

2019

# MCEDD

DEEPWATER DEVELOPMENT

2-4 APRIL, 2019 | LONDON, UK  
NOVOTEL LONDON WEST | [MCEDD.COM](http://MCEDD.COM)

ORGANIZED BY:



Quest Offshore

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CONFERENCE PROGRAM SPONSOR:



TOTAL

# WELCOME LETTER

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Conference participants,

Welcome to the MCEDD 2019 conference!

The theme of this year’s conference “Remaining Competitive in a Rising Tide” is a timely one, especially with the challenges that the industry continues to face. While we seek to address these growing issues together, the world will not stand still. It’s a time in which we are seeing technologies enter uncharted waters and solutions being developed that were once thought to be impossible.

The world around us is changing, demanding us to keep up and this underpins why conferences like these are valuable. During this conference, we have an opportunity to collaborate and share different perspectives, both as operators and contractors. The relationship between these two is key to our future success and working together will be what leads us to the right and most effective solutions for our current and future deepwater projects.

There has been a lot of interest in the technical program for the 2019 conference and this should make for a meaningful next few days. You will cover the latest technologies and trends that will inform the way forward for all of us playing into the deepwater agenda.

Once again, welcome to the conference and I wish you a productive time here in London!

David O’Connor  
Head of global projects, Upstream, BP



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# AGENDA

Exhibition Hall - Chablis (Ground Floor)
Track 1 - Session Room: Cremant - Mancy & Avize (1st Floor)
Track 2 - Session Room: Cremant - Morangis (1st Floor)







## Tuesday 2 April 2019

08:00 - 19:00	Registration & Badge Pick-Up <i>sponsored by</i>  magma • Exhibition Hall
08:00 - 17:00	Exhibitor Set-Up • Exhibition Hall
14:30 - 15:30	Advisory Board Meeting • Room: Chalon (1st Floor)
16:00 - 16:30	Keynote Address
16:30 - 18:30	Operator Forum
18:30 - 20:30	Ice Breaker Reception <i>sponsored by</i>  • Exhibition Hall

## Wednesday 3 April 2019

07:00 - 17:45	Registration & Badge Pick-Up <i>sponsored by</i>  magma • Exhibition Hall
07:00 - 08:00	Continental Breakfast <i>sponsored by</i>   • Exhibition Hall
08:00 - 10:30	Contractor Forum
	Operator Contractor Panel Session
10:30 - 11:15	Coffee Break <i>sponsored by</i> AFGlobal  • Exhibition Hall
11:15 - 12:45	Subsea Technologies
	Floating Production Systems
12:45 - 14:00	Lunch <i>sponsored by</i>   followed by Dessert & Coffee • Exhibition Hall
14:00 - 15:30	Flexibles & Composites
	Disruptive Technologies and The Digital Transition
15:30 - 16:15	Coffee Break <i>sponsored by</i> AFGlobal  • Exhibition Hall

16:15 - 17:45	Marine Construction
	Subsea Reliability and Predictive Maintenance
18:00 - 19:30	Evening Reception sponsored by  Subsea Integration Alliance • Exhibition Hall <small>OneSubsea &amp; Subsea 7</small>

Thursday 4 April 2019	
07:30 - 16:00	Registration & Badge Pick-Up sponsored by  magma • Exhibition Hall
07:30 - 08:30	Continental Breakfast sponsored by   • Exhibition Hall
08:30 - 10:30	Finance & Investment and Market Outlook
10:30 - 11:15	Coffee Break sponsored by  AFGlobal • Exhibition Hall
11:15 - 12:45	Surface, Well and Drilling Technologies
	Opportunities in Renewables and Floating Offshore Wind
12:45 - 14:00	Lunch followed by Dessert & Coffee • Exhibition Hall
14:00 - 15:30	Technology Qualification and Subsea Standardization
	Flow Assurance
15:30 - 16:00	Awards & Closing Remarks sponsored by   • Exhibition Hall
16:00 - 20:00	Exhibition Tear-Down • Exhibition Hall

Join at [slido.com](https://slido.com) to submit your questions for each sessions' Q&A.

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Event Code

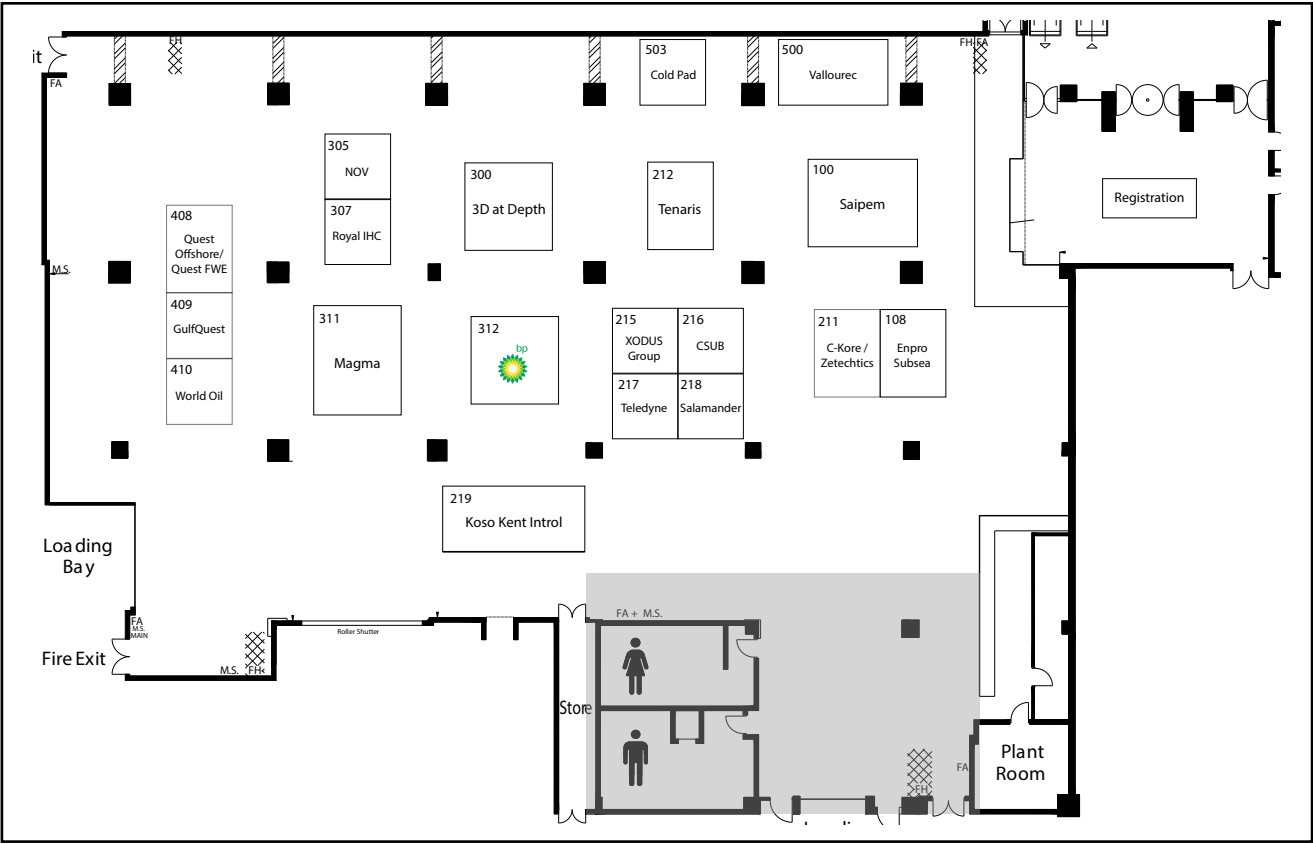
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Oil & Gas

You can also use the wireless microphone for live questions during Q&A.

# 2019 EXHIBIT FLOOR PLAN



## EXHIBITOR DIRECTORY

### Alphabetically:

3D at Depth .....	300
BP .....	312
C-Kore .....	211
Cold Pad.....	503
CSUB .....	216
Enpro Subsea .....	108
GulfQuest.....	409
Koso Kent Introl .....	219
Magma .....	311
NOV .....	305
Quest FWE.....	408
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Royal IHC .....	307
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Teledyne.....	217
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Vallourec .....	500
World Oil .....	410
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Cold Pad.....	503

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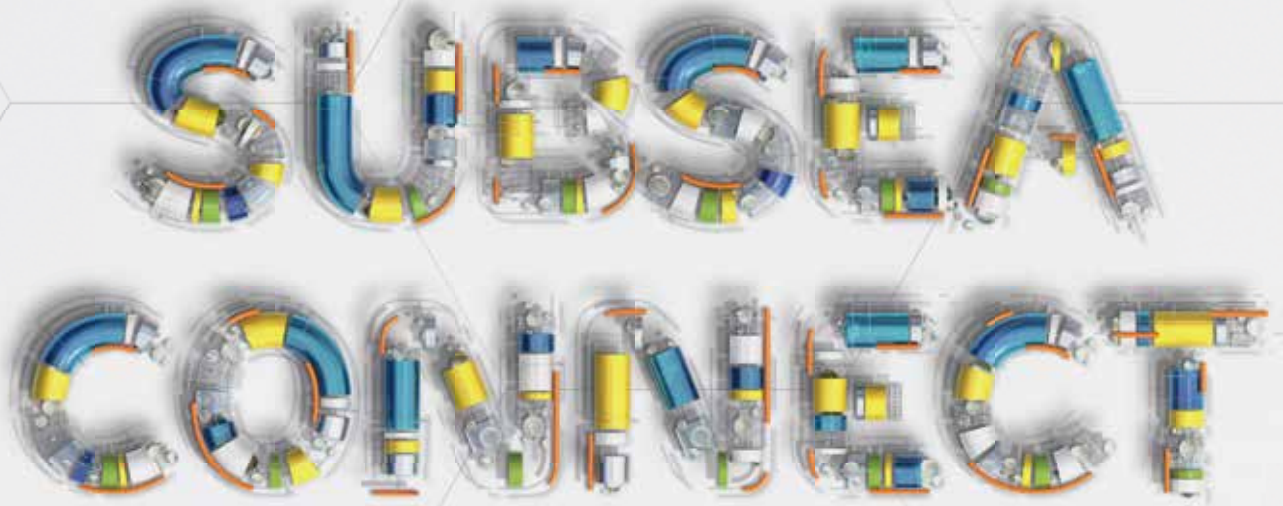


