, Specialist Engineer, **FMC Technologies**, “High Pressure High Temperature Multiphase Subsea Cooling - A Cost Reducer for Greenfields, an Enabler for Brownfields”
- Henning Hansen, R&D Manager, **Aarbakke Innovation**, “Umbilidrill - A new method for drilling and developing marginal fields and reservoir pockets”
- Ole Heggdal, Chief Engineer, **Aker Solutions**, “Cost efficient subsea tie-back development concept in 1000m water depth and mitigation of hydrate challenges.”

### Track Two: **Floating Production & Mooring Systems**

Chair: Jan Harald Gramnæ, EMAS AMC

Co-Chair: Ken Richardson, ABS

- Marc Cahay, New Technology Offshore Department Manager, **Technip**, “A smart LNG Offloading to Conventional LNG Carriers in Severe Open Sea Environments”
- Styrk Finne Ph.d., **DNV GL**, “Time-domain nonlinear coupled analyses covering typical mooring and riser configurations for FPSOs”
- Hisham Sheriteh, Director of Business Development, **Welaptega**, “The Design Envelope Dilemma: Why Mooring Systems Fail”
- Christian Bauduin and Mauro Bedini, R&D Engineer, **SBM Offshore**, “Development of the ARCA, a diverless chain connector for the high integrity of mooring lines”

### Track Three: **Flow Assurance**

Chair: Laurent Decoret, Technip

Co-Chair: Carl-Petter Halvorsen, CSUB

- Sylvain Denniel, Offshore Engineering Division Manager, **Technip**, “Reeled Mechanically Lined Pipe - A Cost Efficient Solution for the Transportation of Corrosive Fluids”
- Loïc Ancian, Senior Mechanical Engineer, **Vibratec**, “Sensitivity Study of Slug Induced Fatigue in Flow Line Spools”
- Martin Bell, Director of Global Business Development, **Balltec Engineered Solutions**, “Flangeless Subsea PIG and Plug Launcher for Pipeline Intervention”
- Thierry Jahant, Business Development Manager, **Logstor / Rosehill Polymers**, “Development of Innovative Polymer-Alloys Thermal Insulation Systems for Deepwater Pipelines”

19:30 - 22:00

Evening Soirée

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## **Thursday, 7 April 2016**

08:00 - 16:00 Registration & Badge Pick-Up


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

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

### **Track One: Powering Subsea & All-Electric Systems**

Chair: Jan van den Akker, OneSubsea


Co-Chair: Artem Lytkin, Aker Solutions

- Rory MacKenzie, Senior Technical Advisor - Subsea Control Systems, **Total E&P**, "All Electric Subsea Production System" – A World First"
-  • Alberto Villar, Offshore Export Cable Lead Engineer, **AV Energy**, "Electrical power installations for subsea O&G processing" (ECE)
- Andrea Rubio, Product Manager, All-electric Systems, **OneSubsea**, "Reduce field costs and increase functionality with a robust all-electric system"
- Roger White and Richard Osborne, **GE Oil & Gas**, "Electric Actuation: an enabler for Brownfield Asset Integrity & Sustainability"

### **Track Two: Flow Assurance**

Chair: Sandrine Decarre, GEP-AFTP

Co-Chair: Alain Marion, Forsys Subsea

- Thierry Palermo, R&D Flow Assurance Project Manager, **Total**, "Hydrate management - How to cut down costs"
- Geraldine Coudert, Flow Assurance Manager, **Doris Engineering**, "Why Flow Assurance can contribute to deepwater project cost reduction"
-  • Christina Tzotzi, Flow Assurance R&D Engineer, **FORSYS Subsea**, "Safe Hydrate Plug Management Using Active Heating– From Prevention to Remediation" (ECE)
- Christian Fouillout, Head of Production Operations within Field Operations and Diane El-Gemayel, Subsea Specialist, **Total**, "Pigging needs for subsea production lines"

### **Track Three: Africa Lessons Learned**

Chair: David Bloom, Subsea 7

Co-Chair: Aart Ligterink, Imodco

- Christophe Morand, Completion Global Account Leader for TOTAL, **Halliburton**, "Project Management Leads to Zero NPT: How Total E&P Angola and Halliburton Successfully Managed the CLOV Lower Completion Campaign"
- Myles Jordan, Principal Consultant, Oil Field Chemicals, **Nalco Champion**, "Completion Deployed Scale Inhibition Applications in Deep-Water, West Africa"
- Olivia Fachan, Installation Lead Engineer, Technip and Karine Lafontaine, SURF Package Manager, **Total**, "GirRI Phase 2 Project: Assets Installation challenge on a Project Brown Field"
-  • Dr. Alex Argyros, Senior Engineer, and Dr. Tanmay Sarkar, Team Leader - Marine Warranty Group, **DNV GL**, "Technological and Logistical Challenges during Construction & Installation of Deepwater Mega Subsea Development in West Africa" (ECE)




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

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

### **Track One: Deepwater Flow Assurance**

Chair: Jan van den Akker, OneSubsea


Co-Chair: Laurent Decoret, Technip

-  • Moez Trabelsi, Engineer, **ITP InTerPipe**, "Pipe-in-pipe for ultra-deep water – meeting the Operator's requirements" (ECE)
-  • François Lirola, SURF R&D Lead, **Saipem**, "Development and Qualification of an Innovative and Cost Efficient Heat Traced Flowline Optimized for J-laying" (ECE)
-  • Christophe T'Joel, Flow Assurance Engineer, **Shell Global Solutions**, "Heat traced pipe-in-pipe for S or J-lay – proof of concept test results" (ECE)
- Øyvind Iversen, Engineering Manager - Discipline Responsible DEH Systems, **Nexans Norway**; Sasa Durica, **Total EP/DSO/TEC/PLR** and Torunn Clasen, **Nexans**, "DEH for deep water projects. Development and technology comparison"

### **Track Two: Deepwater Marine Construction**

Chair: Vibor Paravic, GMC Limited

Co-Chair: Eric Hansen, Saipem

- Loic Delebecque, SURF Package Manager, **Total**, "Great challenges related to seabed preparation on Edradour Glenlivet pipeline routes and subsea structures"
- Øyvind Lundby, Project Manager, **DOF Subsea**, "Goliat FPSO Marine Installation - Execution Highlights"
- John Meenaghan, VP Global Operations and Lindsay Baxter, Department Manager Rigid Pipelay, **EMAS AMC**, "Experiences from deep water projects using the 'state-of-the-art' reel lay vessel Lewek Constellation and a dedicated Spool Barge for transportation."
-  • Liza Lecarme, Specialist Engineer - Subsea Design and Analysis, Development Lead, **Heerema Marine Contractors**, "Reeling of Pipe-in-Pipe: the (economic) benefits of the greater resistance of PiP systems against local buckling" (ECE)

### Track Three: **Deepwater Well Control, Efficiency & Safety**

Chair: Jens Madsen, Maersk

Co-Chair: Aart Ligterink, Imodco

- Harish Patel, Director – Corporate Offshore Technology – Drilling and Process, **ABS**, “Verification and Validation Challenges of HP/HT BOP and Well Control Equipment”
- Rhodri Morgan, Principal Engineer, **DNV GL**, “Blowout Preventer Functional Safety Requirements; a discussion on the application of IEC 61508, IEC 61511 and OLF GL 070”
- Paul Hazel, Vice President Well Completion Solutions, **Welltec**, “New technology for reducing costs and increasing safety through the elimination of sustained surface pressure”

12:45 - 14:00

Lunch followed by Dessert & Coffee (Exhibition Hall)

14:00 - 15:30

### Early Afternoon Session

#### Track One: **North Sea Lessons Learned**

Chair: Jan Harald Gramnæ, EMAS AMC

Co-Chair: Jens Madsen, Maersk

- Loic Delebecque, SURF Package Manager, **Total**, “Seam welded super duplex tubes for Edradour Glenlivet umbilicals”
- Brian Lynch, Project Manager, **Technip UK**, “BP Quad 204 / Schiehallion UK Continental Shelf Decommissioning Experience”
- Øyvind Iversen, Discipline Responsible DEH Systems, **Nexans Norway AS**; Peter Taylor, SD2 Subsea Controls Team Leader, **BP** and Bent Thomas Denis, Group Leader DEH Mechanical Accessories, **Nexans**, “Skarv DEH, Lessons learned”
- Sigurd Ellingsen Lie, Project Engineering Manager, **EMAS AMC**, “Template installations on Aasta Hansteen field for Statoil - the deepest oil and gas field developed on the Norwegian Continental Shelf.”

#### Track Two: **Subsea Processing Feedback & Outlook**

Chair: Jan van den Akker, OneSubsea

Co-Chair: Steve Moulder, KBR

- Christian Fouillout, Head of Production Operations within Field Operations and Oscar Cadete, Subsea Field Operations Support Leader – Area 17B, **Total**, “Pazflor Subsea Separation and boosting – Feedback after 4 years of operation”
- Arne B. Olsen, Director Sales - ECR, **OneSubsea**, “Setting new records with subsea boosting systems in fields in the Gulf of Mexico, North Sea, and offshore Angola”
- Lachlan McKenzie, Specialist Engineer, Process, **FMC Technologies**, “Subsea separation – an undervalued tool for Increased Oil Recovery (IOR)”
- Øystein Grande, Principal Researcher, Strategic Research & Innovation, **DNV GL**, “Subsea processing drivers and market outlook”

15:30 - 16:00

Closing Remarks and Awards (Exhibition Hall)



- Presentation of Speaker Awards - *Quest Offshore*
- Presentation of Early Career Engineer Awards - *SUT & Quest Offshore*



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.



## Media Supporters



Visit the Publication Bins at Stand #611 to pick up a copy of our Media Supporters' latest work.

# Where to Go in Pau: *A Guide to Local Restaurants & Bars*



## Hotel Parc Beaumont's Grand Prix Café

1 avenue Edouard VII 64000 PAU

Terrasses de Beaumont – situated in the congress centre

The café « Le Grand Prix » is located at one of MCEDD's Host Hotels – Hotel Parc Beaumont – and opens its doors at 11 a.m. everyday to welcome you and to share an agreeable moment between friends around your favorite cocktail or a personal creation of their most talented barmen, along with the Chefs selection of the day. The perfect moment to have a

refreshing drink on the shaded terrace.

Phone: +33 5 59 11 84 00

Café open everyday from 11 a.m. to midnight

## Traditional Restaurants / Brasseries :



### L'Aragon

18 bd des Pyrénées 64000 PAU

Essential and unique view of the Pyrenees . sunny terrace. Welcome, friendliness and pleasures on the plate !!! Downtown

Phone: +33 5 59 27 12 43

### le Boulevard

18 boulevard des Pyrénées 64000 PAU

Restaurant downtown, terrace facing the Pyrenees!

Phone: +33 5 24 36 11 69



### Le Berry

Place Clémenceau 64000 PAU

Pau Institute since 1937. In the city center

Phone: +33 5 59 27 42 95

### Le Café du passage

5 place Reine Marguerite 64000 PAU

Café du Passage located on one of the oldest squares in Pau, pedestrian area . In summer, enjoy a shaded terrace! Downtown

Phone: +33 5 59 06 29 17



## Chez Canaille

3 rue du Hédas 64000 PAU

Located in the heart of the Hédas , large terrace in summer. A friendly place and only a kitchen with fresh , seasonal ingredients . To discover...

Nice summer terrace.

Phone: +33 5 59 27 68 65



## Les Papilles Insolites

5 rue Alexandre Taylor 64000 PAU

50 year Bistro atmosphere , cooking fresh market , revisited the seasons . Wine cellar with more than 400 references in 50 + takeaway alcohol references . Downtown Love the setting, large selection of wines ( wine shop ) , fine food ( a bit pricey )

Phone: +33 5 59 71 43 79

## Le Lavoir

3 r Hédas 64000 PAU

Cozy little restaurant Hédas. Kitchen exclusively fresh Everything is homemade even the bread . In the city At € 25 to € 35. Opening hours: from 19h to 23h Phone: +33 5 59 83 32 62



## La table d'hôte

1 r Hédas 64000 PAU

Very friendly, very good.

Phone: +33 5 59 27 56 06



## Les Pipelettes

3 rue Valéry Meunier, 64000 Pau

Unique menu in the evening , casual, fine dining Phone: +33 5 59 98 88 06

## Gastronomic Restaurants :

### Le Majestic

9 place Royale 64000 PAU

Nice room and good traditional food.

Public garden decor nineteenth revisited between Baroque and minimalism. Private room from 10 to 16 pers. terrace shaded by lime trees . Downtown Adult menu : € 16 / € 19 / lunch 27 € / 32 € / 42 € dinner child menu on request. Open from 2 January to 31 December. Opening hours : from 12 am to 13:30 and from 19:30 to 21:30 Closed : Sunday night and Monday. Phone: +33 5 59 27 56 83



## Ze Bistrot

13 rue Henri IV 64000 PAU

Nice neighborhood , small room , good food.  
Cooking local produce and seasonal variation  
" Bistronomie" "friendly atmosphere " "at home "

Downtown Menu: 18 € ( weekday lunch ) Carte: 41 € to 43 € No children's menu Open from January 2 to December 31, 2016 the afternoon of service from 12 to 13:30 from 19:30 to 21:30 Evening service Closed Monday and Sunday.

Phone: +33 5 59 27 44 44



## Tapas & Wine Bars :



### Les Contrebandiers

12 rue Gachet 64000 PAU

Phone: +33 5 59 80 03 25

### Les Sardines

9 rue Gachet 64000 PAU

Wine bar , tapas, concerts, DJ nights . Bar knife specialties and grilled prime rib . groups of parties with buffet .

Phone: +33 5 59 71 30 84



### Le Vintage Café

11 Rue du Parlement, 64000, Pau, France

"Great food at reasonable prices at the heart of Pau"

Phone: +33 5 59 83 74 78

### Le Grain de Raisin

11 rue Sully 64000 PAU

wine bar with regional meats from small local producers . A wide selection of tapas , terrines, cured meat platter " Home Made " . Large selection of wine by the glass ( forty ) demies- bottles and bottles. heated terrace and 2 bathrooms all of woody atmosphere . Rythm'blues quiet music and rock 50s to 70. Virtual Tour on google. Downtown Tapas " Made – house" and plates 3.50 € to 18 € Open from 1 January to 31 December 2016.

Open daily (except Tuesday ) from 18h to 1:30.

Phone: +33 5 59 82 98 44



**Along the Boulevard des Pyrénées, you will also find pubs and bars facing the Pyrenees :**

Le Winfield, Le Café Russe, The Galway, The Irish Pub

# Ground Transportation

## Shuttle Service

There is a free shuttle named COXCITY. The shuttle is free from 7.30 am out 20.30 pm.

See below COXCITY Free Shuttle Route:



## Ground Transportation

Group Rates: Please contact for rides to and from the airport. Please tell them you are with the MCE Deepwater Development Conference so they will provide the best price possible.

### Taxi Nicolas

Phone number:0033 675 624 293

taxinicolas64@gmail.com



# Advisory Board & Session Chairs

## Chairman



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

### 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™, 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 & 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, Manager of Projects and more recently Project Director on a project 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 the 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 and was awarded Subsea UK's Lifetime Achievement Award in February 2010.



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

Wood Group Mustang, Inc.

Christopher M. Barton is currently Sr.Vice President –Global Offshore Business Development, for Wood Group Mustang, based in Houston where he has responsibility for global business development for WGM's Offshore Business Unit. Chris has over 35 years experience in the upstream oil and gas industry and has also held senior roles with KBR, FloaTEC, Technip, McDermott, ABB and PennWell. Since commencing his career as a Field Engineer with McDermott in Singapore in 1980, Chris has worked in a wide range of roles encompassing Operations, Projects and Business Development in the Americas, Asia Pacific and Middle East. Experience covers all aspects of the upstream industry, including business-to-business publishing, and developing and managing industry events.



**David Bloom, Corporate Business Development Director (10+ Year Advisory Board Member)**

### Subsea 7

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

Europe when they formed McDermott Subsea. In 1998 he joined the Brown Root Organisation as Business Development Manager, responsible for Rockwater, and Brown and Root projects in the North Sea. David has been involved in the growth of Subsea 7 through the integrations of Rockwater and Subsea Offshore: the JV with DSND and lastly the Acergy, Subsea 7 merger. David now holds the position as Corporate Business Development Director responsible for key Company accounts. David brings a great deal of Contractor Subsea knowledge to the industry after his 40 years service.



**Michel Bonte, Vice President Business Development (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.



**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, Senior Vice President Subsea Innovation & Technologies**  
**Technip**

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 beside Paris when it opened early 2013, in charge of coordinating the subsea R&D effort and since mid-2015 holds the position of Senior Vice President Subsea Innovation & Technology Development.



**Sandrine Decarre, Deputy Director CITEPH R&D and Innovation (Session Chair)**  
**GEP-AFTP**

Sandrine has a Doctorate in multiphase flow from the "Insitut National Polytechniques de Toulouse" (France). She worked for two years as Production engineer in Geoservices before joining IFP Energies nouvelles in 1999 to develop multiphase models for three phases flow. She managed projects dealing with Hydrogen, massive energy storage, CO2 transport and offshore floating wind turbine. Today she is in charge of the CITEPH, a private funding program dedicated to upstream O&G research projects.



No Photo

**Xavier DeSouza, Vice President - Business Development E&C Europe, Eurasia & Africa**  
**KBR**



No Photo

**Tom Frijns, Vice President Innovation**  
**Heerema Marine Contractors**



**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 with Brown and Root progressing into offshore project management roles. He then moved into commercial roles of increasing responsibility with Brown & Root, McDermott and Subsea 7. Iain was recently Vice President of Corporate Strategy for McDermott in Houston and has just moved into a new role as VP Commercial for McDermott's Europe and Africa region and

General Manager of their UK office. Iain holds a Bachelor of Science degree in Civil Engineering from Heriot-Watt University and a Masters 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).



**Jan Harald Gramnæs, Senior Specialist Engineer (10+ Year Advisory Board Member)**

**EMAS AMC**

Jan Harald Gramnæs graduated in Naval Architecture/Marine Technology at the Norwegian University of Science and Technology, and has more than 40 years of experience in the offshore oil and gas industry. He held various positions within Aker Engineering AS and Aker

Solutions AS, such as project engineer and manager for the marine technology department. Typical projects were conversion of semisubmersibles and topside transportation and float-over.

In 1995, he moved to Aker Marine Contractors (AMC) Europe region, as Vice President for engineering. Since 2011, he has been with EMAS AMC as Sr. Specialist Engineer, most recent on Ivar Aasen power cable and rigid pipe lay project.

He is married, has two grown up children and two grandchildren.



**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 indepent 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 (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 for Saipem Offshore BU and is based in Paris.



**Trevor Hughes, Global Director of Sales**

**UTEC Survey**

Trevor Hughes is the global director of sales and marketing for UTEC. He joined UTEC in 2006 after more than 25 years in the offshore survey industry. Trevor has worked at every level, from vessel based offshore positions to onshore management then senior roles at Racal/Thales and Century Subsea.

Trevor's career started after his military service. He trained as a boy soldier, graduating from Military Survey College in Chepstow, UK in 1977. Three years in operations with the 42nd Survey Engineer Regiment followed, where he undertook topographical mapping prior to moving to the offshore arena in 1983. Based in Houston, Texas, Trevor leads the sales and marketing teams of UTEC's global effort.



**Frits Janmaat, Vice President Business Development (5+ Year Advisory Board Member)**

**Allseas Group SA**

Frits is Vice President Business Development for Allseas Group SA based out of Châtel-Saint-Denis in Switzerland.

Frits has served in the Oil and Gas industry since 1975 and has held positions ranging from project engineering, project and commercial management, marketing and sales, business development and executive management in the offshore construction segment of the business . He has held engineering and management positions in Leiden and Delft, the Netherlands, London, UK and Houston, USA . Customers include all Majors, all Independents and a majority of the National Oil and Gas companies.



**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.



**Aart Ligterink, Sales Director Terminals**

**Imodco**

Aart started his career in the oil and gas industry in 1980 with Heerema and thus has over thirty (30) years experience. As a Foundation Engineer he worked on many platform installations worldwide. Consequently, he was involved in the development of, amongst others, hydraulic piling hammers and pile lifting tools in the 80's. Since 1994, Aart Ligterink worked as Manager Business Acquisition Department for Seaway Heavy Lifting (SHL). He then progressed to be Business Development Director of SHL in 2013. He has since joined IMODCO as Sales Director Terminals. Imodco is the trusted partner of choice for mooring technology worldwide and builds upon the prestigious SBM Offshore technology, which has been instrumental in pioneering and perfecting terminal solutions. Imodco's technology relies on an accumulative experience of 87 years in the supply of CALM buoys worldwide.



**Frans Pieter Lindeboom, Category Manager 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.



**Artem Lytkin, VP Technology Strategy**

**Aker Solutions**

Artem has joined oil and gas industry back in 2002 as Schlumberger field engineer. He has background in fundamental science and IT. Through the years of work at Schlumberger Artem held various positions including Operations, Sales, R&D, HR and General Management. Artem has joined Aker solutions in 2012 and is currently holding a position of VP Technology Strategy, Research and Innovations. The role covers four main functional areas: global management of intellectual property, technology research, innovation processes and Aker Solutions' technology strategy.



**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 as well as commercial. He has been responsible for the expansion of Maersk Drilling into the Caspian Sea and into the deepwater market and has worked with the Arctic market.



**Alain Marion, Chief Technology Officer (Session Chair)**

**Forsys Subsea**

Alain is currently Chief Technology Officer at Forsys Subsea, the newly created JV between FMC Technologies and Technip. After starting his career as a research engineer with the French Petroleum Institute (IFPEN), he joined Technip where he has held various management positions within technology development, engineering, commercial, operations and asset management. His career spans over 30 years and a majority of that has been at Technip, where he was most recently Group Senior Vice President for Subsea Innovation and Technology.

Alain is a graduate of the Ecole Centrale de Paris and has a Master's degree in Mechanical & Aerospace Engineering from the Illinois Institute of Technology in Chicago (U.S.).



**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.



**Darren McQuillan, VP Offshore  
ABS**

Darren McQuillan, ABS Vice President of Offshore based in the Energy Corridor offices in Katy TX, is responsible for overseeing the Global Offshore Account Manager, the proposal team and Offshore Technical Business Development personnel positioned around the world.

McQuillan has more than 30 years of marine and offshore industry experience in engineering, construction, project execution and operational support.



**Garry Millard, Chief Executive Officer  
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  
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 hold a Master Degree in Offshore Engineering from Ecole Central Marseille in France.



**Steve Moulder, Business Development Manager – Europe, Eurasia and Sub-Saharan Africa (EEA)  
Granherne, Energo, GVA - KBR Technology & Consulting**

Steve has been with KBR since June 2015 bringing a strategic approach to the sales activities in KBR's Upstream and Midstream consulting businesses. Steve now leads the Business Development team for the EEA region working closely with KBR Engineering & Construction Group and Alliance Partners. Steve is also been leading Granherne growth initiatives into new territories worldwide. 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 KBR from 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. Steve joined GE Oil & Gas in October 2010 Prior to this , Steve worked 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 joined BP in November 2005.

Steve started his career as a Technician apprentice and subsequently held roles in various engineering positions before moving to commercial roles in 1999. He has worked for several companies supplying equipment, consumables and services to the Upstream Oil & Gas industry for over 20 years. His experience includes mechanical and process design and project engineering of pipeline valves and automated valve packages, topsides processing systems for crude oil, gas, produced water, solids and water injection including sulphate removal processes, subsea production systems (wellheads, xtrees, E/H control systems, manifolds, connection systems and intervention/workover systems), surface production equipment (wellheads and xtrees) and subsea drilling equipment (BOPs and Risers).

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 in the UK and currently works from KBR office's in Leatherhead, UK



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

Vibor Paravic holds a Masters 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)  
GEP AFTP**

Since 2009, Philippe Perreau has been appointed GEP-AFTP 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, Consultant (5+ Year Advisory Board Member)**

Over 30 years experience in the subsea sector of the oil business from Operator & Service Company sides of the fence. Presently advising SME’s on strategy to meet the current market & to maximise overseas investment opportunities. Recently assigned to Vietnam’s first deepwater development for Talisman Energy, as the Top Tensioned Ris-er, Tree & Wellhead Delivery Manager. The field utilises 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 AX-IS 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 Shet-land forerunner DISPS.



**Mike Read, President  
Teledyne Oil & Gas**

Mike Read is the President of Teledyne Marine, a group of 23 product brands 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 2009.

For the previous twenty years, Mr. Read worked for the Raychem Corporation and ultimately served as the Director of Research and Development of the Telecommunications and Power Division.

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

Mr. Read serves on the Board of Directors of PESA, Deepwater Europe and Team Volusia, CEO Alliance of Daytona Beach and the Executive Advisory Board of Florida Atlantic University.



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

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



**Keith Smith, Construction Delivery Manager – Deepwater Projects (5+ Year Advisory Board Member)**  
**Shell**

Keith Smith is currently the Construction Delivery Manager-Deepwater Projects for Shell, based in Houston, where he is responsible for the construction management of Shell’s new deepwater facilities. Keith has been with Shell for 25 years where he has held various roles in the design, fabrication, transportation and installation of offshore fixed and floating systems. He most recently served as Enterprise Category Manager-Offshore Installation where he was responsible for Shell’s offshore installation global commercial strategies.

Keith has a Master’s degree in Structural Engineering from the University of Texas and a Bachelor’s degree in Civil Engineering from Tulane University. He also holds a Master’s Certificate in Project Management from George Washington University. He is a Registered Professional Civil Engineer and a Registered Project Management Professional. Keith was Chairman of the MCEDD Advisory Committee in 2013.



**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 (Speaker)**  
**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 the GIRASSOL URF package and has since been involved in various large size subsea and floater projects.

He is now Vice President of Operations with Doris Engineering.



**D. R. (Dave) Wilkinson, Senior Subsea Systems Consultant**  
**ExxonMobil**

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

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

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



**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



**Loïc Ancian, Senior Mechanical Engineer**  
**Vibrattec**

Loïc graduated as a Mechanical Engineer in 2002 and began his career as a simulation software support engineer for Dassault Systèmes. After a few years he left to join LMS International (Vibration measurement systems) where he was in charge of pre-sales activities. In 2008 he joined Solidworks (modeling software) reseller as a simulation expert. Finally, he joined Vibrattec Oil & Gas Department in 2011. Loïc is the piping specialist and project manager for vibration-related projects, working on preventing and troubleshooting the unacceptable dynamic behavior of equipment, topsides, pipes, piping networks etc. His expertise covers the improvement of rotating equipment design, rotor dynamics, troubleshooting computations and dynamic piping studies (FIV, AIV...). Loïc is also project lead, which means he is in charge of a team of engineers at Vibrattec HQ in France and at Vibrattec Asia Pacific in Kuala Lumpur Malaysia.