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# TECHNICAL PROGRAM

## TUESDAY, 2 APRIL 2019

16:00–16:30

### TRACK 1:

#### Keynote Address:

Chair: Paul Hillegeist, Director, **GulfQuest**

- David O'Connor, Head Global Projects Organization, **BP**, *Competitive Subsea Developments in a Transitioning Energy Landscape*

16:30–18:30

### TRACK 1:

#### Operator Forum

Moderator: Chris Barton, Senior VP Business Development Offshore, **Wood**

Chair: Paul Hillegeist, President, **Quest Offshore**

- Adrian Luckins, Vice President – Projects: Americas, North Sea & Subsea Systems, **BP**, *Advancing Subsea*
- Jean-Hervé Morard, Deputy Vice President Deepwater and Subsea, **Total**, *Deepwater, Between Boldness and Discipline*

18:30–20:30

Ice Breaker Reception Sponsored by



## WEDNESDAY, 3 APRIL 2019

07:00–08:00

Continental Breakfast Sponsored by



08:00–10:30

### TRACK 1:

#### Contractor Forum

Moderator: David Bloom, Corporate Client Relations Director, **Subsea 7**

Moderator: Kurt Abraham, Editor, **World Oil**, Chief Forecaster, **Gulf Energy Information**

- Andrew Atkinson, Global Commercial Director, **Baker Hughes GE**, and Mahesh Swaminathan, Vice President Commercial, **McDermott**, *Integrated Delivery of Subsea Projects: Case Studies from BHGE and McDermott*
- Stuart Fitzgerald, Executive Vice President Strategy & Commercial, **Subsea 7**, *Subsea Integration Market Trends*
- Knut Boe, Senior Vice-President for Subsea Projects, **TechnipFMC**, *Integrated Solutions: Capturing the Value of iEPCI™*
- Mads Hjelmeland, Vice President - Processing Systems, **OneSubsea - A Schlumberger Company**, *How to Remain Competitive in a Rising Tide*

08:00–10:30

**TRACK 1:**

**Operator Contractor Panel Session**

Moderator: David Bloom, Corporate Client Relations Director, **Subsea 7**

Moderator: Kurt Abraham, Editor, **World Oil**, Chief Forecaster, **Gulf Energy Information**

- Adrian Luckins, Vice President – Projects: Americas, North Sea & Subsea Systems, **BP**
- Jean-Hervé Morard, Deputy Vice President Deepwater and Subsea, **Total**
- Michael Gassert, VP Offshore & Pipelines, **EniProgetti**
- Andrew Atkinson, Commercial Director, **Baker Hughes GE**
- Mahesh Swaminathan, Vice President Commercial, **McDermott**
- Stuart Fitzgerald, Executive Vice President Strategy & Commercial, **Subsea 7**
- Knut Boe, Senior Vice-President for Subsea Projects, **TechnipFMC**
- Mads Hjelmeland, Vice President - Processing Systems, **OneSubsea - A Schlumberger Company**

10:30–11:15

**Coffee Break** Sponsored by **AFGlobal** 

11:15–12:45

**TRACK 1:**

**Subsea Technologies**

Chair: François THIEBAUD, Chief Technical Officer, **DORIS Group**

Co-Chair: Steve Hall, Chief Executive Officer, **SUT**

- Tim Farrant, Subsea Engineering Manager, Shah Deniz Phase 2 Project, **BP**, *Subsea Technology Development and Enablers Shah Deniz 2 project – Azerbaijan*
- Jostein Tvedt, Sales Manager – Subsea Processing Systems, **OneSubsea - A Schlumberger Company**, *Dalmatian Subsea Boosting – Reaping the Benefits of New Contract Models and Proven Technology*
- Torbjørn Hegdal, Business Development Manager, **NOV Completion & Production Solutions**, *Extend Field Life and Increase Oil Recovery using Subsea Water Treatment and Injection*
- Dr. Thomas I. Valdez, Manager, Chemical Engineering, **Teledyne Energy Systems**, *Developing Innovative Untether*

**TRACK 2:**

**Floating Production Systems**

Chair: Boyd Howell, Director of Sales & Marketing, **MODEC**

Co-Chair: Stuart McDonnell, Senior Project Manager Project Delivery & Assurance, **OMV Exploration & Production**

- David Boggs, Managing Director, **Energy Maritime Associates**, *FPSO Outlook & Trends*
- Luiz Feijo, Director Global Offshore, **ABS**, *Floating Production Units in the Digital Era*
- Anders Martin Moe, Project Development Manager - Floating Production, **Wood**, and Are Torstensen, Director of Technology and Service Development, Offshore Classification, **DNV GL**, *Investigating Opportunities and Challenges for Unmanned Floating Production Facilities*
- Christophe Paillusseau, Vice President Sales & Marketing, **COLD PAD**, *In Situ FPSO Deck Repair - Project Lessons Learnt from a World First Deepwater West Africa*

# TECHNICAL PROGRAM

12:45–14:00

Lunch followed by Dessert &amp; Coffee

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14:00–15:30

## TRACK 1:

### Flexibles & Composites

Chair: David Kaye, Director, Rigid Pipeline and Installation Technologies, **TechnipFMC**Co-Chair: Henk Cornegé, Director Offshore Oil & Gas Market, **Royal IHC**

- Wadih Malouf, Subsea Engineer, **BP**, *West Nile Delta: High-Pressure High-Temperature Flexible Flowline Case Study*
- Thomas Epszstein, Composite Materials Project Manager, **TechnipFMC**, *Hybrid Flexible Pipe: A Technology Step Change to Address New Deep-Water Challenges*
- David Charlesworth, Head of Engineering, **Magma Global**, *Roadmap to the All TCP Riser*
- Vineet Jha, Principle Engineer Composite, **Baker Hughes GE**, *Aptara™ Totex-Lite Composite Flexible Pipe*

## TRACK 2:

### Disruptive Technologies and The Digital Transition

Chair: Steve Hall, Chief Executive Officer, **SUT**Co-Chair: David Saul, Engineering Technical Authority - Subsea, **BP**

- Neil Manning, COO, **3D at Depth**, *The Disruptive Technology Challenge: Grab the Jet Pack Before Stepping Off the Edge – Crossing the Canyon from Start Up to Global Market Position*
- Duncan McLachlan, Director Systems Engineering & QHSSE, **io Oil & Gas Consulting**, *Digital Silos Don't Yield Value*
- Demetri Stroubakis, Director - Vendor Market Sector Lead, Corporate Global Business Development, **ABS**, *Remote Inspection Technology (RIT) for Manufacturing and Operations*
- Soichi Ide, Vice President, LATAM and Ghana Operation, **MODEC**, *Digitalization: An Enabler of Evolution*

15:30–16:15

Coffee Break

Sponsored by

AFGlobal


16:15–17:45

#### TRACK 1:

#### Marine Construction

Chair: Henk Cornegé, Director Offshore Oil & Gas Market, Royal IHC

Co-Chair: David Bloom, Corporate Client Relations Director, **Subsea 7**

- Helge Hagen, Project Manager, **Equinor**, *Aasta Hansteen – A Pioneer in Norwegian Deepwater*
- Walter Antonio Kapp, IHC Robotics R&D Advisor, **Royal IHC**, *Increasing Deepwater Pipelay Productivity through the Output of the Firing Line*
- Gianbattista Curti, Technical Manager, **Saipem**, *Challenges and Lessons Learnt from the Design, Fabrication, and Installation of Pipe Walking Mitigations*
-  Gautier Dreyfus, CEO, **Forssea Robotics**, and Gary Bagot, Product Manager, **iXblue**, *AGILE LBL: Low-Cost Frame Deployment, Calibration & Recovery*

#### TRACK 2:

#### Subsea Reliability and Predictive Maintenance

Chair: Jan van den Akker, Technical Authority Controls Systems, **OneSubsea - A Schlumberger Company**

Co-Chair: Martin van Onna, Chief Commercial Officer and Deputy CEO, **Airborne Oil & Gas**

- David Saul, Safety and Operational Risk Central Engineering Subsea Technical Authority, **BP**, *Better than New, Enhancing Subsea Reliability on Q204*
- Aslaug Melbø, Senior Product Manager, **Baker Hughes, a GE Company (BHGE)**, *Ensuring Safety and Reliability of All-Electric Systems*
- Dr. Subrata Bhowmik, Senior Subsea Engineer, **McDermott International**, *DIOT: An Intelligent Predictive Maintenance Strategy for Subsea Structure*
- John Goodey, BP Global Subsea Systems Lead Controls and HIPPS Engineer, **BP**, *How do you Shut Down an All-Electric Tree?*