**Ludovic Assier, Rigid Pipeline Specialist,**  
**Total**

Ludovic Assier has a master degree in Mechanical from French engineer school: Ecole Centrale de Lille. Ludovic has been working for the offshore industry for 13 years, first for EPCI contractors. He joined Total in December 2008 working in the Pipeline Specialists department. Initially in charge of pipeline design and project assistance, he's now involved with pipeline integrity topics such as fitness for purpose re-assessment and mitigations definition.



**Christopher M. Barton, Senior Vice President – Global Offshore Business Development (Advisory Board Member)**  
**Wood Group Mustang, Inc.**

Christopher M. Barton is currently Sr.Vice President –Global Offshore Business Development, for Wood Group Mustang, based in Houston where he has responsibility for global business development for WGM's Offshore Business Unit. Chris has over 35 years experience in the upstream oil and gas industry and has also held senior roles with KBR, FloaTEC, Technip, McDermott , ABB and PennWell. Since commencing his career as a Field Engineer with McDermott in Singapore in 1980, Chris has worked in a wide range of roles encompassing Operations, Projects and Business Development in the Americas, Asia Pacific and Middle East. Experience covers all aspects of the upstream industry, including business-to-business publishing, and developing and managing industry events.



**François Bayrou, Mayor of Pau**

François Bayrou was elected mayor of Pau at the municipal council investiture held Friday, April 4, 2014 .

François Bayrou was born May 25, 1951 in Bordères Pyrénées- Atlantiques.

A university professor, he taught at Pau (Marguerite of Navarre , St. Cricq , Clermont, Jeanne d'Albret ) and Nay .

From 1982 to 2012, he was elected General Counsel .

From 1993 to 1997, he became Minister of Education , Research and Higher Education under the presidencies of François Mitterrand and Jacques Chirac . He is Chairman of the UDF and the Democratic Movement and Chairman of the European Democratic Party . He is married and father of six .



**Mauro Bedini, R&D Engineer**  
**SBM Offshore**

Mauro Bedini works in SBM offshore as R&D engineer in charge of new products developments. Mauro graduated in mechanical engineering at the Ecole Centrale de Paris and at Politecnico di Torino prior to obtaining a post graduate master in petroleum engineering at Politecnico di Torino. He started working at Eni in 2004 in the Caspian Sea and at West Africa offshore before joining SBM offshore in 2007. He started in SBM as technical project engineer in charge of buoy terminals projects, since then his main

undertaking is the qualification of new components in product and technology department, with the ILMC and the ARCA chain connector as latest developments.



**Martin Bell, Director of Global Business Development**  
**Balltec Engineered Solutions**

Martin has extensive experience and multifaceted expertise in the oil and gas industry and has amassed a wide range of senior management experience in project troubleshooting and analytical process application applied to a range of industry disciplines. Martin has sat at board level for business operations involved with the management of oil and gas projects and the development of critical engineered solutions for projects including Petrobras Guara Lula, Brazil, Shell Malakai, Malaysia and Chevron, Wheatstone, Australia.





**Laurent Bordet, Marketing & Technical Support Manager  
Vallourec Drilling Products**

Laurent Bordet, Marketing and Technical Support manager for Vallourec Drilling Products, the drilling products division of the Vallourec group. Laurent has 12 years with Vallourec in the Oil & Gas division at different positions: Research and Development of Premium Threaded and Coupled connections and Drilling connections, Quality Assurance Manager of the VAM licensee network and currently Marketing and Technical Sales Manager for Vallourec Drilling products. (7 years with OCTG - 5 years with Drilling Products division)

Laurent has proven technical expertise in the Oil & Gas industry (Exploration & Production, standards), materials & metallurgy, manufacturing processes, casing/tubing design, drill string components selection, Quality Assurance, Product Line management, as well as Marketing and Technical Sales experience. In his current position, he's in charge of regional market development for drilling tubular and other drill stem components in the oil & gas industry. He's a drilling tubular materials and connections subject matter expert, in charge of product qualification for national and international operating companies, drilling contractors, and service companies in the oil & gas sector. He's also in charge of the development of customized services for drilling contractors & operators.



**Mr. Arnaud Breuillac, President – Exploration & Production  
Total E&P**

Arnaud Breuillac, 57, graduated from the Ecole Centrale de Lyon in 1981. He joined TOTAL in 1982 and has served in various positions in its Exploration & Production Division, including Abu Dhabi, the United Kingdom, Indonesia and Angola as well as the Refining Division in France. From 2004 to 2006, he held the position of Vice President, Middle East - Iran. In December 2006, he was appointed to the Management Committee of the Exploration & Production Division, concurrent with a new role as Senior Vice-President, Continental Europe and Central Asia. In July, 2010, he was appointed President, Exploration & Production, Middle East and in January, 2011, became a member of the Group's Management Committee. On January 1st 2014, Arnaud Breuillac became TOTAL's President, Exploration & Production, responsible for the Company's increasingly diverse portfolio around the world.



**Igor A. Brucher, Sr. Marketing Manager  
Transocean**

Igor Almeida Brucher is a Sr Marketing Manager with Transocean. Born in Rio de Janeiro he graduated in Mechanical Engineering and Psychology in his home town and soon after joined Transocean working offshore Brazil for 3 years before moving to Houston and working his way up in the operations organization to rig manager. In 2009 he joined the construction of a new build drillship in South Korea which led him to Angola and again to Brazil in 2011. Same year in which he joined the marketing and in 2013 took over

responsibility for Australia and South East Asia and over the last year, North America. He is now transitioning to The Hague to overlook marketing efforts in Africa and the Mediterranean.



**Oscar Cadete, Subsea Field Operations Support Leader - Area 17B  
Total**

Oscar Cadete graduated a Mechanical Engineer at Technical University of Lisbon, Master of Petroleum Engineer at IFP (French Institute of Petroleum). Oscar started his carrier back in 2006 within Total EP Angola as subsea inspection and engineer on Block 17 (for 2,5 years). He worked for 3 years as Subsea Field Operation Engineer on Dalia Field. In 2012 he joined CLOV Project as Subsea MIEC Engineer in Norway. Two years later he re-joined Block17 in Angola as field operations Subsea Leader responding for the support to subsea on Area B, which includes CLOV and Pazflor fields, which is his current position.



**Marc Cahay, New Technology Offshore Department Manager  
Technip**

Marc CAHAY is Graduate Engineer in civil Engineering in 1990 from Ecole Spéciale des Travaux Publics (E.S.T.P.) in Paris, France. Member of the TECHNIP's Experts network (as a Main Expert). He is managing the Offshore R&D activities since 2006 at Technip France, covering new technology, platform concept, installation system & procedures, LNG offloading system. He has 25 years' experience in fixed and floating structural design for jacket, jack-up, topsides, FPSO/FLNG modules. He has extensive background in numerical simulation. He is board member of SPE French section.



**Geraldine Coudert, Flow Assurance Manager  
Doris Engineering**

Géraldine Coudert is the Head of Flow Assurance Department within Doris Engineering which is an independent engineering company specialized in upstream design for oil and gas industry. She manages a team of 8 Flow Assurance engineers and has been involved in many onshore and offshore oil and gas projects from Conceptual studies to Detailed Engineering. With a professional experience of more than 14 years, she developed skills in Flow Assurance, process, field operations and subsea design.



**Jean-Paul Couput, Head of Allocation & Metering Group - Expert  
Total**

Jean Paul Couput has been graduated from Superior National School of Mines in France. He obtained a Ph D in Physical Chemistry in 1981. He is active in multiphase metering, wet gas metering, fiscal metering, custody transfer measurements data validation & reconciliation and allocation development and standardization since 25 years. He is now developing and promoting smart metering solutions within his Company. He is author of several papers on multiphase metering & data reconciliation (SPE, FLOMEKO, NSFMW, ADIPEC ...) He is also involved in metering & allocation regulations development as well as in measurement / allocation audits and trainings in different countries. He is now working as Allocation & Metering Expert for TOTAL and leading Metering & Allocation department in TOTAL Headquarters (France).



**Gilles Cousin, Chief Engineer**  
**SEAL Engineering**

Gilles acquired over 18-years of experience with SEAL ENGINEERING (TECHNIP 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 R&D coordination within SEAL Engineering and project management.



**Eduardo Decnop, Riser Lead**  
**McDermott**

Eduardo is team leader for risers, umbilicals and flexibles in McDermott Epsom UK office. He has 13 years experience in SURF including in-place and installation.



**Loïc Delebecque, SURF Technical Manager**  
**Total E&P**

Loïc has an engineering degree from the French Engineering school Ecole Polytechnique and a Master of Science in Mechanical Engineering from Ecole des Ponts et Chaussées. He has been working for the Oil and Gas industry since his graduation in 2005. Loïc has started as an R&D engineer belonging to the Saipem SA Technology Development division where he was involved in development of new technologies related to SURF (Subsea, Umbilicals, Risers and Flowlines) technologies for deepwater applications. After 2 years in the Saipem R&D group, he has taken the role of Lead Engineer for the riser package on the Kizomba Satellites project for ExxonMobil in Angola. He has had various other positions in the Saipem organization and has left Saipem in 2013 and has joined Total E&P as SURF Technical Manager for the Edradour Glenlivet project in UK sector in North Sea. He is in charge of the SURF package for this particular project.



**Bent Thomas Denis, Group Leader DEH Mechanical Accessories**  
**Nexans Norway AS**

Bent Thomas Denis is a group leader at Nexans Norway AS in the Direct Electrical Heating (DEH) department. He received his M.Sc in engineering design and materials from the Norwegian university of science and technology (NTNU) in 2005. Since 2009 he has been working in Nexans and has been lead engineer for the BP Skarv DEH development project, project engineer and part lead engineer on Statoil's Skuld DEH project and engineering manager on Chevron's Lianzi DEH project. He has been offshore as technical supervisor on several occasions.



**Sylvain Denniel, Offshore Engineering Division Manage**  
**Technip**

Sylvain Denniel is currently the manager of the Offshore Engineering Division, based in Aberdeen, which is one of the technology and R&D centres from Technip, focussing at the delivery of reliable, differentiating and cost efficient solutions for the subsea market. He joined Technip in 1997 and was involved in the technical support of a number of key milestone projects for Technip such as bp Nile, Shell Nakika, Total Dalia, Statoil Snohvit or Total Islay. He also led development of key Technip technologies such as the 1st generation electrical trace heated pipe-in-pipe or 1st implementation of aerogel insulation into a pipe-in-pipe, delivering enhanced thermal insulation performance. The late successful developments and qualifications include the reeled mechanically lined pipe, which will be the object of this presentation, some of which was successfully installed in the Gulf of Mexico in December 2015.



**Mark Dixon, Chief Operating Officer (Projects & Delivery)**  
**io oil & gas consulting**

Mark Dixon is Chief Operating Officer of Projects & Delivery at io oil & gas consulting, a joint venture of GE Oil and Gas and McDermott, that harnesses powerful thinking to deliver certainty across complex offshore oil and gas projects. With over 20 years in the offshore industry including extensive start-up and broad domain expertise in offshore project delivery and project pre-sanction design, Mark has held a variety of senior technical and executive management roles. Before io, he was most recently at McDermott after acquisition of his independent, global consultancy business in 2013, where he established a world-class portfolio of high-profile deepwater projects. At McDermott, Mark was responsible for their global subsea engineering division and established a Centre of Excellence for the operational side of the business. Mark's extensive subsea engineering and project management skills form the technical core of io's services.



**Ross Doak, Subsea Engineer**  
**Shell UK Limited**

Ross is a Subsea Discipline Engineer at Shell UK. Ross graduated from Heriot Watt University with an MEng in Robotics and Cybertronics in 2012. Within his time at Shell he has worked on project delivery and new technology development. Ross is presently coordinating the completion of the technical and commercial qualification of the AIV for Shell. He is collaborating with various organisations to identify sensor systems for AIV integration to deliver an AUV-based infield integrity surveillance package which meets Shell's next generation global underwater inspection service requirements.



**Arnauld Dumont, President  
DimEye Corp.**

Arnauld Dumont is a surveyor expert engineer and has been working for more than twenty years in the field of 3D measurement by photogrammetry in various industries.

He managed 3D survey projects in Europe, Africa, Asia and USA. He founded DimEye in Los Angeles back in 2009 with the goal of focusing on applications into hazardous environments such as subsea, space and nuclear areas. Since then, he has been carrying out many 3D survey projects and DimEye has developed a unique and very innovative technology called VLS™ (Video Laser Scan) for subsea periodical inspection of components and as-built surveys prior to modifications.



**Stewart Duthie, Manager, Subsea Technology  
Flexlife Ltd**

Stewart Duthie joined flexible pipe specialists Flexlife in 2009 initially in a business development role transitioning to the role of Manager, Subsea Technology in 2012. Since then he has been involved in numerous flexible pipe integrity projects in Europe, Australasia, North America and Asia and has assisted in the development of a number of Flexlife's unique technologies. He was also the initiator and a steering committee member of the Riser End of Life JIP which began in 2012, concluding in 2013. Stewart has presented at a number of industry seminars including MCE DD, OPT, Subsea UK, SUT and the Energy Institute. Stewart also has a keen interest in marine renewable technologies, holding a patent relating to tidal energy generation. Prior to joining Flexlife he was involved in subsea electronics working with Danish subsea electronic and fibre optic experts Macartney and before that in topsides electrical supply with MacLean Electrical.



**Diane El-Gemayel, Subsea Specialist  
Total**

Diane El-Gemayel is an engineer who graduated from a French Engineer School, Centrale Paris. During her professional career (8 years in TOTAL), she has worked in

Congo on a platform as Exploitation Engineer responsible for treatment, Water injection, Subsea production; Norway as Xmas Tree engineer on an Angolan Project; Angola as Deputy SPS Package Manager on CLOV in an onshore yard where she was responsible for all SPS equipment (from WH up to Xmas Tree) fabrication, testing and mobilization offshore. Since 1 year ½, she is dedicated to Pau office as subsea support to Total's big affiliates such as Angola, Congo & Nigeria on subsea matters such as subsea pigging, coiled tubing on production riser, SIMOPS, subsea pumps monitoring.



**Dr. Tom Elson, R&D Analysis Engineer  
Teledyne Oil & Gas**

Tom obtained a Masters degree in Aerospace Engineering from Queen Mary University of London in 2010, followed by a PhD in Computational Aerodynamics at Cranfield University. Tom has been with Teledyne Oil & Gas for 3 years, working on New Product Development sensor projects, specialising in computational analysis to optimise sensor performance. In addition to his analysis responsibilities, Tom has played a key role in the development of the Downhole Sensor.



**Olivia Fachan, Subsea Installation Manager  
Technip France**

Olivia joined Technip France Subsea division in 2006. She has started her career as rigid pipeline installation engineer on Block 18 project using Deep Blue. She has since then undertaken similar positions for installation of subsea systems, including rigid and flexible pipelines, as well as umbilicals for various clients including Aker/Reliance (MAD6), Chevron (Agbami), British Petroleum (Block 31), Total (Dalia repair) and Statoil (Njord / Vinsud).

Lately, she has been in charge of subsea system installation scope on Total brownfield project GirRI in Angola, first as deputy installation manager on first phase (GirRI SURF1) and then as installation manager on second phase (GirRI SURF2).



**Vincent Fort, Topside Manager  
Doris Engineering**

Vincent Fort is a Project Engineering Manager for DORIS Engineering.

He is a graduate from the French Ecole Nationale Supérieure d'Arts et Métiers and holds a MSc in Mechanical Engineering from the Georgia Institute of Technology.

During the course of his 15 years of experience with DORIS in the petroleum industry, he has been involved in several brownfield modifications projects carried out for a variety of operators.



**Christian Fouillout, Head of Production Operations within Field Operations  
Total**

Christian Fouillout is an engineer graduated from the ENIT ( Engineer's National School) and the IFP (French Institute of Petroleum).

During his professional career (37 years with TOTAL) he worked in various countries: Norway, France, Australia, Cameroon, Texas and Argentina in the domains of Drilling & Completion, wells, Projects, and Production Operations. Today he manages in the HQ of TOTAL the service of Production Operations: Well Integrity, Flow Assurance in operations, Pigging, Sand, Terminalling & Marine operations, and management of the integrity in operations. His implication in the subsea domain began in 1982 with the development of North East Frigg (one of the first subsea development in Norway) gas wells controlled from an articulated column. Then was involved in subsea projects and operations linked to the development of "elephants" in west Africa (Angola, Nigeria, Congo)

**Philippe Gerlach, Deputy Vice President for Technologies (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.

**Sébastien Ghis, Geomatics and positioning specialist****Total E&P**

Sébastien began his career as land surveyor on marine construction works; he has conducted both land and hydrographical surveys for various projects in Europe, North America and Africa. He then joined the Oil & Gas industry in 2008, as surveyor in charge of positioning and mapping works, both onshore and offshore, for Total Gabon. In 2010, he joined Total as a senior surveyor providing support in geodesy, land surveying, subsea metrologies, dimensional control and offshore positioning to Total E&P subsidiaries. In 2012, Sébastien reached Total E&P Angola as responsible of Geomatics; he notably managed the first multi-sensor Autonomous Underwater Vehicle (AUV) inspection survey project completed by Total. Sébastien now holds a position of Geomatics and Positioning specialist at the Technology Division of Total E&P.

**Mattias Gillis Winge Rudh, Specialist Engineer****FMC Technologies**

Mattias Rudh works as Specialist Engineer in the Subsea Processing and System Department in FMC Technologies, Norway. He is a process engineer by training (M.Sc. Chemical Engineering, Chalmers University of Technology, Sweden, 1999), and a have worked in various industries (nanotech, specialty chemicals and carbon capture and storage) before joining FMC in 2011. Presently he is the Global Product Responsible Engineer for subsea coolers.

**Øystein Grande, Principal Researcher, Strategic Research & Innovation****DNV GL**

Øystein Grande, M.Sc., is Principal Researcher at Strategic Research & Innovation, Norway. He has twenty five years of experience within different areas of the oil & gas industry, lately as principal researcher within subsea processing. He started as topside process engineer, working with field development projects. Later, he moved to subsea and among worked on the Troll Pilot project in 2000-2001. For the last ten year he have been employed at DNV-GL, where he have been working on risk management within flow assurance, subsea processing and gas value chain/LNG. For the last year he have been working within strategic research within with foresight activities as well as qualification of subsea systems.

**Emil Gyllenhammar, Senior Process Engineer****Aker Solutions**

Emil holds a Bachelor of Science from Oslo University College and a Master of Science from the Norwegian University of Science and Technology in mechanical engineering. In his studies, Emil specialized in industrial process technology and did his master's thesis work on subsea gas dehydration and subsea process cooling. In his current position as a senior process engineer in Aker solutions, Emil participates in subsea processing concept and feasibility studies and assists in work related to the development and qualification of subsea processing technology.

**Henning Hansen, R&D Manager****Aarbakke Innovation**

Henning Hansen is the R&D manager for Aarbakke Innovation. He is an inventor and serial entrepreneur who started in the oil and gas industry in 1978 and co-founded his first company in 1985. Since then he has co-founded and built up 11 companies in our industry, and holds more than 35 patents. His motto is What if it Works!

He has worked in the North Sea, Gulf of Mexico, onshore Sudan, Egypt and Italy.

Some of the companies he has been involved in are Lasalle Pressure Data, which became the foundation for Roxar and Altus's wireline division, SubTech, which became Weatherford Intelligent Completions Systems, Sensornet, Robotic Drilling Systems, Ziebel, Zilift and Hansen Downhole Pump Solutions.

**Paul Hazel, Vice President Well Completion Solutions****Welltec**

Paul Hazel holds a B.Sc. in Mechanical Engineering from the University of Birmingham. During his studies and after graduating, he worked for GEC – Nuclear Reactors enjoying hands on site construction work experience. In 1981, Paul joined Wireline Schlumberger and progressed through the career program working mainly within the Middle East region. He left Schlumberger in 1990 and joined Total Fina Elf and progressed to Petrophysics team leader for the UK operation. In 1994, Paul joined READ Well Services Ltd, becoming the Operations Director for their International Borehole Seismic and Cased Hole acquisition and processing business. More recently, he was the instigator and innovator for the Hydraulic Expandable product line. Paul joined Welltec® in 2008 to develop the synergies of the Welltec® technologies and Expandable Products, identify the strategy and implement the R&D and Business Development program for Welltec® Well Completion Solutions.



**Ole Heggdal, Chief Engineer**  
**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 responsible for flowline heating products and DEH within Aker Solutions.



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

Paul Hillegeist is President, Chief Operating Officer and Co-Founder of Quest Offshore headquartered in Houston, Texas. Quest is a strategic advisory firm to the global oil & gas industry providing Market Intelligence, Data Analytics, Strategy and Consulting.

Paul has over 25 years of industry experience including 16 years as President of Quest which serves over 300 global clients including the world's leading Fortune 50 Companies including Royal Dutch Shell, ExxonMobil, GE Oil & Gas, Schlumberger, TOTAL, BP and Chevron. Paul actively leads Quest's Research & Data Division, global Business Development & Acquisition activities as well as their growing Consulting Practice which advises major integrated oil companies (IOC's), oilfield service companies, industrial conglomerates, notable industry associations, private equity, hedge funds & global financial firms. Paul holds a Bachelors of Arts Degree in Economics from The University of Texas at Austin.



**Amandine Idrac, Senior Engineer, Process and Systems**  
**FMC Technologies**

Amandine is currently working as a senior process and system engineer within the Subsea Processing department in FMC Technologies. She has a Master of Science in Chemical Engineering from INSA, National Institute of Applied Science, France.

Throughout the years, Amandine has been involved in a wide range of early phase concepts and FEED studies related to Subsea Processing including subsea separation, pumping and compression systems. In addition, she has been part of innovative developments with specific focus on subsea separation.



**Tine Bauck Irmann-Jacobsen, Global Application Owner Subsea Processing Design**  
**FORSYS**

Tine Bauck Irmann-Jacobsen, current position in FORSYS (FMC Technologies) Asker, Norway, Field Development and Flow Assurance, Global Subject Matter Expert Subsea Development Design. Worked with special focus on Flow Assurance and operational challenges in complex subsea production systems for the last 10 years, among others in 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, Engineering Manager - Discipline Responsible DEH Systems**  
**Nexans Norway**

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.



**Thierry Jahant, Business Development Manager**  
**Logstor**

Thierry is an expert in pipelines coatings and leading LOGSTOR Oil & Gas development for offshore business. His goal is to introduce modern and cost effective technologies to become a key player in Deep and Ultra Deep water arenas. Thierry has 20 years of experience in the Oil & Gas industry varying from Project Management to Sales and Business Development. He started his career in France working for Technip, joined Eupec in Germany and then ShawCor in Brazil. Thierry owns a postgraduate Diploma of Management and a MBA from the University of Derby (UK).



**Karim A. Jan, Business Development Director**  
**Subsea 7**

Karim A Jan is Subsea 7's sales leader for its alliance with OneSubsea, a position he assumed in mid-2015. He also serves as business development director for Subsea 7. On a day to day basis Karim is involved within the alliance's operating committee developing the thinking and ways of working whilst providing support to the global sales and marketing teams engaged in winning work. Karim Jan has held various roles within the subsea and offshore industries over a nearly 30 year period. Roles have been regional and global including over 5 years in Houston, 4 years in Rio de Janeiro, 4 years in Aberdeen with a lot of time travelling extensively in West Africa and the Middle East. He has worked offshore on diving, pipe-lay, anchor handling and drilling facilities. Having both presented a number of technical papers and chaired conference technical sessions Karim remains intimately involved in the subsea oil and gas industry. Principal previous employers include 2H Offshore and Balmoral Group. Within Subsea 7 Karim previously served as business development director for its Africa, Gulf of Mexico and Mediterranean region, global account director for Subsea 7's business with Chevron and more recently BD director for its Southern Hemisphere and Global Projects division. Karim Jan was born in London in 1967, holds a UK passport and has permanent residency status in the US and Brazil. He grew-up in England close to the early British oil and gas industry in Great Yarmouth. He studied electrical electronic engineering in Norwich. Karim is married with two children and lives in Houston, Texas.



**Alf Reidar Johansen, Standards Manager**  
**IOGP**

Alf Reidar joined IOGP in 2008 following retirement from Statoil after the merger with Norsk Hydro Oil & Gas. He started working with DNV in 1968 and on offshore projects in 1970 and has worked in the oil & gas industry on various projects since, including for Saga Petroleum. An understanding that good industry and international standards are very important for the oil & gas industry emerged in the early days and this field became more and more in focus as the years went by. Now standardisation is the buzzword in our industry to survive the era of low oil prices.



**Myles Jordan, Principal Consultant, Oil Field Chemicals**  
**Nalco Champion**

After gaining his BSc in Geology and Chemistry at the University of Glasgow, Myles studied for three years at Manchester University to obtain his PhD in Sedimentary Geochemistry. Myles joined Heriot-Watt University in 1992, where as a senior research associate he was responsible for the day to day running of the Oilfield Scale Research Group Laboratory and for related contract research e.g. on scale inhibitor evaluation, static adsorption and reservoir condition dynamic coreflood studies of operating and service companies.

Myles has been an author or co-author of over 100 papers on adsorption/formation damages aspects of oilfield scale inhibitors. Myles is a committee member for both the SPE International Oilfield Scale Symposium and International Symposium on Oilfield Chemistry. From 1999 to 2007 Myles was responsible for managing Nalco's Technology Group in Aberdeen. Myles is currently principle consultant for the Inorganic Scale control product line along with development of topside/downhole scale control programs for Nalco Champion's global customer's base while investigating new scale inhibitor molecules, novel deployment applications and monitoring methods for scale control in vertical/horizontal wells.



**Mr. Kasper Karlsen, Head of Performance Improvement**  
**Maersk Drilling**

Mr. Karlsen has 9 years of industry experience working for the Danish drilling contractor Maersk Drilling. With a background as a Naval Architect he started his career within Engineering and transitioned into Operations and asset management where he held a Director position dealing with management of the company's fleet of Ultra-Deepwater drilling units working out of the headquarters in Copenhagen. He recently took up the position as Head of Performance Improvement in Maersk Drilling. A support function with the purpose of enhancing operational performance, differentiate and reduce total well cost.



**Luc Heme De Lacotte, Process Engineer Coordinator**  
**Technip**

Luc is a graduate engineer from the Ecole Nationale Supérieure en Génie des Technologies Industrielles (ENSGTI), Pau, France. He joined Technip France in 2003 and has been working on Upstream oil&gas projects in the onshore and offshore 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. Since 2013, he has been developing the subsea processing activities for Technip France. Prior to his involvement in subsea processing, Luc worked on a brownfield project in West Africa for Total E&P.