18:00–19:30

Evening Reception *Sponsored by*

**Subsea** Integration Alliance  
OneSubsea & Subsea 7

# TECHNICAL PROGRAM

## THURSDAY, 4 APRIL 2019

07:30–08:30

Continental Breakfast *Sponsored by*

08:30–10:30

### TRACK 1:

#### Finance & Investment and Market Outlook

Moderator: Peter Ramsay, Editor, **Petroleum Economist**

- James West, Senior Managing Director, **Evercore ISI**, *Dear Oilfield: Time to Deliver Returns*
- David Phillips, Managing Director, Head of Equity Research, Developed Europe, Global Research, **HSBC Bank**, *Remaining Competitive in a Rising Tide: Deepwater & Digital Disruption*
- Professor Paul Griffin, Special Adviser, Oil & Gas, **White & Case**, *Enduring Investments in Deep-Water Oil and Gas*
- Rob West, Founder & CEO, **Thunder Said Energy**, *Attracting Capital to Deep-Water Oil and Gas? An Analyst's Perspective*

10:30–11:15

Coffee Break *Sponsored by* **AFGlobal**

11:15–12:45

### TRACK 1:

#### Surface, Well and Drilling Technologies

Chair: Chris Barton, Senior VP Business Development Offshore, **Wood**Co-Chair: Caroline Alting, Head of Engineering and Projects, **Maersk Drilling**

- Youssef AMGHAR, Head of Drilling & Wells Engineering, Deepwater Product Line, **Total**, *Total Exploration Standardization*
- Ezenna Okolie, Business Development Manager Africa, Oil and Gas, **Sandvik**, *A Global First: Running a Corrosion Resistant Alloy (CRA) Completions Tubing String in Stands of Three Pipes (Triples) Using Dope-Free Technology in a Deep Water Field in Angola*
- Dieter Wijning, Product Manager Drilling, **Huisman Equipment BV**, *Field Development Semi-sub with Heave Compensated Drill Floor to Improve Efficiency, Safety and Impact on the Environment*
- Youssef AMGHAR, Head of Drilling & Wells Engineering, Deepwater Product Line, **Total**, *KEM Initiative in Deepwater Drilling*

### TRACK 2:

#### Opportunities in Renewables and Floating Offshore Wind

Chair: Erik Rijkers, Director - Market Development & Strategy, **Quest Floating Wind Energy**Co-Chair: Carl-Petter Halvorsen, VP Business Development, **CSUB**

- Marie Féron, Project Engineer, **DORIS Engineering**, *Floating Offshore Wind: A Simplified Approach of Aero-Hydrodynamic Coupling to Optimize the Mooring System Design*

- Jérôme RIBUOT, Renewable Energy Development Director, **Saipem**, *Innovative Competitive Offshore Energy Production*



- Evgeniy Dimkin, Marine Engineer, **DNV GL**, *Shared Anchor Solutions for Floating Offshore Windfarms*

- Peter Tipler, Renewables Director, **Xodus Group**, *Adding Renewables to Oil and Gas Facilities: Challenges and Opportunities*

12:45–14:00

Lunch followed by Dessert & Coffee

14:00–15:30

## Late Morning Session

### TRACK 1:

#### Technology Qualification and Subsea Standardization

Chair: Jan van den Akker, Technical Authority Controls Systems, **OneSubsea - A Schlumberger Company**

Co-Chair: Kurt Abraham, Editor, **World Oil**, Chief Forecaster, **Gulf Energy Information**

- Kevin Hunn, Lead Concept Engineer, Global Subsea Systems, **BP**, *Assessing the Value of Subsea Technologies at the Front End*
- Daniele Petrone, Subsea Production Optimisation & Asset Integrity Manager, **OneSubsea - A Schlumberger Company**, *uROV – The Next Generation IMR Platform Utilizing Supervised Autonomy*
- Ted Fletcher, IOGP-JIP33 Integration Chair, **International Association of Oil & Gas Producers (IOGP)**, *IOGP JIP33 - Standardization of Procurement Equipment Specifications: A Foundational Step Change in Facility Cost and Schedule Reduction*
- Matthew Green, Subsea Engineer, **BP**, *Subsea Technology Qualification - Meet the All New API 17Q*

### TRACK 2:

#### Flow Assurance

Chair: Phil Cooper, Corporate Development Director, **Xodus Group**

Co-Chair: Eric Meyer, R&D Deep Offshore – Program Manager, **Total E&P**

- Xavier Henneuse, Flow Assurance Specialist, **TechnipFMC**, *Kaombo; A New Methodology to Validate as Built Thermal Performances*
- Alex Stanning, Senior Project Engineer, **Subsea 7**, *Real-Time Dynamic Management of Heat-Loss from a Flowline in Response to Changing Reservoir Characteristics*
- Rune Høstmark, Product Manager, **National Oilwell Varco - Subsea Production Systems** and Francois-Xavier Pasquet, R&D Deep Offshore Program Operations Representative, **Total**, *Subsea Automated Pigging Solutions to Enable Long Tie-Back Developments*
- Christophe Candelier, Flow Assurance Specialist, **Total E&P**, *NADAH: New Approach of Design Against Hydrates*

15:30–16:00

Awards & Closing Remarks Sponsored by  **MODEC**  **SOFEC**



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# ADVISORY BOARD AND SESSION CHAIRS

## CHAIRMAN



### David O'Connor

Head of Global Projects Organization  
**BP**

David currently serves as BP's Head of Global Projects, accountable for the delivery of all Upstream projects across the world. He manages an annual budget of around \$10 billion gross that covers onshore, offshore and deepwater projects.

Prior to this role, David was the Vice President of Deepwater projects and over his extensive career spanning over 36 years in industry, he has worked around the world in technical and managerial roles in Houston, Alaska, Algeria, North Sea, and Egypt. David has previously served as President and General Manager for BP's business in Sharjah, UAE.

David graduated from Heriot Watt University, Edinburgh, Scotland with a bachelor's degree in civil engineering and master's degree in petroleum engineering and joined Amoco in 1983.

David is married with two children and resides in Houston.

Caroline previous job roles includes, Deputy Asset Manager for the Deepwater Asset team supporting the operational activities for the Drillship fleet and before that managing a local technical team of the MD Project 20KTM stationed in Houston focusing on new development.

Caroline has worked for the AP Moeller Maersk Group for 15 years also working some years for Maersk Oil. Caroline is an MSc in Chemistry from the Technical University of Denmark graduating in 2000.



### Christopher M. Barton

Senior Vice President Business Development  
Offshore  
**Wood**

10+ Year Advisory Board Member

Christopher M. Barton is currently Sr. Vice President, Business Development for Wood. Chris is based in Houston where he has business development responsibility for Wood's Offshore business unit. He has over 38 years' experience in the upstream oil and gas industry and has held senior roles with McDermott, ABB, Technip, KBR and FloaTEC. Since commencing his career as an offshore Field Engineer with McDermott in Singapore, Chris has worked in a wide variety of roles encompassing Offshore Operations, Fabrication Operations, Project Management, Business Development and Executive Management. Chris career has taken him to Singapore, Malaysia, Indonesia, Egypt, Australia and USA. His experience covers all aspects of the upstream industry, including B2B publishing and conference management as Group VP and Publisher of Offshore Magazine at PennWell.

Chris received his Bachelor of Science degree in Civil Engineering from Texas A&M University in 1980. He is married to a Swede and has two grown daughters and one grandson.

## ADVISORY BOARD



### Jan van den Akker

Technical Authority Controls Systems  
**OneSubsea**

5+ Year Advisory Board Member

Jan van den Akker is the control systems technical authority for OneSubsea. He acts as a technical advisor and is responsible for

technical assurance and compliance of subsea controls systems. Prior to the 2013 formation of OneSubsea, Jan had more than 20 years of experience in the oil and gas industry. Since joining Cameron in 1990, Jan has been involved in many subsea, surface, and drilling projects across the globe. His experience ranges from product development and project execution to business development. Jan earned his master of science degree in mechanical engineering from Delft University of Technology.



### David Bloom

Corporate Client Relations Director Subsea 7  
and Client Relations Director for IMCA  
**Subsea 7 & IMCA**

15+ Year Advisory Board Member

David joined the Offshore Industry in 1975 with Oceaneering in Finance. In 1982 he transferred to be the General Manager of their North Sea and Africa business. In 1986 he became the Business Development Director for the North Sea and West Africa. After 20 years He left in 1995 to Join Jay Ray McDermott as Business development Manager for UK Europe within their McDermott Subsea business. In 1998 he joined the Brown Root Organization as Business Development Manager, responsible then for Rockwater's and Brown and Root projects in the North Sea. David has been involved in the growth of Subsea 7 from the integration of Rockwater and Subsea Offshore: DSND and lately the Acergy, Subsea 7 merger where he had the role of Corporate Business Development Manager. In 2016 he accepted his current position of Corporate Client Relations Director together with similar position for IMCA the International Marine Trade Association.



### Caroline Alting

Head of Engineering and Projects  
**Maersk Drilling**

Caroline Alting is currently the Head of Engineering and Projects in Maersk Drilling. Caroline's department focuses on the core business of drilling, securing the compliance and engineering approach while also challenging the steady state

and supporting innovative initiatives.



## Phil Cooper

Corporate Development Director  
**Xodus Group**

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

KW Ltd.

His career includes design of complex subsea systems comprising pipelines, flowlines and associated structures, spools and hardware - contributing to technical advances in deepwater, pipe-in-pipe, arctic and seismic design along the way.