**Karine Lafontaine, SURF Package Manager**  
**Total**



**Liza Lecarme, Specialist Engineer - Subsea Design and Analysis, Development Lead**  
**Heerema Marine Contractors**

Liza Lecarme is Development Lead in the Subsea Design and Analysis department of Heerema Marine Contractors. Her work focuses on the design and testing of rigid pipelines installed by reel-lay. She has a Master in Mechanical Engineering and a PhD in Mechanics of Materials.



**Dr. Hoseong Daniel Lee, Vice President - Special Projects, Technology**  
**ABS**

He is a Vice President, Special Projects, Corporate Technology in ABS. He holds a Ph.D. in Naval Architecture & Ocean Engineering from the Stevens Institute of Technology, U.S.A. in 1985 and B.S. & M.S. degrees in Naval Architecture from Seoul National University, Korea in 1976 and 1978 respectively. He served various positions in ABS since 1998 including VP, Technology and Business Development and Director of Engineering. Before joining ABS, he served 13 years in Korean Shipbuilding Company as a Director of R&D Institute and Ship Design office. He is recognized for his work in the ship and offshore hydrodynamic research and LNG technology including sloshing and LNG containment system assessment. He also led the development of the ABS Rules and SafeHull program for membrane type LNG carrier. Now he is leading ABS JIP on Offshore Standardization.



**Jos Leo, Area Business Development Director**

**SBM Offshore**

Joseph (Jos) Leo joined the Company in April 2014 2011 as Business Development Director. He is a Master of Science, Mathematics – Engineering Geology (1986) and started his career with Heerema Contractors as Project Manager. More than 28 years’ experience in various senior positions mainly in the Oil and Gas Industry. Worked on global scale for international clients such as Shell, Total, Statoil, Petronas, Kvaerner, BP and Chevron. Currently working in SBM Regional Center Europe (location Schiedam) as Area Business Development Director



**Sigurd Ellingsen Lie, Project Engineering Manager**

**EMAS AMC**

Sigurd graduated from Norwegian University of Science and Technology in Trondheim with a Master degree in Mechanical Engineering and a Master thesis in Arctic Technology (Ice mechanics) which was written on Svalbard (UNIS). Sigurd joined the subsea industry in 2006 as a Graduate Engineer in Acergy. He further worked 4 years as a field engineer at the IMR vessel Far Saga before moving on to Aker Marine Contractors, later EMAS AMC. In EMAS AMC Sigurd has been the Engineering Manager for 2 large cable projects (EWIP & Goliat) and the Aasta Hansteen Template Installation project.



**François Lirola, SURF R&D Lead**

**Saipem**

François LIROLA has a master of science in hydrodynamics and mechanical engineering. He has been working for 6 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.



**Audrey Lopez, Integrated Process Group Lead,**

**Technip**

Audrey has a master degree in Chemical Engineering from the Ecole Nationale Supérieure des Arts Chimiques et Technologiques (ENSIACET), located in Toulouse, France. After a few years in the petrochemical industry, she joined the Technip Group in 2005 working for Genesis in Aberdeen on upstream offshore oil & gas projects. She transferred to Technip Paris in 2007 where she gained experience as a process engineer by working on several offshore and onshore conceptual and FEED studies. Since 2011, she has been working on subsea processing projects within Genesis Paris and Technip Subsea R&D departments. She is now leading the subsea processing team within FORSYS Subsea SAS in France.



**Benoit Ludot, Vice President - Drilling**

**Total**



**Øyvind Lundby, Project Manager**

**DOF Subsea**

Øyvind Lundby has thirty years’ experience within various aspects of Marine Operations, the last 25 years generally assigned as Project Manager. He was employed by DNV GL from 1986 through to 2008. Through this period he was assigned the main responsibility for revising and re-formatting “DNV Rules for Planning and Execution of Marine Operations”, issued January 1996. He headed DNV GL Marine Operations unit from 1998 to end 2002, and coordination and development of the DNV RP H101, Risk Management in Marine- and Subsea Operations. Since 2008 he has been employed by Dof Subsea Norway/Semar, assigned as Project Manager for design, engineering and execution of Marine Operations. His latest engagement as Project Manager for the Goliat Marine Installation Scope of Work, successfully completed summer 2015.



**Brian Lynch, Project Manager**

**Technip UK**

Brian Lynch gained an honours degree from the University of Glasgow in 2001 and is a Chartered Engineer with the Institute of Mechanical Engineers (IMechE), he is also an accredited Project Manager with the APM. Working initially as project engineer then progressing to project manager Brian has worked on various EPCI projects worldwide including deepwater riser installation and notably the first application of an Electrically Trace Heating (ETH) pipeline system. In Q2 2012 Brian commenced his current role as Technip Project Manager for the Water Column Scope for the Quad 204 project, his remit includes responsibility for the riser, umbilical and mooring removal and installation work scopes.



**Rory MacKenzie, Senior Technical Advisor - Subsea Control Systems**

**Total E&P**

Since graduating in Edinburgh with a B.Eng honours degree in Electronic & Communication Engineering, Rory has spent almost 30 years working in the Oil & Gas industry. For the past 10 years he has worked as a senior technical advisor in the technology division at Total headquarters in Paris. As the technology domain expert for subsea production control systems, Rory has worked on the introduction of innovative technologies throughout the Total deepwater portfolio. Prior to this Rory spent 8 years in product

development at the Schlumberger technology centre in Houston, 5 years as a subsea control system engineer with Kvaerner FSSL and 4 years in the Middle East working on Seismic exploration crews. Rory has a number of patents and technology papers to his credit and represents Total on various industry bodies and standardization committees.



**Sigbjørn Maeland, Business Development & Technical Sales Manager Global Sales  
Siemens**

Sigbjørn has been in the subsea business for more than 20 years, exclusively with subsea instrumentation, previously with Matre sensors. He has extensive knowledge and experience in manufacturing of Subsea instrumentation have held positions as Electronic Engineer, Technical Support Manager, Technical Sales globally, and in Quality Assurance.



**Keith Magowan, Subsea General Manager  
BP**

Keith Magowan is a subsea general manager in BP's Upstream global subsea systems (GSS) organisation, responsible for the North Sea and Angola regions. GSS is an organization that delivers subsea hardware and services. Keith has 18 years of experience in the oil and gas industry, working in subsea engineering and delivery roles at Shell and Vetco prior to joining BP in 2006. Since joining BP, Keith has held a number of project management roles across BP's subsea business in wells, projects and operations. Most recently, Keith was responsible for managing the delivery of the subsea production system for the Quad 204 major project in the North Sea. Keith is a member of the GSS leadership team. Keith is a Chartered Mechanical Engineer and holds a Mechanical and Electrical Engineering degree from The University of Edinburgh.



**Benjamin Mauries, Floaters Technologies Development Manager  
Saipem**

Mr. Benjamin MAURIES is part of Saipem Innovation & Technology Development department, based in France near Paris. He joined Saipem as an R&D project engineer in 2003 and has been in charge of various new technologies developments and qualifications in the fields of floating production facilities and deepwater flowlines systems ever since. He has been also involved on various FLNG development and FEED projects. He is today leading the Floaters Technologies Development group.



**Lachlan McKenzie, Specialist Engineer, Process  
FMC Technologies**

Lachlan McKenzie is a Specialist Engineer in the Subsea Processing, Process and System department of FMC Technologies in Norway. After receiving a doctorate in Chemical Engineering from Monash University in Melbourne, Australia, Lachlan moved to Norway and began his career in FMC. In the 9 years since, Lachlan has worked with subsea processing in a range of ways from early phase concept studies to subsea processing delivery projects.



**John Meenaghan, VP Global Operations  
EMAS AMC**

Mr. John Meenaghan has over 40 years' experience in many facets of construction and installation in the oil and gas industry, 18 of these were in senior-level management. He was one of the early pioneers on reel-lay and was involved in many state-of-the-art new built reel vessels in his career. Mr Meenaghan joined EMAS AMC in 2011 and was appointed Vice President Global Operations in 2013. He is responsible for all offshore and onshore construction activities, including operational oversight and management of senior level Offshore construction managers, supervisors and work forces. In addition to the above, he was directly responsible for leading the transitional efforts from build to operations for the Lewek Constellation, the Reel Barge 1 and the two spool bases (Ingleside Texas and Gulen Norway). Prior to joining EMAS Mr. Meenaghan also served Santa Fe, Technip, Brown and Root, and Subsea 7 respectively over a period of 35 years.



**Sachin Mehra, Vice President – Asset Management  
EnSCO**

Sachin has been in oil and gas business for 29 years.

Sachin joined EnSCO in July 2009 and is currently Vice President – Asset Management; responsible for reliability, maintenance, quality and subsea operations of the drilling rig assets. Prior to joining EnSCO, Sachin was with Premium Drilling from 2006 to 2009 as Director – Projects and Technical, where he was involved in new rig construction. Prior to that he spent 19 years with Transocean and its predecessor Sedco Forex Schlumberger in project management, construction, engineering, maintenance and operations roles. Sachin has worked in Asia, Middle East, Europe, Africa, South America and North America as part of his assignments. Sachin holds a Bachelor's degree in Mechanical Engineering from the Indian Institute of Technology in New Delhi, India.



**Anders Martin Moe, Senior Engineer - Floating Production  
Wood Group Mustang Norway**

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 facility hulls and hull systems design.





**Rhodri Morgan, Principal Engineer**  
**DNV GL**

Rhodri is a Principal Engineer working for DNV GL Oil and Gas in Manchester. He is a Member of the Institute of Engineering and Technology (MIET), a Chartered Electrical Engineer and a Certified Functional Safety Expert. He is also the Functional Safety Practice Lead for the UK. Rhodri works with clients across the oil, gas and process sectors both in the UK and overseas, in the areas of functional safety, control systems, subsea engineering and qualification. He has particular experience in pressure protection systems for large pipeline systems.



**Chris Morrissey, Expert Technologist - Energy Lubricants**  
**Castrol**

Chris Morrissey joined Castrol Offshore in 2004 as product advisor for the subsea business. He moved on to manage the technical service team, and then to specialise in product qualification, where he worked closely with many subsea equipment vendors. He has managed the energy lubricants product development function before taking up his current position as Expert Technologist supporting new technology development for the energy lubricants sector. Before joining Castrol, Chris has held several engineering design and development positions within rotating equipment and hydraulic component vendors. These positions allowed him to gain a wide experience in the design and application of hydraulic equipment and high performance sealing spanning sectors such as chemical processing, paper making, automotive and oil & gas. Chris is a Chartered Engineer with a B Eng. Degree in Mechanical Engineering.



**Amin NASR, Subsea Intervention Specialist**  
**TOTAL EP**

Amin NASR, BSc. of Electrical Engineering, MSc. of Subsea Engineering from the University of Aberdeen with 17 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.



**Yann Nicolas, Development Project Manager**  
**Technip**

After 15 years in the manufacturing unit of flexible pipes, Flexi France, Yann developed new in-service flexible pipe inspection tools. Yann is a member of expert's network of Technip, and is in charge of the development of new subsea inspection technologies within the Innovation Technology Center.



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**Knut Nyborg, Head of Advanced Subsea Production**  
**Aker Solutions**

Knut Nyborg has more than 20 years business experience in the international upstream Oil & Gas through central positions in technology and concept development, business management with P&L responsibility, projects, tendering and sales and has experience from both topside, onshore and subsea. He was the tender manager for the Åsgard subsea compression project and responsible for building up the subsea power and process department delivering the core technologies in the project. He currently holds the position as VP for Advanced Subsea Production in Aker Solutions' Front End Spectrum business area.



**Arne B. Olsen, Director Sales - ECR**  
**OneSubsea**

Arne Olsen graduated from the South Dakota School of Mines & Technology in 1983 as a mechanical engineer. Joined Framo Engineering, now OneSubsea Processing in 1985 as a subsea engineer. Has held positions such as Department Manager for the Subsea Department, Project manager, Global Sales Manager for Pumps & Subsea Systems, today as Director of Sales for OneSubsea Europe, Caspian & Russia.



**Thierry Palermo, R&D Flow Assurance Project Manager**  
**Total**

After a PhD from Jussieu University in Paris (France) defended in 1988, Thierry Palermo began his career in the oil & gas industry by joining IFPEN (previously named French Petroleum Institute). Following several years as a research engineer in different fields (emulsions, wettability, lubrication), he took in charge a R&D project on Gas Hydrates. Then, he was appointed head of the Physical-Chemistry Department. Finally, he was responsible for the Flow Assurance Business Unit. He has now been working in TOTAL Company for almost seven years as an expert in Production Chemistry and is currently in charge of a R&D project entitled 'Flow Assurance' in the R&D Deep Offshore Program. This project deals with multiphase flow modeling, organic and scale deposits, as well as gas hydrates and wax management.



**Vibor Paravic, General Manager (Advisory Board Member)**  
**GMC Ltd.**

Vibor Paravic holds a Masters 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.

**Harish Patel, Director - Corporate Technology – Drilling and Process****ABS**

Mr. Harish N. Patel, Director of Drilling and Production group in corporate technology of the American Bureau of Shipping. He has received a Masters of Engineering in Mechanical Engineering from Stevens Institute of Technology in 1991. He has over 25 years of industrial experience related to design analysis of wellheads, well control, drilling equipment, pressure vessels, hydrocarbon production and processing equipment, and general offshore engineering. He is responsible for developing ABS requirements for classification of drilling systems, the systematic validation of new technology for various field applications, risk evaluations, and developing published requirements for classification /certification of the technology to be used in marine applications, such as dual gradient and managed pressure drilling, HPHT drilling, CNG Carriers, and Floating LNG plants. He has vast experience in risk identification and performing special studies of innovative and novel offshore concepts. Mr. Patel is currently serving as Chairman of the ASME marine Conference and is technical lead for five workgroups in various API committees.

**Andrew D. Penno, Completions Technology and BD Manager for the ESSA****Halliburton**

Andrew Penno is the Completions Technology and BD Manager for the ESSA (Europe Sub-Sahara Africa) Region. This role includes managing the regional Tech Team providing technical support and ensuring the adoption of processes and technologies to drive efficiencies in the deep water and critical arena. With more than 25 years of experience in the industry and a background in Sand Control completions including engineering, operations, technology, R&D, marketing and management. His engineering career in completions and sand control spans field engineering support, project management, completion design and technical support for diverse projects ranging from land through to deep water projects mainly in the Europe, Africa and South America areas. His breadth of experience provides him an extensive international understanding of design principals and improved usage of best practices related to completions and engineering applications. Recently moved into the position of Halliburton completions global advanced completions manager. Along with five SPE papers, Andrew holds eleven patents relative to the completions industry with two pending.

**Dr. Adri R. Postema, GM Shipping & Maritime - Technology****Shell Trading and Shipping Company**

I have a doctorate in Chemicals from the University of Groningen, Netherlands and then worked as a Postdoctoral Fellow at the University of California in Santa Barbara, US. I started my early industrial career with ICI, and moved to Shell in 1991. During my career I have fulfilled roles in projects and technology management in chemicals, hydrogen and fuel cells, refining and solar, with intermediate spells in strategy and business development.

In 2012, I was appointed General Manager for Shipping & Maritime, Technology, driving Shell's innovation agenda for offshore maritime projects. My department is involved in the development of leading-edge technology, including FLNG (Floating Liquefied Natural Gas), LNG as marine fuel, floating re-gasification units, and novel shipping concepts.

I am member of the Supervisory Board of MARIN (Marine Research Institute Netherlands), sit on the Board of SIGTTO, and am a member of various Class Society UK Technical committees (DNV-GL, ABS, ClassNK). Born in the Netherlands, Adri is married to Patricia and they have two sons.

**Luc Riviere, R&D Deep Offshore****Total SA**

Luc RIVIERE is graduated from the Paris 'Ecole Superieure d'Electricite' and from the Paris 'Ecole Nationale Superieure des Petroles 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.

**Desiderio Rodrigues, Principal Completions Engineer****Halliburton**

Desiderio is a bachelor in Metallurgical and Materials Engineering, graduated in 2008. He joined the Offshore Industry in 2009 as Field Engineer with Halliburton. He progressed to be Project Engineer for the first Intelligent Completions Pilot project in pre-salt before moving to Business Development Role 2014. Desiderio had various roles during his 7 years within Halliburton from Field engineer to Business Development for Intelligent Completions in Brazil. Desiderio was deeply involved since the early stages of the Intelligent

Completions implementation, since solution development up to the effective installation in Brazil's pre-salt and challenges solving. He is now serving as Principal Completions Engineer in Brazil and contributing with Completions expertise for the coming pre-salt projects.

**David Roodenburg, Executive Board****Huisman**

Recently, David joined Huisman's executive board. He is charge of sales and product development of cranes and winches and the system engineering department, taking care of Huisman's full product portfolio. Prior to that he held various positions including setting up Huisman's new factory in Brazil. David has a bachelor and master's degree in mechanical engineering from the Delft Technical University.

**James Rowley, Global Subsea Business Development Manager****Hydratight**

James Rowley is a Chartered Engineer focused on global subsea development opportunities. Active in the Subsea Industry for over 10 years with international experience in riser, pipelines and emergency repair strategies. His current focus involves the development of deepwater pipelines & riser Inspection, Repair and Maintenance services and products.

**Andrea Rubio, Product Manager, All-electric Systems****OneSubsea**

Andrea Rubio is the Product Manager for All Electric Systems at OneSubsea, where she has worked for the past nine years. In this role Andrea leads the company's worldwide All Electric initiatives encompassing sales, marketing, engineering and research; supporting the innovation and development of new products and services within this field. In her career Andrea has held the position of product design engineer, subsea engineering manager and senior product analyst in the new technology development team and has pursued ways to reduce cost and increase functionality in all of these roles. She holds a degree in Engineering Physics from the University of Central Oklahoma and a Master of Science from the University of Oklahoma in Aerospace Engineering.



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**Gregoire De Saivre, Head of Conceptual Engineering****Total****Tanmay Sarkar, Team Leader – Marine Warranty Group****DNV GL**

Dr. Tanmay Sarkar is Team Leader of Marine Warranty group of DNV GL in London. He is a Ph.D from University of Strathclyde, Glasgow, a Chartered Engineer and member of Royal Institution of Naval Architects (RINA) and Indian Institute of Naval Architect. Dr. Sarkar is presently a Technical Authority within DNVGL for Subsea Pipeline Installation and responsible for first ever publication of Guideline for Submarine Pipeline Installation of Noble Denton (DNVGL). He is also a member of Membership Committee of RINA. He is currently managing marine warranty scope of several deep water mega subsea projects in West and South Africa. Dr. Sarkar has several years of experience in offshore installation engineering in key roles and worked for major installation contractor's such as Saipem, Subsea7 and CTC Marine Projects. He also has more than twenty publications in leading journals and conferences and currently involved in teaching MSc students of Strathclyde University Pipeline Installation as an invited Lecturer.

**Sadia Shaiek, Subsea Separation Technologies Development Manager****Saipem SA**

Sadia SHAIEK is a graduate engineer from "Conservatoire des Arts et Métiers" in Paris and has 18 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 at reservoir conditions 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.

**Hisham Sheriteh, Director of Business Development****Welaptega**

Hisham graduated from the University of East Anglia in 1998 with a degree in Applied Computing. Coming from a family with an Oil and Gas background, he was keen to pursue a career in this area. Hisham took on various roles including working Offshore as software support Engineer with Thales and Project Manager in the Middle East and North Sea with Zencus. Hisham steered his career towards Business Development with 2H, Pulse and Cameron. Following on from 18 years in the industry and extensive experience, Hisham was appointed Global Business Development Director for Welaptega Marine based in the UK.

**James Stewart, Director of Technology****OneSubsea**

James Stewart is Director of Technology for OneSubsea®, leading the team responsible for new technology development across the OneSubsea® product portfolio. Before this James was the Tree Product Manager. Prior to the 2013 formation of OneSubsea, James worked at Cameron for 13 years. Since joining Cameron in 2001, James has held several positions, including Engineer, Project Engineer, and Engineering Manager based in the UK and the US. James earned his Bachelor of Science degree in Mechanical Engineering from the University of Bradford.

**Marit Storvik, Manager Subsea Process Systems****FMC Kongsberg Subsea AS**

Marit Storvik grew up milking cows, chopping wood and hunting moose on a farm far up in the north of Norway. She took a M.Sc. in cybernetics from the Norwegian University of Science in Trondheim, triggered by interest in automation. She started to work in FMC Kongsberg Subsea AS in the Subsea Process Department as a process engineer in 2005. Marit's first project was the Tordis SSBI, continued into the Marlim SSAO project in Brazil in early phases of the project, managing the support functions from Norway while testing separators in the test rig in Porsgrunn and in Arnhem. She has continued to work with technology development and R&D in various roles, after a while in more leading positions. She is currently managing the Global Boosting department for Subsea Process Systems in FMC.



**Douglas Stroud, Senior Vice-President, Global Commercial (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.



**Nicolas Tcherniguin, Group Development Manager - Business & Technology Offshore**  
**Technip Corporate Services France**

Nicolas TCHERNIGUIN is Group Development Manager in the Offshore Business Development & Technology division within the TECHNIP Corporate organization in Paris. He has a French degree of civil engineer as well as two Masters of Science degrees in structure reliability and steel construction. He joined TECHNIP in 1992, prior to holding this position, he has been successively a project engineer on offshore projects in different places such as UAE, Malaysia and South Korea and hold different responsibilities and position in the Technology Corporate division in both the Offshore and Subsea segment.



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

Christophe T'Joen holds a Ph.D. in Mechanical Engineering from the Ghent University in Belgium. Following his Ph.D. he worked as a post-doctoral research at the Delft University of Technology, studying the thermo-hydraulics of the supercritical water cooled nuclear reactor. He joined Shell in 2012 as part of the Multiphase Flow team in Amsterdam as a Flow Assurance Engineer. His work mainly focused on low temperature assessments and experimental studies on the Severe Slugging Loop facility looking at Smart Choke operation and multiphase flow splitting. Recent experimental work focused on heat traced piping testing together with ITP InterPipe.



**Moez Trabelsi, R&D Engineer**  
**ITP InTerPiPe**

Moez joined the offshore industry in late 2014 as R&D Engineer with ITP InTerpipe. He has worked on the development of multiple Pipe-in-pipe subjects such as the qualification of subsea components for Electrical Heat Traced Flowline and ageing properties of PIP for HP/HT fields. Moez holds an Engineering degree from ENSTA ParisTech, with a specialization in offshore energies.



**Christina Tzotzi, Flow Assurance R&D Engineer**  
**FORSYS Subsea**

Dr. Christina Tzotzi is a Flow Assurance R&D Engineer Working at Forsys France on R&D projects focused on proposing innovative flow assurance solutions (e.g. hydrate management, multiphase flow). She is a Project Manager for the JIP: Hydrate Plug Management using Active Heating with Exxon, Woodside and Total and responsible for new subsea developments. Previously, she has worked as Postdoctoral fellow at IFPEN working on multiphase flow models development. Christina has a Ph.D Specialization in Multiphase Flow and significant active participation and publication to scientific journals and presentations to peer-reviewed scientific conferences.



**Carlos Viale, Pipeline Inspection Engineer**  
**Total**

Carlos is a mechanical engineer and graduated from the “Instituto Tecnológico de Buenos Aires” in Argentina. Carlos has worked for Repsol-YPF in Argentina for four years in the Integrity Department (onshore). He then moved to Total (in the Argentinean subsidiary) where he worked for four years in piping and pipeline engineering. He was expatriated to France where he worked for six years as a Rigid Pipeline Specialist, providing assistance to assess and solve integrity issues and giving also assistance to Projects from a design point of view, both onshore and offshore.

He has taken a new assignment in Congo since January 2016, working as a Pipeline Inspection Engineer.



**Alberto Villar, Offshore Export Cable Lead Engineer**  
**AV Energy**

Alberto Villar was born in Spain, in 1981. He received his engineering degree in electrical engineering from the University of the Basque Country, Spain, in 2008, and a M.Sc degree in Offshore and Ocean Technology from Cranfield University, UK, in 2014. In 2008 he joined the engineering department of the EPC Contractor Global Energy Services joining in 2010 the offshore team in the transmission and distribution division of Mott MacDonald consultancy. Since 2015 he has been with Iberdrola Engineering and Construction where he is currently the Offshore Export Cable Lead Engineer. He is a member of the Institute of Engineering and Technology and a former board member of the Next Generation CIGRE UK, the Council on Large Electric Systems.

**Jean Vittonato, Head of Corrosion Department****Total**

Jean started in cathodic protection in 1999 with COREXCO, an Engineering CP company. He was in charge of CP design both onshore and offshore, and of installation, monitoring and maintenance follow-up. After 7 years he joined Total as corrosion specialist within the Technology Division, more particularly in charge of cathodic protection activities. He provided corrosion & materials support to projects, and to TOTAL operating subsidiaries and operating companies in various affiliates. He was in charge of Research Projects follow-up on cathodic protection. Then he spent three years in Congo as the head of the corrosion department. He supervised the follow-up of all corrosion issues. Jean is now the Head of the Corrosion discipline in the Technology Division of TOTAL E&P, responsible of the HQ corrosion team, providing technical assistance to projects and operating subsidiaries worldwide. He keep the expertise of cathodic protection in the team, for specific project, complex issues and R&D topics. Jean is certified as a CP Specialist with Nace and with the Centre Français de la Protection Cathodique. He is also the new chairman of the ISO TC 67 SC2 GW11 (cathodic protection of pipelines)

**Tassos Vlassopoulos, Global Strategy & Marketing Director****GE Oil & Gas**

In his role as the Global Strategy & Marketing Director for GE Oil & Gas, Tassos is responsible for driving marketing strategies for the company's multiple product companies and regions leading a team of 80 strategists located in multiple hubs. He also owns & leads the annual strategic planning process, known as the Growth Playbook. GE Oil & Gas is one of GE's business units. It is headquartered in London and employs ~40000 people.

Tassos started his career as a Research Officer at the Centre for Business Strategy at the London Business School where he became the co-author of a book and several academic articles. He started his upstream Oil & Gas career in 1990 with Amoco UK Exploration Co. moving onto Deminex and Texaco where he led New Business Development (M&A) and multiple investment appraisal projects in EMEA and the Caspian. In 2001, he joined the Boston Consulting Group (BCG) where he headed the firm's Global Oil & Gas Research Unit, consulting Oil & Gas and Gas & Power companies. Tassos joined GE in 2005. Since then, he has held multiple leadership roles with GE Energy in Europe and GE' Subsea & Drilling business globally. Tassos holds a 1st class BSc (Hons) in Economics from the University of Piraeus (Graduate School of Industrial Studies, 1981-5) and took his MSc in Operational Research at the London School of Economics (1986-7).

Tassos has been a speaker at multiple international conferences on Oil & Gas and Power Generation. He lives in London with his wife, Anna, and daughter, Zoe.