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



## Henk Cornegé

Director Offshore Oil & Gas Market  
**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's focus was on this market prior to the downturn. After a period as Business Development Manager for the offshore sector Henk is currently active as Royal IHC's Director Offshore Oil & Gas Market.



## Michael Gassert

VP Offshore & Pipelines  
**EniProgetti**

Michael Gassert is a Civil and Naval engineer, graduated from the Ecole Nationale des Ponts et Chaussées of Paris and the Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos of Madrid. He is currently Vice President

of Offshore & Pipelines in Eni/EniProgetti. From already several years, he is in charge of pipelines, subsea, deepwater and offshore projects development architectures, definition, engineering and supplies.



## Iain Grainger

Vice President Commercial  
**McDermott**

5+ Year Advisory Board Member

Iain has 35 years' experience in the oil and gas industry predominantly with major international oil and gas contractors. He is currently Vice President Commercial at McDermott International Inc. He holds a Bachelor of Science degree in Civil Engineering from Heriot-Watt University and an MBA from Warwick Business School. Iain is a Chartered Engineer and a Member of the Institute of Marine Engineering, Science and Technology (MIMarEST). He is also President of the International Marine Contractors Association (IMCA).



## Steve Hall

Chief Executive  
**SUT**

Steve Hall joined SUT ([www.sut.org](http://www.sut.org)) as CEO in April 2017 after over 25 years working for the UK's National Oceanography Centre and Natural Environment Research Council, where over the last decade he specialised in ocean science policy and law, advising UK, UN and EU decision makers on

a policy issues including offshore renewable energy, decommissioning, fisheries, marine spatial planning, capacity development and industry engagement. He led the UK delegation to UNESCO's Intergovernmental Oceanographic Commission and was elected vice chair of UNESCO-IOC between 2015 and 2017 for North America and Western Europe, Greece and Israel.

Prior to that he managed the early 'Autosub' AUV science missions programme, worked as a tracer chemist at sea, and was the schools and colleges liaison officer. Steve started his career in a small industrial engineering survey firm, joining HM Customs & Excise between 1987 and 1990 as a hydrocarbons specialist supervising pipeline installations to UK oil refineries. He also served as a reservist in the Royal Naval Reserve and Royal Observer Corps.

He has been a member and later Fellow of SUT since the 1990s, where he was elected twice to Council and is a Fellow and Chartered Marine Scientist of the Institute of Marine Engineering, Science and Technology IMarEST. His interests include marine science education, ocean stewardship, autonomous systems & defence, and technology foresight.



## Carl-Petter Halvorsen

VP Business Development  
**CSUB**

5+ Year Advisory Board Member

Carl-Petter Halvorsen has more than 35 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, inspection and subsea construction work. He started off with Ugland Offshore, which later became DSND, and later became Subsea7. Moved to Newcastle

## ADVISORY BOARD AND SESSION CHAIRS

for Wellstream in 2001 as their Business Development Director and stayed until a management buy took place in 2004. Then started working through his own company Consultare Ltd, supporting business in UK and Norway to grow their business, among others PSI –now TDWilliamson, Marine Subsea Group, Stats Group and others. 10 years ago he was one of the founders of flexlife Ltd. based in Aberdeen, flexlife Ltd. was growing to 75 people, he left flexlife Ltd. spring 2011. He is also now involved in M&A and corporate finance opportunities as an independent working with among others Kawasaki Subsea in developing an AUV. He represents CSUB as VP Business Development on the advisory board.



### Eric Hansen

Commercial Manager Africa and South Atlantic

**Saipem Offshore Business Unit**

15+ Year Advisory Board Member

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 TechnipFMC) as Project Manager in 1989.

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

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

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

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



### Paul Hillegeist

President & COO | Director  
**Quest Offshore | GulfQuest**

Paul Hillegeist is an entrepreneur and thought-leader with expertise in the offshore energy industry, developed during his successful 29-year career in the field. Paul began as a market strategist, working for two major companies before

launching his own business, Quest Offshore Resources, Inc., with two partners in 1999.

While serving as President and COO of Quest Offshore, Paul developed and was a partner in several start-up entities related to the business. In 2016, he successfully sold Quest's Data & Subscription division to Verisk Analytics, VRSK (NASDAQ). Most recently, he co-founded Quest Floating Wind Energy, an innovative start-up delivering market insight, predictive analytics and supply chain insight.

Throughout his career he has worked closely with C-Suite leaders of major client companies developing strategic relationships and building collaborative growth initiatives. Specifically, these include upstream energy-focused International Oil Companies, National Oil Companies, Independent producers, tier-one supply chain, industrial conglomerates, sell-side and buy-side global financial firms, institutional investors, renewables developers and mid-stream transportation companies.

Paul holds a Bachelor of Arts degree in Economics from The University of Texas at Austin. In his free time, Paul enjoys Longhorn Football games and spending time with his family and golden retrievers in the Texas Hill Country boating, fishing and hunting.



### Boyd Howell

General Manager, Sales & Marketing  
**MODEC**

Mr. Boyd Howell is General Manager of Sales & Marketing at MODEC International, Inc. the Houston-based affiliate of Tokyo-based MODEC, Inc. one of the world's largest and most experienced designers, builders and operators of complex floating offshore structures for the international

energy industry.

Mr. Howell has been working the Offshore Oil and Gas Industry for over 30 years. The past 22 of which has been focused on Turret-moored and Spread-moored ship-shaped FPSO and FSO systems as well as TLPs and production Semis for implementation worldwide. Mr. Howell has held positions as Engineering Manager, Project Manager and Interface Manager for a number of FPSO and FSO projects, before transitioning into Sales and Marketing.

Mr. Howell holds a Bachelor of Engineering & Naval Architecture Degree from Memorial University in Newfoundland, Canada and a diploma from Rice University Executive Education Department – Graduate School of Management; in Houston Texas.



### John Kachantonos

Offshore Installation Global Category  
Manager  
**Shell**

A 15 year Shell veteran, with a focus to develop global procurement strategy, lead contract negotiations, and manage supplier relationships and performance for various categories of spend within

the Shell group. Focus spend areas have included process automation products and associated services, electrical equipment and services, and marine offshore installation services.

John is a graduate of Oklahoma State University.



## David Kaye

Director, Rigid Pipeline and Installation Technologies | Subsea GBU  
**TechnipFMC**

David Kaye is Director of Rigid Pipeline and Installation Technologies at TechnipFMC. He is based at the TechnipFMC Innovation and Technology Centre in Rueil-Malmaison, Paris. He has more than 25 years of experience in engineering for offshore oil and gas and renewables industries, including subsea pipeline design, installation and operation. He has worked in a variety of engineering management and senior management positions for TechnipFMC and other companies. He has a degree and PhD from Cambridge University, is a Chartered Engineer in the UK, and a Fellow of the Institute of Marine Engineering Science and Technology and a Fellow of the Society for Underwater Technology.

Stuart has experience from both Contractor and Oil companies. His project delivery & engineering leadership experience covers, FPSO hull & topsides, production swivels, mooring systems, marine operations, construction execution, and class approvals. He has lead various contract negotiation and dispute resolution, joint venture, and regulatory approval activities. Stuart has successfully concluded S&P contracts, O&M contracts, FSO redeployment, and significant marine insurance claims.

He is currently based in Stavanger, Norway for OMV Upstream.



## Wilfrid Merlin

CITEPH Program Director  
**EVOLEN**

Wilfrid Merlin is currently Director of Citeph, the open innovation programme of the cluster EVOLEN. He started his career at Technip in 2013, where he held positions in R&D, technical studies and open innovation.

Mr. Merlin is a member of the board of EVOLEN and has a master's degree in Innovation Management from Université Paris-Dauphine and an MSc Offshore Engineering from SeaTech Ecole d'Ingénieurs (France).



## Frans Pieter Lindeboom

Category Manager Offshore Rigs  
**Repsol Exploration SA**

5+ Year Advisory Board Member

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.



## Eric Meyer

R&D Deep Offshore – Program Manager  
**Total E&P**



## John MacLeod

Chief Technology Officer/Sr. Vice President  
**Aker Solutions**

BEng, MSc education. More than 25 years in Energy / Oil and Gas Industry. Employed with Operators and Contractors. 20 years employment with Aker Solutions in Products, Operations and MD roles. Currently CTO. Have lived and worked in

UK, Australia, Norway, Brazil and Malaysia. Home is in Norway.



## Steve Moulder

Business Development Manager  
**Ampelmann**

Steve was appointed Business Development Manager for Weir Pressure Control in May 2017. Steve is responsible for new sales development, in the EMEA region He brings 24 years of broad experience and knowledge in the oil and gas business, and has worked for multinational companies including Orbit Valve, NATCO, BP, GE, KBR and Ampelmann. He has been involved in notable projects around the world. Steve is a United Kingdom citizen currently based in Qatar.



## Stuart McDonnell

Senior Project Manager Project Delivery & Assurance  
**OMV Exploration & Production**

Stuart is a Chartered Engineer, he graduated in 2003 with a Bachelor of Engineering in Naval Architecture from the Australian Maritime College, and has since completed Post Graduate studies in

Law from the University of Edinburgh. Stuart has 15 years' experience across the full lifecycle of offshore upstream developments.