**Roger White, Brownfield Technical Support Manager****GE Oil & Gas**

Roger started his professional career in the defence industry with British Aerospace and Plessey Naval Systems. He has been in the subsea oil and gas Industry for over 22 years, 8 of which were spent with ABB Offshore Systems where his final position was Sales Account Manager responsible for Subsea Production Controls Business Development in Houston. He also spent 2 years as Sales & Marketing Manager for Aker Kvaerner in Aberdeen responsible for the Subsea Production Controls, as well Sales & Marketing of XTs and Umbilicals. Prior to joining GE, Roger held the position of VP Business Development for the Eastern Hemisphere with Teledyne Oil & Gas. Currently employed by GE Oil & Gas, he has held the positions of Global Sales Manager for Brownfield Solutions and most recently Technical Support Manager for the Brownfield Asset Integrity Product Line. He holds an MSc in Applied Mechanics from Cranfield Institute of Technology, an MA in Marketing and DMS from Bristol Business School and is also a Chartered Engineer and Member of the IMechE

**Lee Wilson, Project Manager****Subsea 7**

Lee (CEng, MIET) is the Project Manager for the AIV development at Subsea 7 and has been with the company for 14 years working on a variety of remote technology and vehicle applications within their Life of Field group.

**Paul Yeats, General Manager, DTS****Oceaneering International**

Paul Yeats is the General Manager for Oceaneering, covering all Eastern Hemisphere operations based in Aberdeen. He has worked for Oceaneering for 9 years and has held operational roles in the Oil & Gas industry for 23 years. He has worked on many decommissioning projects whilst at Oceaneering ranging from large projects, umbilicals, small structure decommissioning works, Well P&A and severance projects via NCA (an Oceaneering company). Paul adopts a Global approach to Decommissioning by pulling on the breadth & depth of Oceaneering's knowledge, lessons learned and equipment/people sharing throughout the regions. An active member of Decom North Sea and Vice Chairman of the Decommissioning special interest group for the East of England Energy Group (EEEGR). Oceaneering are constantly looking at more cost effective solutions for decommissioning programs through new technologies, collaboration and information sharing.



**Mr. Jong-Hyun Youn, Vice President, Offshore Proposal SHI**

Mr. Youn was qualified for a BSc degree in the Department of Naval Architecture and Ocean Engineering of Seoul National University and a MSc degree in the Department of Naval Architecture and Ocean Engineering of Pusan National University in Korea. He joined Samsung Heavy Industries in 1988 and served as a detail electrical engineer in Electric Design Department for various oil tankers and LNG Carriers. Since then he moved to Basic Design Department and Offshore Sales Engineering Department and developed all basic design and specifications for safety system, control system, electrical system and navigation / communication system for a large number of commercial & industrial projects, such as Shuttle & Oil Tanker, Container Carrier, FPSO, FSO and etc. His expertise was further extended as a General Manager of planning and development in charge of management, coordination and supervision of all basic design activities and technical proposal for numbers of industrial projects such as FPSO, FSO, Drillship and etc. in Sales Engineering Team. He is now Vice President of Offshore Proposal Team in charge of technical proposal for offshore production facilities such as FLNG, FPSO, FPU and Platform.



**Fan Joe Zhang, Sesam Product Manager, Marine Dynamics and OWT DNV GL - Software**

Joe received his PhD in hydrodynamics and offshore platform design in 2008. He worked in DNV Software global technical support team from 2007 to 2010, after which he took the responsibility of business development in Asian Pacific and Middle East region, and later in North and South Americas. During his rotation in Asia, Americas and Europe, Joe gained diverse experiences from different kinds of project consultancy work, including fixed, floating platforms design and SURF analysis. Currently, he works in DNV GL – Software in Høvik as global Sesam product manager for marine dynamics and offshore wind turbine. He is a member of the technology leadership committee for Structural Integrity and Fatigue and also DNV GL Mooring Community. He has worked in different subsidiaries, particularly in France and Gabon. After a short period in the Well Performance Department, he was nominated as Field Architect in Gabon, followed by the same role in Indonesia and finally for the Kaombo project (B32 – Angola). Since 2014, he has been working as a Petroleum Engineer in the R&D Deep Offshore Program.

# MCE DEEP WATER DEVELOPMENT 2017

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## **2H Offshore** (Associate Sponsor)

2H Offshore is a global engineering contractor specialising in the design, structural analysis and integrity assessment of riser and conductor systems used in the drilling and production of offshore oil and gas. Our capability and experience covers all types of risers, from shallow water fixed platform conductors, to drilling and production risers used in ultra-deep water. Our business falls into two primary categories, Drilling, Completion & Workover and Production & Export. Engineering of the risers used in each area of activity has many similarities in terms of the skill sets and experience required to conduct the work, but each area has many unique characteristics requiring specific experience and knowledge of the equipment and operations involved.

2H has offices in a number of the major offshore oil centres of the world including London, Aberdeen, Houston, Kuala Lumpur, Rio de Janeiro and Perth.

To find out more visit [www.2hoffshore.com](http://www.2hoffshore.com)

## **4Subsea AS** (Stand #107)

4Subsea is an engineering and integrity management company. We are market leaders within life cycle management of production risers and wellhead systems.

Our target is to enable operations, reduce operating cost, increase production and extend service life by using our engineering methods, software, monitoring solutions and repair solutions.

Sense Offshore as is a daughter company of 4Subsea and develop fully autonomic monitoring solutions with extreme low power consumption, this opens up for cost effective monitoring campaigns.

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## **ABS** (Conference Technology Sponsor)

ABS is one of the world's leading classification societies, developing standards for the design, construction and operational maintenance of offshore and marine 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 offshore industry in 1958, ABS has remained at the forefront of setting offshore industry standards and technical guidance. ABS applies an unparalleled level of experience across the sector to assist owners, builders and operators in the realization of new generation offshore units and offshore support vessels. As the frontiers of offshore extend into deeper water and more remote and harsh environments, ABS provides technical guidance and practical advice to help meet the evolving technical and operational challenges in the industry.

Through four operating divisions and more than 70 offices strategically placed around the world, ABS provides a global network of skilled surveyors and engineers who support clients from the initial design concept, through the design approval process, during construction and throughout the service life of the asset.

## **Airborne** (Stand #206)

Airborne Oil & Gas is the world's first and leading manufacturer of fully bonded, Thermoplastic Composite Pipe. We developed the concept of 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 as strong and durable as the base materials.

The result is a strong and robust spoolable pipe, manufactured in continuous lengths.

The unique character of this technology offers specific benefits:

- High internal and external pressure ratings with tensile strength and spoolability
- No corrosion
- High flowrates as result of the smooth bore
- Spoolable with a superior fatigue life
- Compact and efficient end-fittings
- Unsurpassed toughness, impact resistance and residual strength
- Supplied in continuous lengths limited only by reeler or carousel capacities

Airborne  
[www.airborne-oilandgas.com](http://www.airborne-oilandgas.com)

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## **ATV Advanced Technology Valve S.p.A.** (Stand #507)

ATV provides a full range of valves for the most demanding applications in the offshore industry. The deeper you go, the more ATV Valves you will see.

## **AVENTA TECNOCONSULT (A&T)** (Stand #202)

Nowadays, Operators and EPCs are facing the need to reduce drastically projects' costs in order to maintain them livable or financially reasonable. In the same time, the whole market has got a strong need, especially in OFFSHORE & DEEPWATER activities, to guarantee high performances such as innovation, accuracy, reactivity and flexibility.

This is part of the reasons why the AVENTA TECNOCONSULT G.E.I.E. emerged, a Joint Venture between AVENTA (French Engineering company specialized in Offshore & Subsea Manpower services) and TECNOCONSULT (Italian Engineering company specialized in Offshore & Subsea design from Conceptual /Basic/ FEED to Detail Design and Installation calculations, with 30 years of experience in that market).

AVENTA TECNOCONSULT core business is OFFSHORE and DEEPWATER projects, particularly ENGINEERING & MANPOWER SOLUTIONS.

Thanks to the consolidated experience, innovative process, a cost effective organization of about 100 engineers in Italy and a unique algorithm for its sourcing, we are capable to provide our services at a strong competitive pricing level: a recent internal market survey indicated that we can SAVE 35% OF COSTS on clients projects compare to the competition. The staff is completed by 70 engineers working at Customer's premises.

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### Boskalis (Silver Sponsor)

Royal Boskalis Westminster N.V. is a leading global services provider operating in the dredging, maritime infrastructure and maritime services sectors. With a versatile fleet of 1,000 units Boskalis operates in around 75 countries across six continents. Excluding its share in partnerships, Boskalis has approximately 8,500 employees.

In addition to its traditional dredging activities Boskalis offers a wide variety of marine services and contracting for the international energy 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 salvage (through SMIT). Furthermore, Boskalis has a number of strategic partnerships in harbor towage and terminal services (Keppel Smit Towage, Saam Smit Towage, KOTUG SMIT Towage and Smit Lamnalco). The combined capabilities are unmatched in the industry and they are the foundation to helping our clients realize exceptional projects. This journey entails a relentless drive to exceed our client's expectations by working closely together across all phases and at different levels to create new horizons together.

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### Darco Valves (Stand #109)

DARCO is organized on a human scale and has a strong technical experience built up since 1998. It benefits from its own dedicated machining plant and workshop, and offers specially adapted products designed to transport many types of fluid corresponding to different temperature and pressure.

We present a large range of manual and/or actuated ball valves, with patterns for metal/metal design and double block and bleed valves that we export all over the world. The dimensions of our valves go from ½" up to 36" class 150 to 2500, API 5000 and 10000. With 15 years of experience behind us and innovations for the metal-metal design and double block and bleed valves, DARCO is able to meet specific requests that clients may have, or to incorporate the different features listed above in order to respond to the most exacting requirements.

Many clients all around the world already trust us for the quality of our products

### DimEye Laser Company (Stand #208)

DimEye Corp. is a High Technology company based in California, specialized in 3D measurement by Photogrammetry and Laser Technologies into hazardous environments.

DimEye has developed a very innovative and powerful solution for Subsea 3D Inspection and Measurement: the VLS™ (Video Laser Scan). VLS™ was developed to overcome specific measurement challenges in the Subsea Environment and has proven to be an extremely versatile and highly accurate 3D Subsea Metrology Tool. VLS™ can be mounted on ROV (Remotely Operated Vehicle), AUV (Autonomous Underwater Vehicle) or Drones and is providing High Accuracy 3D Measurement and CAD Modeling of any large volume subsea installation as well as High Density and High Accuracy Point Cloud of any component surface (such as dents, crack, gaps, weld profiles).

The main applications are related to Integrity Management, Modifications and Engineering, Simulations and Training.

### DORIS Engineering (Stand #200)

Renowned at international level since 1965, recipient of the OTC Distinguished Achievement Award in 2006, DORIS has been providing superior engineering services to the upstream oil & gas industry, for both offshore and onshore fields.

DORIS expertise covers: - offshore facilities, including steel/concrete, fixed/floating structures, deck and topsides, flowlines and risers, pipelines, subsea production systems, mooring systems, export systems, marine operations; - onshore facilities, including process plants, LNG terminals, clusters and pipelines; - harbour and coastal development.

DORIS can be involved at any stage of a greenfield or brownfield project, including: feasibility, screening and conceptual studies, FEED/basic engineering, detailed engineering, procurement services, technical assistance and project management services.

DORIS' strength lies in its highly qualified multidisciplinary teams of engineers and technicians. Most of them have a wide oil and gas industry experience, due to their long-term presence in the company.

The oil & gas industry is facing big issues, for which there is no single, simple answer.

We believe you can push the boundaries of what's possible with smart ideas, and superior engineering.

With specialized engineers working together, we deliver the upstream engineering services an oil company needs to enable the faster development and lower cost production from oil and gas fields.



### EMAS AMC (Associate Sponsor & Stand #501)

### Flexomarine (Stand #303)

Flexomarine is a Brazilian hoses manufacturer of floating and submarine hoses according to OCIMF/GMPHOM 2009 Guide. Celebrating 38 years with more than 14,000 hoses manufactured, Flexomarine is fully certified to supply all kind of hoses.



### Forsys Subsea Ltd. (Associate Sponsor & Stand #311)

Forsys Subsea is a 50/50 joint venture, between FMC Technologies and Technip. It unites the skills and capabilities of two subsea industry leaders, redefining the way subsea fields are designed, delivered and operated, for life.

Bringing the industry's most talented subsea professionals together early in the project concept phase to significantly reduce the cost of subsea field development and provide the technology to maximize production performance over the life of the field.

By combining leading technologies and competence of FMC Technologies and Technip, Forsys Subsea reduces the interfaces of the subsea umbilical, riser and flowline systems (SURF) and subsea production and processing systems (SPS). It also simplifies the seabed layout, reducing complexity, accelerating time to first oil, and maximizing sustainable peak production. This unique combination drives a new step-change approach to how system designs and installation methods converge in a new generation of subsea architecture.

Gathering the expertise of its parent companies, Forsys Subsea focuses on:

- Early involvement in the concept selection phase of front-end engineering and design, when ability to influence cost is greatest.
- Integrated life-of-field well surveillance, monitoring, data interpretation and advisory services.
- Joint R&D to drive technological innovations that will boost efficiency and further reduce development costs.