## Martin van Onna

Chief Commercial Officer and Deputy CEO  
**Airborne Oil and Gas**

Martin van Onna started Airborne Oil & Gas in 2007 as a business unit of Airborne International. After 5 years, during which he pioneered the development of Thermoplastic Composite Pipe

## ADVISORY BOARD AND SESSION CHAIRS

technology, developed the company and pilot production, and following the company's relocation and establishment as independent company, he moved to his current role of Chief Commercial Officer and Deputy CEO. In this role he is responsible for the successful market entry and business development of Thermoplastic Composite Pipe in the SURF (Subsea Umbilicals Risers & Flowlines) and Subsea Well Intervention markets. Prior to joining, Martin spent 8 years in the upstream business, where he held a position of General Manager of a global leader in well services equipment.

Martin holds a master's degree in aerospace engineering from Delft University of Technology.

Martin is married with four children. In his spare time he enjoys running, history and spending time with his family.



### Ken Richardson

Executive Vice President, Global Offshore  
**ABS**

Kenneth (Ken) Richardson is ABS Executive Vice President, Global Offshore. He joined ABS in 1982 as an engineer in the Machinery department.

During his career at ABS he has held a number of increasingly senior positions in both ABS and ABS Group. Richardson has served as Executive Vice President of Energy Project Development; Principal in Charge, Offshore Engineering department, Houston; Director of Marine Services; Vice President Engineering, ABS Group; Vice President Engineering, ABS Americas; and prior to his current appointment, Vice President Energy and Transportation, ABS Consulting.

Richardson is an active participant in many industry associations including: the American Petroleum Institute (API) and the American Society of Mechanical Engineers (ASME).

He is a graduate of the Stevens Institute of Technology, Hoboken, New Jersey with a Bachelor in Mechanical Engineering as well as a Master in Ocean Engineering. Richardson attended the Program for Management Development at the Harvard Business School, Harvard University, Boston, Massachusetts.



### Erik Rijkers

Director Market Development & Strategy  
**Quest Floating Wind Energy**

In 40 years experience as consultant & advisor in various maritime and offshore technology environments Erik acquired deep insight in the development of offshore design, construction and mooring technology. He recognized over a

decade ago the potential of floating structures to generate offshore wind energy. FWE Promoter and strategist. Erik holds several marketing and communications degrees.



### David Saul

Safety and Operational Risk, Central  
Engineering Subsea Technical Authority  
**BP**

David is a Chartered Engineer with over 30 years' experience working in the Oil and Gas Industry. He worked in subsea controls for Aker and GE before joining BP in 2005. In addition, David has presented undergraduate and postgraduate university courses in Engineering and Knowledge Management. He is a member of the engineering advisory panel for Brunel University and council chairman of the Society for Underwater Technology.

His first role in BP was to lead BP's autonomous underwater vehicle development programme before moving on to the Shah Deniz stage 2 project, where he managed the subsea technology qualification programme. David then moved to the newly formed BP Global Subsea Hardware team managing reliability and technology development. GSH acts as BP's single face to the subsea hardware suppliers for equipment design procurement, storage, maintenance, and onshore repair.

David's current role is the Subsea Technical Authority for BP's Safety and Operational Risk (S&OR) group. Here he works on issues relating to subsea technical integrity and conformance together with providing specialist advice in his practice areas.

David is also the BP Advisor on subsea system reliability. BP's Technical Advisor Programme is a group wide initiative that recognises outstanding experts in their field, giving them wider responsibilities in their specialist field, providing them with the time and authority to carry out these activities.

David first presented at MCEDD in 2006 returning a number of times most recently at the 2018 Milan conference. He has been a member of the MCEDD conference technical advisory board since 2017.

Lives in Buckinghamshire UK, he is married with one daughter, 3 cats and 2 chicken.



### François THIEBAUD

Chief Technical Officer  
**DORIS Group**

5+ Year Advisory Board Member

François THIEBAUD has an engineering background in subsea pipelines from his previous employments with RJ Brown & Associates and Intec Engineering where he was involved in deepwater projects in the Gulf of Mexico.

He joined DORIS in 1992 and worked as project manager on a wide variety of projects covering floating facilities, subsea developments as well as onshore facilities. He headed DORIS Inc subsidiary in Houston in 2013, was Vice President of Operations with DORIS Engineering in Paris, and is now Chief Technical Officer for DORIS Group.



## John Upchurch

Subsea Director  
**ABS**

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

He spent 18 years with Aker Engineering, Coflexip Stena, Technip and Genesis, where he was responsible for numerous projects including Exxon Diana/Hoover, BG WDDM, and BP Deepwater Program (Thunder Horse, Atlantis, Mad Dog and Holstein projects. He had a brief Onshore/Downstream stint in 2007-2008 managing Technip's ExxonMobil downstream program He returned to Offshore/Subsea and took over as the head of Technip Deepwater Engineering organization in 2009. He then moved up, ultimately becoming Sr. Vice President of Genesis Oil and Gas Consulting, a Technip subsidiary.

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



## Dave R. Wilkinson

Senior Subsea Systems Consultant  
**ExxonMobil**

5+ Year Advisory Board Member

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

Early Phase & Application Engineering Manager  
**BakerHughes, a GE company**

5+ Year Advisory Board Member

Fredrik Witting is a mechanical engineer by education, and has a background in the nuclear industry before joining the oil and gas business in the 1990's. Since then, over the last 25 years Fredrik has worked in a number of roles within Engineering, Commercial and Product Management, and currently holds a position as Early Phase and Application Engineering Manager within BakerHughes, a GE company.

## SPEAKERS



### Youssef AMGHAR

Head of Drilling & Wells Engineering,  
Deepwater Product Line  
**Total**

Youssef AMGHAR has a Master degree of the French engineering and research graduate school named "Arts et Métiers Paris Tech" (ENSAM). He joined TOTAL in 2004 since when he had occupied several positions from Drilling Engineer to Drilling Manager in West Africa, Middle East, UK and Europe in development and exploration projects. He had been actively involved in developing innovative solutions and cost saving initiatives to improve economics in a volatile and uncertain Brent price environment.

Youssef is currently based in TOTAL's Head Quarters in charge of Drilling & Wells Engineering for Deepwater Product Line, leading his team toward development drilling projects FID.



### Andrew Atkinson

Global Commercial Director  
**Baker Hughes GE**

Andrew is the Global Commercial Director for BHGE's Subsea Production Systems & Services business, based in Bristol, UK. He has over 15 years of Subsea industry experience, beginning with Wellstream where he held Project Management, Business Development and Sales roles in the UK, Houston and Australia covering Subsea and SURF projects. Based in Perth, Australia from 2011 to 2017, Andrew was the Oil Field Equipment Commercial Director for Asia-Pacific working collaboratively with customers to develop major projects including Chevron Gorgon and INPEX Ichthys whilst partnering with McDermott during the FEED and now execution of the Posco Daewoo Shwe and ONGC 98/2 Developments. Andrew has an MBA from the University of Western Australia.



### Gary BAGOT

Product Manager  
**iXblue**

Gary Bagot started his career with the French navy and continued with 10 years in the O&G industry working first for Boskalis and then Technip. With a strong knowledge of survey operations Gary also has experience of ultra-deep water international project management, Gary joined iXblue as subsea inertial product manager, and is responsible for promoting innovative and cost efficient solutions to the energy market.



### Dr. Subrata Bhowmik

Senior Subsea Engineer  
**McDermott International**

Dr. Subrata Bhowmik has Masters in Control Systems Engineering and PhD in Structural Control using Artificial Neural Network from Technical University of Denmark (DTU) and Swiss Federal Laboratory for Material Science under ETH Zurich. He has more than 12 years of industrial experience in Oil and Gas industry in NKT Denmark, National Oilwell Varco, McDermott, Petrofac, INEOS, NIOT etc. He is a Chartered Engineer and Chartered Marine Engineer from UK. He had an extensive experience in asset integrity and life extension for offshore structures for different operators. He has contributed extensively in Life Extension using Risk Based Inspection, Cognitive IOT, Flexible Riser design, Pipeline buckling and walking, Integrity Management and Machine Learning based Predictive Maintenance for offshore structures. He is currently working as a Senior Subsea Engineer in McDermott London office.



### Knut Boe

Senior Vice President for Subsea Projects  
**TechnipFMC**

Knut Boe has more than 35 years of experience in the oil industry in Norway and internationally.

He joined the Technip Group in 1998 as a Managing Director of the Norwegian Unit Coflexip Stena Offshore, then called Technip Norway AS.

In 2001, Knut was transferred to Paris where he took the position of Executive Vice President Marine, Operations and Technical Services at the Corporate level.

Still based in Paris in 2005, Knut took the position of Senior Executive Vice President, Operations Division at the Corporate level. He was a Deputy manager for the operations division, which managed all assets and engineering execution centres within Technip, covering Subsea, Offshore and Onshore.

From 2007, Knut was based in Aberdeen/Oslo, and has held the position as President North Sea Canada and then President Europe Africa. He was responsible for all Technip's business activities in these regions and for the world-wide umbilical business.

Knut was Member of EXCOM from 2014- 2017

Since 2018, he holds the position as Vice President Subsea Projects, responsible for the world- wide project executions of Subsea Projects.

Knut holds a Msc Mechanical Engineering degree from the NTH University of Trondheim in Norway.



**David Boggs**  
Managing Director  
**Energy Maritime Associates**

Mr. David Boggs is the founder and Managing Director of Energy Maritime Associates (EMA), which is a leading consultancy for the floating production market. David has over 20 years' experience with extensive involvement in a range of FSO and FPSO projects, including as project manager. He has performed market research, strategic planning, project execution support, and business development expertise to clients in the offshore energy sector. David has a BA with honors from Harvard University and an MBA with honors from the University of Texas at Austin, where he was President of the Energy Finance Group.



**Christophe Candelier**  
Flow Assurance Specialist  
**Total E&P**

Christophe CANDELIER is graduated from 'Ecole Supérieure d'Ingénieurs de Marseille' (option Offshore) and from the Paris 'Ecole Nationale Supérieure des Petroles et des Moteurs' (IFP-school – Option DEG). He also received a Master's degree in mathematical and numerical modeling of turbulence from Ecole Supérieure de Mathématique de Marseille.

Christophe is a Flow Assurance engineer with over 15 years of professional experience in the Oil & Gas industry, including subsea and offshore facilities design and installation. He started his carrier in SAIPEM, EPCI contractor, where he developed a large experience in subsea field development, installation, subsea processing and Flow Assurance concerns.

He joined TOTAL in 2012 as a Flow Assurance - Multiphase flow specialist. He is currently involved in several R&D programs and provides support to deepwater projects in Design and Operation phases and support to various E&P affiliates with deepwater assets. He also participates to field development studies.



**David Charlesworth**  
Head of Engineering  
**Magma Global**

David has nineteen years of oil and gas industry experience and five years in academic research.

He is a recognised expert in flexible pipes, highly skilled in all forms of riser design, analysis and integrity management, and has an in-depth knowledge of FPSO turret systems. His career has included working for contractors and operators on projects in different regions of the world.

Before joining Magma at the beginning of 2014, David spent six years working for BP, latterly as the Riser & Flowline Technical Authority for BP's Angola Region.

He has a doctorate in Computational Fluid Dynamics from University

College London and a first-class degree in Mathematics from the University of Newcastle Upon Tyne.



**Gianbattista Curti**  
Technical Manager  
**Saipem**

Gianbattista Curti holds a degree in Nuclear Engineering.

After a few years in nuclear industry he moved to oil & gas industry and joined Snamprogetti-Italy in 1988.

Initially, he has been involved in R&D projects, like SOPI, MASPUS and SUPERB, which have been instrumental to the development of guidelines and limit states based design criteria for offshore pipelines design.

From 1992 to 1998, it was project engineer on North Sea projects, like Zeepipe, Haltenpipe and Troll Oil..

It was the engineering manager for the Blue Stream Project, in Black Sea.

In 2002, he joined Saipem – Italy, where he has taken the position of technical manager in several subsea development projects, in Africa, Brasil and Gulf of Mexico, like Kizomba, Akpo, Cabiunas, Jack & St Malo, East Hub.

From 2008 to 2011, he had the position of Deepwater Engineering Manager for the Saipem Houston office.

Gianbattista has now a 25+ experience in offshore industry and has developed his career in Italy, Norway, USA and France.

Thanks to the range of technical management positions, he has taken on a number of challenging EPCI projects, as well as conceptual and FEED studies, and tendering activities, Gianbattista has a wealth of knowledge of engineering and construction of offshore pipelines and subsea structures.



**Evgeniy Dimkin**  
Marine Engineer  
**DNV GL**

Doing things differently gives the world colour. Evgeniy Dimkin has worked at DNV GL to provide alternative innovative solutions to modern engineering problems in offshore.

Dimkin graduated with Honours from University of Glasgow and has since worked with DNV GL as a Marine Engineer in the Noble Denton Floating Structures and Marine Warranty divisions.

During his time with the company, he has worked in both the Oil and Gas, and Wind Industries across Europe and Asia, on projects such as Filanovsky Phase II, Filanovsky Phase III, East Anglia One and Deutsche Bucht.

Evgeniy Dimkin enjoys tackling complex problems which are not actively discussed in industry and his interests focus on topics involving deep water development. Dimkin has presented at the 3rd Program of

# COMMITTED TO DEEP OFFSHORE

Moho Nord: An Industrial and  
Human Challenge in the Republic  
of the Congo



**#MakeThingsBetter**  
**Total.com**

## KEY FIGURES

**Water depth:** 450 to 1,200 meters

**Peak production:** up to 140,000 b/d

**Number of wells:** 34

17 subsea wells for the Miocene reservoirs and 17 surface Christmas tree wells for the Albian reservoirs

**Projected service life:** 30 years



**TOTAL**

Committed to Better Energy

## SPEAKERS

International Platforms on Ocean Energy for Young Researchers in Saga University, Japan. His work on Shared Anchor Points has also been recognized by the Institution of Mechanical Engineers (IMechE) which awarded the topic with both a certificate and medal.



### Gautier Dreyfus

CEO

**Forssea Robotics**

Gautier Dreyfus is a petroleum engineer with 5y experience in the Oil & Gas industry. Prior to founding Forssea, his 1st company, he worked 2 years as a field engineer onshore and offshore Africa. He also worked for Schlumberger Business Consulting as an analyst for North Sea projects. He is currently leading FORSSEA to develop autonomous subsea robotics systems, including the ATOLL vehicle which can lift and deploy assets up to 1.5T. He graduated from Ecole Polytechnique (France), IFP School (France) and Texas A&M University (USA).



### Thomas EPSZTEIN

Composite Materials Project Manager

**TechnipFMC**

Thomas joined TechnipFMC in 2007 as material engineer. He specialized in thermoplastics used in flexible pipes (mechanical properties, SC CO2 applications and permeation).

Between 2011 and 2016, Thomas was R&D Project Manager in charge of the qualification of new materials: PVDF monolayer (CoflonXD), Anti-H2S layer. He was strongly involved in the qualification of Flexible Pipes for HPHT application (17.5kPsi, 150°C).

Since 2016, Thomas works as Composite Materials Project Manager within the Flexibles Product Line and EMS organization. In 2017, Thomas was nominated Expert in non-metallic materials."



### Tim Farrant

Subsea Engineering Manager, Global Projects Organisation AGT Region  
**BP**

Tim Farrant is currently Subsea Engineering Manager for the BP Global Projects Organisation in the Azerbaijan, Georgia, Turkey Region. His role includes responsibility for subsea engineering on the Shah Deniz 2 project which achieved first gas in July 2018. Prior to this Tim has work in various subsea engineering roles for BP in the Gulf of Mexico and Angola business units, and in Upstream technology. Early in his career, Tim work in the oil and gas industry for UK based subsea engineering contractors. He is a chartered engineer with the IMarEST, holds degrees in mechanical engineering and naval architecture and has a PhD in computational fluid dynamics.



### Luiz Feijo

Director Global Offshore

**ABS**

Luiz Feijo is Director, Global Offshore for the American Bureau of Shipping (ABS) in its headquarters in Houston, Texas - USA. Feijo looks over the business intelligence and business development activities on the classification and certification of offshore production facilities. He is also responsible for regulatory compliance aspects, interfacing with regulatory agencies involved in production units in the US Gulf of Mexico.

Feijo joined ABS in 2001 as Project Manager and held different positions related to project management and business development. Prior to working at ABS Feijo worked in offshore construction yards and shipyards. With over 30 years of experience in classification, offshore construction and shipbuilding, Feijo is a Project Manager Professional (PMP) certified by the Project Management Institute (PMI) and holds a BS degree in Mechanical Engineering from the Rio de Janeiro State University in Brazil.



### Marie Féron

Project Engineer

**DORIS Engineering**

Marie Féron is a graduate of the French engineering school Ecole des Ponts and is currently working at DORIS engineering on design methodologies for floating wind turbine.



### Stuart Fitzgerald

Executive Vice President Strategy & Commercial

**Subsea 7**

Stuart began his career with a specialist marine engineering consultancy, progressing to Worley Engineering in Australia and Brunei.

Stuart began his career with Subsea 7 in 1998. In 2007 Stuart was appointed as head of Sales and Marketing for Norway and Denmark, and in 2009 became Vice President for Norway. In 2014 he was appointed Vice President Sales and Marketing for the Northern Hemisphere and Life of Field business. In June 2016 Stuart was appointed Vice President Strategy and Technology for the Group which he held until he was appointed Executive Vice President Strategy and Commercial in January 2018.

Stuart has a Bachelor of Engineering degree in Mechanical Engineering and a Bachelor of Science degree in Applied Mathematics from Monash University in Melbourne, Australia.



## Ted Fletcher

IOGP-JIP33 Integration Chair  
**International Association of Oil & Gas Producers (IOGP)**

Executive manager leading and facilitating corporate and project teams specializing in; Strategic planning, objectives deployment, measurement and analysis, risk management, corporation and project management systems development and implementation, team leadership and mentoring, training, facilitation and communication, process re-engineering and improvement initiatives, performance standard development, project assurance, verification and validation programs, supply chain evaluation, audit and verification programs, integrated corporate and project audit and review programs.

Currently on secondment from Woodside Energy to IOGP as the Integration Chair within the project team for the Oil and Gas Sector Equipment Procurement Specifications Joint Industry Program.



## John Goodey

Subsea Lead Controls and HIPPS Engineer  
**BP**

John Goodey is a Chartered Engineer with 12 years of oil and gas experience. He has worked in the controls and functional safety discipline applying these to topsides and subsea developments, most recently the Shah Deniz 2 HIPPS, Taurus Libra and

Raven HIPPS projects. His current roles in BP are BP Global Subsea Systems Lead Controls/HIPPS Engineer and Subject Matter Expert for Subsea HIPPS.