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### **Fugro impROV Limited (Stand #103)**

Established in 2002, Fugro-impROV is the Global Tooling Business Line within Fugro's Subsea Services Division. In-house R&D provides Subsea Engineering and Tooling Solutions specific to customer requirements supporting deepwater developments. In addition, Fugro-impROV provides a wide variety of Aftermarket Services, including life of field support and rental tooling. Fugro-impROV offers a comprehensive portfolio of remote intervention tools, multi-functional skids, subsea distribution and workover systems, along with bespoke connection systems giving SPS manufacturers, service contractors and E&P companies the capability to reduce cost and increase operational efficiencies. Recent innovations include an extended range of ROV deployable class 6 and class 7 torque tools, and a class 7++ with ultra-high torque capacity.

### **Innospection Ltd. (Stand #101)**

Innospection Ltd is an Integrity Support Specialist providing advanced and innovative inspection services and solutions for the integrity and lifetime assessment of topside, splash zone and subsea assets in the Oil & Gas industry. Innospection's splash zone and subsea inspection technologies are used worldwide as key tools for lifetime extension and fitness-for-service assessments. Electromagnetic inspection technologies such as Eddy Current and the next generation Magnetic Eddy Current (MEC) technique are used in combination with other advanced inspection techniques such as Pulse Eddy Current (PEC), high resolution Ultrasonic, laser triangulation and camera system, etc to provide reliable data for comprehensive assessments. In the splash zone and subsea area, Innospection supports the integrity assessment of flexible and rigid risers, caissons, conductors, subsea structures and pipelines, non-piggable pipelines, ship hulls, mooring lines, etc through the MEC-Combi inspection tools developed to provide comprehensive inspection data within a single deployment by work-class or inspection-class ROV, divers or rope access personnel. An advanced cleaning system can be also integrated for a simultaneous cleaning and inspection operation. Headquartered in Aberdeen, UK, Innospection serves a demanding global market together with its subsidiary offices in USA, UAE and Singapore, all supported by a large in-house R&D team in Germany.

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### **Koso Kent Introl (Stand #410)**

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 Topside 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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### **MODEC (Stand #104)**

MODEC is an owner/operator and EPCI general contractor specializing in engineering, procurement, construction and installation of floating production systems including Floating Production Storage and Offloading (FPSO) vessels, Floating Storage and Offloading (FSO) vessels, Tension Leg Platforms (TLPs), Production Semi-Submersibles, Floating LNGs (FLNGs), Mobile Offshore Production Units (MOPUs), Mooring Systems and other new technologies which will meet the challenges of various types of gas production floaters. MODEC provides Floating Production System operations and maintenance services around the world.

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### **Oil States Industries (UK) Ltd. (Stand #601)**

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

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### **OneSubsea (Gold 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 leverages Cameron's flow control expertise, process technologies and world-class manufacturing and aftermarket capabilities, along with Schlumberger's petro-technical leadership, reservoir and production technology, and R&D capabilities. OneSubsea's 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. OneSubsea currently has more than 6,000 employees in over 23 countries.

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### **PONTICELLI (Stand #406)**

Established in 1921 in France, and still a family company, Ponticelli Frères has expanded from its original core mechanical expertise into general contracting focusing on the energy and industrial sectors, including oil and gas (onshore and offshore), chemical and petrochemical as well as conventional and nuclear energy, in Europe, Middle-East and Africa. A broad experience in revamping and shutdown operations combined with management of internationally sourced prefabrication, have resulted in international recognition of our expertise in:

- offshore hook-up projects with or w/o carry-over,
- brownfield works (revamping, life extension, enhanced oil recovery, tie backs, ...) on an EPC basis or any other contractual arrangement,
- planning, preparation and execution of shutdowns (offshore/onshore),
- maintenance contracts (metal, mechanical, GMC).

Such activities have been developed internationally over the last 20 years, with a well-developed strategy of establishing local subsidiaries promoting local training schools and fabrication workshops. Safety is our first and foremost priority. The group has obtained wide recognition of its achievements among IOCs, after reaching a lost time injury frequency ratio of zero for several years in overseas operations.

- Group Turnover (2015): US\$ 1bn (50% in Africa, 50% in Europe)
- 5 500 employees

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## Quest Offshore

### Quest Offshore Resources (Conference Organizer & Stand #513)

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

marine construction segments globally.

Quest has created the world's largest repository of data detailing forecast and active Deepwater Projects worldwide focused on all the important drilling prospects yielding potential hydrocarbons for the future, leading to eventual development thru Floating Production, Subsea, Deepwater Pipelines, and Umbilical solutions. This extensive band of accurate data has also led Quest to provide many companies with "Global Market Overview and Indicator Reports", input on potential mergers/acquisitions, strategic information for future plans, facilities.

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

Please contact our representative at our stand number 513.

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### Royal IHC (Associate Sponsor & Stand #306)

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 3,000 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 (Stand #305)

We are one of the global leaders in the Engineering & Construction and Drilling businesses, with a strong bias towards oil & gas-related activities in remote areas and deep-waters. We excel in the provisioning of engineering, procurement, project management and construction services, with distinctive skills and capabilities in the design and execution of large-scale offshore and onshore projects. We also offer cutting-edge technologies for the gas monetization and heavy oil exploitation.

### Sandvik (Stand #508)

Sandvik is a global engineering Group with more than 47,000 employees with a strong commitment to enhancing customer productivity, profitability and safety. Bringing together Varel International, Downhole Products and Sandvik Materials Technology, Sandvik is active from drilling through to completions, manufacturing drill bits, reamer shoes, centralizers, downhole tubing and casing as well as control tubing for umbilical and downhole applications.

Having sales/service centres in key oil and gas locations globally, the combined expertise and product portfolio are able to support the needs of our customers in the most demanding environments, reinforced by over 2000 employees in R&D, fully integrated manufacturing, and unique materials capability in stainless steels and nickel alloys.

Sandvik, through Varel, Downhole Products and Sandvik Materials Technology have a long history of customer collaboration, and genuine partnership, backed up by a unique offering and reference list to the global oil and gas industry.

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### Shell Projects & Technology (Diamond Sponsor)

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



### SkoFlo (Associate Sponsor & Stand #405)

SkoFlo Industries designs and manufactures the highest quality pressure independent Chemical Injection Metering Valves (CIMVs) for the petroleum industry. SkoFlo's patented pressure-balanced technology is the best in its field; based on reliability, quality, response time, and accuracy.

SkoFlo is the industry's innovation leader. Every year, SkoFlo invests 20% of its profits to Research and Development (R&D), new products, technology, and engineering. Recently, the company won the OTC Spotlight on New Technology Award for its new subsea back pressure regulator valve. All of SkoFlo's products are highly engineered to maximize overall operator system and local control; as well enable the efficient stewardship of chemical resources.

The company is also investing in a structured product approach that will transform SkoFlo's design, operations, manufacturing, and assembly processes with the aim of reducing costs, increasing quality, and improving delivery time. This approach is explained more fully in SkoFlo's new Chemical Injection Product Catalog.

For over 26 years, SkoFlo has delivered over 20,000 valves for subsea and surface applications. SkoFlo is accredited to International Standards Organization, ISO 9001-2008. SkoFlo Industries and its state-of-the art machine shop are based in Woodinville, WA, USA.

SkoFlo Industries, Inc.  
www.skoflo.com

### SubCool Technologies Pty Ltd (Stand #110)

SubCool provides advanced subsea gas processing technologies to lower gas development costs. There are three compelling and innovative components:-

- i) Robust Active Subsea Cooling
- ii) Subsea Gas Dehydration,
- iii) A Low Cost Hybrid Deepwater Development Solution

The key strategy is to undertaking the right processing at the right location for both cost and project risk. This results in the unique SubCool Hybrid Concept :- not subsea, not surface, but the ultimate hybrid combination, with no distance limit.

- 1) High pressure gas is fully processed on the seabed
- 2) Low pressure liquids are processed on the surface, as well as incorporating local subsea support functions which minimise cost & risk.

SubCool Technologies are the solution to commercialise your gas asset.

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### Technip (Associate Sponsor & Stand #311)

Technip is a world leader in providing services to the energy industry.

We offer a complete range of world-class, life-of-field solutions for offshore facilities and subsea systems, from field development planning through to decommissioning. We help our clients optimize their projects through our conceptual engineering skills and innovative technologies, as well as the focus we put on early engagement. Our wide portfolio of solutions positions us as a valued partner for our client base, in order to deliver safe and successful projects.

#### Subsea

Technip is a key integrated player on the Subsea market thanks to an unmatched vertically integrated business model, and a portfolio of advanced subsea pipe and umbilical technologies, industrial and operational assets. Our most recent innovative technologies are active heating pipeline solutions for flow assurance, Carbon Fiber Armour for flexible riser weight and fatigue reduction, and Aluminium core cable power umbilical, improving deepwater capability and fatigue performance.

#### Offshore

In the offshore business, we are present on the whole value chain from the concept/select phase through FEED to EPC activities of all types of fixed and floating facilities. Our large portfolio of technological solutions including some proprietary designs are unique to propose answers to the challenges faced by our clients.

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### Teledyne Oil & Gas (Associate Sponsor & Stand #411)



Teledyne Oil & Gas is a market-focused group within Teledyne Marine that concentrates specifically on the performance requirements, industry specifications, and high reliability expectations of the onshore and offshore exploration, drilling, and production sectors of the oil & gas industry. Teledyne Oil & Gas works closely with research partner Teledyne

Scientific to develop and qualify cutting-edge materials to withstand harsh marine environments.

Teledyne Oil & Gas capabilities include:

Imaging solutions for inspection, recording, survey, mapping, and navigation.

Instrumentation for environmental sensing and monitoring, acoustic communication, acoustic release, navigation and station keeping.

Interconnect solutions for topside and subsea power and data transmission and distribution networks

Seismic solutions for exploration surveys, including seismic source, controllers, interconnect and streamer technology.

Subsea Vehicles with a range of USVs, ROVs, Tethered AUVs, gliders, floats and towed vehicles for mapping, survey, data collection, tracking, inspection and monitoring.

Together, these focused elements of Teledyne Marine offer a sea of solutions with the continuity benefits of working with one supplier.

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### Total (Host & Stand #401)



Energy is vital to economic development and improved standards of living. Wherever it is available, energy is helping to drive progress, but sustainability requires changes in the way that it is used and managed.

This is the environment in which we conduct our business. With operations in more than 130 countries, Total is a top-tier international oil company and a world-class natural gas operator, refiner, petrochemical producer, and fuel and

lubricant retailer.

Our nearly 100,000 employees leverage their globally acknowledged expertise so that together they can discover, produce, refine and distribute oil and gas to provide products and services for customers worldwide. More than 33,000 of them work in France, especially in the refining & petrochemicals and retail fuel distribution sectors.

We are also broadening our offering by developing energies that can partner oil and gas — today, solar energy and tomorrow, biomass.

As a responsible corporate citizen, we focus on ensuring that our operations consistently deliver economic, social and environmental benefits.  
www.total.com

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### UNITECH Offshore AS (Stand #506)

UNITECH has been building reliable, high quality connection systems for the subsea oil & gas industry for more than 30 years.

With offices in Europe, USA and Asia, UNITECH provides worldwide services.

UNITECH's core philosophy: "high reliability through low system complexity and high quality materials"

BRANDS: UNITECH, Subsea, Hydraulic Connector, Couplers, MQC Plate, Alpha, Charlie, Terminator, UH-550, UH-575, 15k Connector, Umbilical, Flying Lead, Bundle, Subsea system, high pressure, large connectors

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### Welltec A/S (Associate Sponsor & Stand #603)

Welltec develops and provides well technology and services for the oil and gas industry. Our technology and services are dedicated to aid in optimizing the performance of fields by providing the necessary solutions to do so, both in the form of well completion technology and intervention services required to ensure performance and integrity.

The solutions are applicable for all types of onshore and offshore well environments including the most extreme and hostile ones such as deepwater, subsea, extended reach, high-yield, heavy oil and unconventional gas well environments. All phases of a well's life are covered, from appraisal to plug and abandonment.

Welltec is a solution-driven company where we develop and apply proven technology to address the challenges of tomorrow's needs. We therefore continue to push the boundaries of conventional oil field technology to their limits and force the only constant parameter we know, i.e. change. Only through constant change are we capable of capturing the necessary improvements to assure a strong future for our stakeholders: industry, clients and employees.

Our lightweight solutions are based on clean technology and a determination to enhance personnel safety and health while reducing the environmental risks, fuel consumption and carbon footprints.

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### Wood Group (Stand #301)

Wood Group is an international energy services company with over \$6bn sales and operating in more than 50 countries. The Group is built on Core Values and has three businesses – Wood Group PSN, Wood Group Kenny and Wood Group Mustang – providing a range of engineering, production support and maintenance management services to the oil & gas, and power generation industries worldwide. Visit Wood Group at www.woodgroup.com and connect with us on LinkedIn and Twitter.

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www.woodgroup.com

### Zetechnics (Stand #210)

Zetechnics manufactures and supports the 'Jupiter' Subsea Control Solutions, Torque Verification Systems (Class 1-4 API 17D, 17H, Class 5 and Petrobras standard) and Subsea Sensors to measure torque, flow, turns count or both. In addition to this, Zetechnics now offers a turnkey tooling solution with the introduction of the Class 1-4 and Class 5 Torque Tools. Recent product developments include the Jupiter RCU System and the Subsea 'In Line' Contamination Monitor (ICM), which was designed to monitor hydraulic system fluids. Zetechnics also supports C-Kore – an Umbilical and Jumper Monitoring Device checking integrity of umbilical from surface to seabed.

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# COMMITTED TO SMART IDEAS

Leading in the deep offshore through successful innovation



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