## Matthew Green

Subsea Engineer  
**BP**

Matt has ten years' experience in the oil and gas industry. After graduating from Purdue University, Matt moved to Houston to work for Cameron (now OneSubsea) where he held roles in engineering and project management. He went to work for

BP in 2012. At BP, Matt worked on the 20ksi technology development, representing BP on several Joint Industry initiatives to develop 20ksi subsea equipment. He is now in BP's Global Subsea Systems group where he has worked in Gulf of Mexico aftermarket supporting new well deliveries and currently as a subsea hardware engineer for the Mad Dog 2 and Matapal projects in the Gulf of Mexico and Trinidad.



## Paul Griffin

Special Adviser, Oil & Gas  
**White & Case**

Paul Griffin is an English lawyer who has over 35 years' experience of practising in the international oil and gas business. Paul was a partner in leading international law firms for some 25 years until his retirement from Allen & Overy in 2016. During that time he led the oil and gas teams at those firms and worked on many of the significant deals and disputes of the global oil & gas business, as well as being involved in related matters of public law and competition law.

In addition to Paul's chair at the University of Dundee, Paul acts as an adviser and consultant in relation to the law of the international oil and gas business of White & Case. He is also active in the resolution of disputes in that sector where he works as an arbitrator, an expert and a mediator. He writes and speaks regularly about the issues and developments of the law in the context of the global oil and gas industry and he is the consulting editor of the leading text, "The Law and Business of LNG".

Paul is a Solicitor of the Supreme Court of England and Wales, a Fellow of the Chartered Institute of Arbitrators and an Accredited Mediator with the Centre for Effective Dispute Resolution.

Awards and Recognition: "World's Leading Energy Lawyer" Expert Guides: Best of the Best, "World's Leading Oil and Gas Lawyer" Who's Who Legal, "Thought Leaders – Global Elite" Who's Who Legal, "Global Energy Elite" Petroleum Economist.



## Helge Hagen

Project Manager  
**Equinor**

Currently project manager for Aasta Hansteen SURF and marine operations. Have experience with subsea projects since 1993, Troll B/C, Ormen Lange, Vega, Hyme and more. Is in these days starting up as Project Manager SURF for the

Rosebank project.



## Torbjørn Hegdal

Business Development Manager  
**National Oilwell Varco**

Holds a Master in Petroleum Engineering from University of Technology in Norway, – and an MBA from Norwegian Business School.

28 years in the oil and gas industry, primarily with Shell International, Enterprise Oil and other companies, held various Asset and Business Unit management positions.

## SPEAKERS



### Xavier Henneuse

Flow Assurance Specialist  
**TechnipFMC**

Xavier is a chemical and process engineer graduated from ENSIACET in Toulouse, France.

With 11 years of experience in flow assurance engineering, Xavier started his carrier in SAIPEM, an EPCI Contractor, where he developed his West Africa Subsea field experience through projects, tenders and R&D programs.

He joined TechnipFMC in 2013 as Senior Flow Assurance engineer and is today in charge of all Subsea Africa flow assurance and thermal design activities in Paris office.



### Mads Hjelmeland

Vice President - Processing Systems  
**OneSubsea - A Schlumberger Company**

Mads Hjelmeland holds an MSc in Marine Technology with the Norwegian University of Science and Technology, and currently holds the position as Vice President, Processing Systems, and he's responsible for the subsea processing

business in OneSubsea.

From 2016 to 2017 Mads served as the Global Sales Director for OneSubsea's, and prior to this he held the role as Director of Emerging Technologies within the subsea processing domain. Prior to joining OneSubsea in 2014, Mads worked with Murphy Oil in Malaysia where he held the position as Manager of Subsea Projects, which included development planning and execution of EPC projects across Murphy's Malaysia deepwater portfolio. Before he joined Murphy Mads worked with OneSubsea where he held a variety of positions in Norway, the Middle East and Asia. His work scope focused on subsea processing technologies, with particular emphasis on subsea boosting and multiphase compression technologies.



### Rune Høstmark

Product Manager  
**National Oilwell Varco – Subsea Production Systems**

Rune Høstmark joined NOV with the legacy Kongsberg Oil and Gas Technologies team in 2016. Mr. Høstmark works as a product manager, where he supports product development,

engineering and global business development for NOV Subsea Products. He has 10 years of experience within engineering and project management and holds an MS degree in mechanical engineering from the Norwegian University of Life Sciences.



### Kevin Hunn

Lead Concept Engineer, Global Subsea Systems  
**BP**

Graduated from University of Bristol with MEng Mechanical Engineering (with distinction) in 1991.

Current position is Lead Concept Engineer in BP's Global Subsea Systems group, with responsibility for concept engineering of subsea production systems for all Eastern Hemisphere projects.

Worked for over 27 years in the Oil and Gas industry, with a total of 25 years at BP.

Experience has covered the full life-span of subsea engineering from Concept Design to Decommissioning.

Worked in UK, Norway, Singapore, Vietnam and Australia.



### Soichi Ide

Vice President, LATAM and Ghana Operation  
**MODEC**

Ide is the Vice President of MODEC Serviços de Petróleo do Brasil Ltda, a group of MODEC (Headquarter in Japan) in offshore oil and gas production service sector. He holds a bachelor of mechanical engineering from University of Tokyo

and has 23 years professional experience.

He started the initial carrier for 2 years in mechanical engineering and design in automotive sector then spent majority of his time for project management. Since joined MODEC in 2000, he assumed project management for 15 years to deliver FPSO (Floating Production, Storage and Offloading unit) to serve oil and gas production service for oil and gas field operators. From 2015, he took the role of Vice President of Operation in Brazil where MODEC holds 10 FPSO facilities to charter and operate. MODEC contributes to deliver around 20% of all Brazil oil production, or around the half of gigantic pre-salt reservoirs in Brazil. He has also assumed the role of Chief Transformation Officer (CTO) to lead deep/wide financial and sustainable transformation at MODEC do Brazil with consultancy firm.

From 2017, he extended his role into Ghana to extend, synergize, adapt, and further elaborate Brazil experience, methodology, and deliverables into Ghanaian operation where MODEC operates two FPSOs.

As a matter of continuation of transformation journey, he is currently leading digital transformation in operation as well as working as advisor for global digital strategy.



### Vineet Jha

Principle Engineer Composite  
**Baker Hughes GE**

Vineet Jha graduated from Queen Mary University of London with PhD in Material science. He has been working on composite & polymer testing, development, analysis and manufacturing methods for more than 15 years. Currently, He holds the

position of principal engineer within the technology department of BHGE and leads the composite development programme. This role involves design, testing and evaluation of composite material/pipes suitable for Oil and Gas application. Primary aim is development, qualification and introduction of composite pipe suitable for Deep-water application.



### Walter Antonio Kapp

IHC Robotics R&D Advisor  
**Royal IHC**

I am a Mechanical Engineer with 30+ experience on Mechatronics Design. I have worked on general industries metrology instruments design in the beginning of my career, followed by Robotic design for Hydropower turbines

maintenance. During the last 10 Years I have working for the Oil and Gas Industry on Innovative projects. We have developed several Instrumented pipelines PIGS, Flexible Inspection Robots (AURI - Autonomous Under Water Riser Inspector) for deep water (1000 m), on shore pipeline welding robots, cable robots for painting FPSOs, etc. I have a Doctor degree by the University of Santa Catarina, concluded in 2010, my work was the development of a Residual Stress LASER Measuring Device, able to be applied for in the field application, including for offshore measurements.



### Adrian Luckins

Vice President Projects: Americas, North Sea & Subsea Systems  
**BP**

Adrian has 33 years of upstream oil and gas engineering, project management, and operations experience gained in various domestic and international assignments with Shell, ABB and BP.

Adrian is a member of the BP Upstream Global Projects Organization leadership team with accountability for major projects in the Americas, the North Sea and subsea systems globally.

Previous roles include leading transformational change through the creation of the Global Projects Solutions organization, focused on project selection, standardized equipment and brownfield projects; VP HSSE & Engineering for the North Sea; Chief Engineer for Process and Process Safety; and Engineering Manager for BP's program of Caspian Sea projects.

Adrian graduated from University College London in Chemical Engineering (1984) and holds a MBA in Engineering Management (1993). He is a Fellow of the Institution of Chemical Engineers and a Project Management Professional (PMP).



### Wadih Malouf

Subsea Engineer  
**BP**

Wadih joined BP as a graduate engineer in 2014 after completing a research project in the nuclear industry. Since joining BP, Wadih has been involved in the subsea engineering for deepwater projects from concept selection to execution across BP's

portfolio. Previously, he was responsible for the riser engineering in an industry-first riser repair project. He subsequently took on a site role as a manifold engineer in Norway. Currently, he is a subsea engineer on BP's West Nile Delta project based in the London office, where he delivered parts of the deepwater flowline scope and supports the concept development team.



### Neil Manning

Chief Operating Officer  
**3D at Depth**

Manning's career spans over 20 years in the offshore Oil and Gas, and Submarine Network Telecommunications industries where his focus was system and subsea engineering solutions.

His successful record of initiating strategies to enable business growth has resulted in expanded operations and sales, advancements in technologies, and corporate acquisitions. Throughout his career, Manning has consistently identified gaps within the market to enable growth using differentiators and enhance technology offerings for a competitive edge.

As Business Development and then General Manager at Seamap, Manning helped lead company annual revenue growth 5x. As President of CD Ltd, the company's annual revenue growth increased by a factor of 10x, and Manning was a key member for the sale of CDL to then Teledyne Technologies. Manning has also led a variety of corporate expansion efforts internationally in North and South America, Europe and Asia. Prior to 3D at Depth, Manning spent 6 years as the President and one of the Principle for CDL Inc. and held a board seat for CD Ltd where he focused on global growth and operational excellence, and new product revenue streams. Post the sale of CDL to Teledyne Technologies, Manning worked as Head of Business Development and supported the transition of the business to Teledyne.



### Duncan McLachlan

Director Systems Engineering & QHSSE  
**io Oil & Gas Consulting**

Duncan has 17 years of systems engineering professional experience across the oil and gas, automotive, aerospace and defence industries.

He is responsible for strategic quality at io as well as HSSE, Systems Thinking and the io way framework. He has a proven track record in the development and implementation of management systems. His oil and gas experience includes the execute phase of a major deepwater development in Angola; concept selection for Angola and UK North Sea developments; brownfield developments and quality management for projects executed on behalf of Super Majors, NOCs

## SPEAKERS

and Independent oil companies.

Prior to io, Duncan was Head of Quality at Amec Foster Wheeler and led the Supplier Quality Management function at BP Angola.

Duncan is a member of the Chartered Quality Institute with chartered quality professional status (CQP MCQI). Duncan is also a member of the institute of physics (MInstP)



### Aslaug Melbø

Senior Product Manager  
**Baker Hughes, a GE Company (BHGE)**

Aslaug graduated from the Norwegian University of Science and Technology in 2001, after completing her master thesis at the University of Strathclyde, Glasgow. She has more than 15 years' experience within product development and qualification and

has since 2005 held various management positions in Schlumberger and BHGE/GE Oil & Gas, within program management, quality management and strategic sourcing management. She is currently working at BHGE as Senior Product Manager for Subsea Power & Processing.



### Anders Martin Moe

Project Development Manager – Floating Production  
**Wood**

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 10 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.



### Jean-Hervé Morard

Deputy Vice President Deepwater and Subsea  
**Total**

Jean-Hervé has been working for TOTAL for the past 20 years. He held different development and project management positions in different countries such as Norway, Iran, Nigeria, Indonesia,

Angola and in the Head Quarters. He has been Director of the Brown Field Projects of TOTAL E&P Angola. He is now deputy Vice President Deepwater and Subsea for TOTAL E&P



### David O'Connor

Head Global Projects Organization  
**BP**

David currently serves as BP's Head of Global Projects, accountable for the delivery of all Upstream projects across the world. He manages an annual budget of around \$10 billion gross that covers onshore, offshore and deepwater projects.

Prior to this role, David was the Vice President of Deepwater projects and over his extensive career spanning over 36 years in industry, he has worked around the world in technical and managerial roles in Houston, Alaska, Algeria, North Sea, and Egypt. David has previously served as President and General Manager for BP's business in Sharjah, UAE.

David graduated from Heriot Watt University, Edinburgh, Scotland with a bachelor's degree in civil engineering and master's degree in petroleum engineering and joined Amoco in 1983.

David is married with two children and resides in Houston.



### Ezenna Okolie

Business Development Manager Africa, Oil and Gas  
**Sandvik**

Ezenna Okolie is the Business Development Manager, Oil and Gas for Sandvik Materials Technology in Africa. His primary responsibility is in the application of seamless tube made from

advanced stainless steels and specialty alloys for chemical injection/hydraulic control lines, umbilical tubing and downhole tubing in the oil and gas industry.

He has supported several successful deep-water projects with major operators in Sub-Saharan Africa, within the last eight years, focusing on materials selection and tubular solutions for drilling and completions. Before joining Sandvik, he was responsible for Technical Sales for Tenaris in Sub-Saharan Africa where he led the project delivery for the first recorded installation of CRA tubing completions in triples using Dope-free technology, offshore Angola.

He started his career as a metallurgical engineer within metals and equipment manufacturing before joining the oil and gas industry and is currently the President of the Nigeria Society of Engineers' Institute of Metallurgy, Minerals and Materials Engineers in Lagos.

Ezenna holds an MSc. in corrosion control engineering from The University of Manchester, UK and a bachelor's degree in metallurgical engineering from the Federal University of Technology, Owerri in Nigeria.



## Christophe Paillusseau

Vice President Sales & Marketing  
**COLD PAD**

Christophe Paillusseau is the VP sales & marketing of COLD PAD, an industrial start-up company specialized in reliable and durable bonded solutions for offshore structural applications.

For over 15 years, he built a broad marketing career in the oil & gas industry, covering a wide spectrum of expertise and activities with a specific focus on deepwater fields. His professional reach includes experience in subsea flowlines & risers (SURF) with ITP Interpipe; drilling activities (OCTG) with Vallourec; LNG shipping with GTT; and now structural solutions for FPSO offshore vessels. Missions have brought him to work worldwide, interacting with operators, fellow engineers, and men of the field in the oil and gas industry.

Christophe is an active member of EVOLEN, the French association committed to the worldwide promotion of French excellence in the oil and gas industry, for which he was appointed president of the youth section, from 2012 to 2014. Christophe is a graduate of Ecole Centrale de Lyon, in France, and holds a Master of Mechanical Engineering from Cornell University in the US.



## Francois-Xavier PASQUET

R&D Deep Offshore Program Operations  
Representative  
**Total E&P**

Francois-Xavier is production engineer in Total E&P for R&D Deep Offshore Program based in Pau, France. Following 9 years of experience in well intervention, process engineering and operations

within projects (start-up team of Shetland Gas Plant, Girassol MPPs and Kaombo North in Angola) he now deals with Subsea Chemical Storage & Injection, Subsea automated pig launcher, ETH blanket or Riskex subjects.



## Daniele Petrone

Subsea Production Optimisation & Asset  
Integrity Manager  
**OneSubsea – A Schlumberger Company**

Daniele Petrone graduated with a Master in Chemical Engineering from the University of L'Aquila in Italy in 1998 and after a short stint in Management Consulting he moved to the Oil &

gas industry with Schlumberger in 2000. He has worked in several areas ranging from well construction, well intervention and completion and in the past 9 years in subsea, covering technical operational, sales and marketing and management roles. In his current role he overlooks OneSubsea Services businesses related to production optimization, digital platform, intervention and asset integrity. Daniele also holds a MBA from Robert Gordon University in Aberdeen where he is also an associate lecturer. Since 2018 he is the SUT Aberdeen branch chairman.



## David Phillips

Managing Director, Head of Equity Research,  
Developed Europe, Global Research  
**HSBC Bank**

David Phillips is HSBC's Head of Equity Research for Developed Europe. He re-joined HSBC in 2016 as the Global Head of Resources and Energy Equity Research, based in New York, after working

as Head of Industry and Investor Relations for a major oilfield services company. Before moving over to the oil industry in 2015 David had been an equity analyst at HSBC in London for nine years, latterly as Co-Head of Global Oil and Gas Equity Research. He has been an investment analyst since 1998, initially covering European chemicals and moving to the oil and gas sector in 2006. David earned a PhD in Chemistry from the University of Cambridge.



## Jérôme RIBUOT

Renewable Energy Development Director  
**Saipem**

After 25 years of Oil and Gas project management and business development worldwide, including a large subsidiary top management within the SAIPEM group, Jérôme made an enthusiastic move towards Offshore Renewables in 2017.

He is now in charge of developing the Offshore Wind Farm technology and business for SAIPEM.

Based in SAIPEM Offshore Division located in Paris he benefits from the inexhaustible commitment from this office to promote the Offshore Wind Farm business and foster technical and commercial support among all SAIPEM areas and subsidiaries.

Jérôme was Project Director at Sofresid up to its acquisition by Bouygues Offshore in 1999, when he took position of Engineering Business Vice president for Bouygues Offshore and remains in charge of this business after the merging with Saipem in 2002.

He was nominated CEO of Sofresid Engineering in 2003 and remained in charge of this significant subsidiary up to 2007 when he moved to SAIPEM Offshore Business Unit to trigger Offshore Plant Business Development at SAIPEM Singapore.

Back from Singapore in 2009 he became Floaters Business Director in charge of developing SAIPEM FPSO-FPU-FLNG business in Australia, West Africa, Indonesia, Brazil, Norway, Canada, for any large or unconventional FPSO / FLNG / gas FPU project.

Delivery oriented, experienced in complex operating environments, Jérôme led teams by bringing clarity through periods of uncertainty and change, with a focus on collaborative working, inclusive and authentic leadership.

He has the resilience, drive and humour to see things through.

## SPEAKERS



### David Saul

Safety and Operational Risk Central  
Engineering Subsea Technical Authority  
**BP**

David is a Chartered Engineer with over 30 years' experience working in the Oil and Gas Industry. He worked in subsea controls for Aker and GE before joining BP in 2005. In addition, David has presented undergraduate and postgraduate university courses in Engineering and Knowledge Management. He is a member of the engineering advisory panel for Brunel University and council chairman of the Society for Underwater Technology.

His first role in BP was to lead BP's autonomous underwater vehicle development programme before moving on to the Shah Deniz stage 2 project, where he managed the subsea technology qualification programme. David then moved to the newly formed BP Global Subsea Hardware team managing reliability and technology development. GSH acts as BP's single face to the subsea hardware suppliers for equipment design procurement, storage, maintenance, and onshore repair.

David's current role is the Subsea Technical Authority for BP's Safety and Operational Risk (S&OR) group. Here he works on issues relating to subsea technical integrity and conformance together with providing specialist advice in his practice areas.

David is also the BP Advisor on subsea system reliability. BP's Technical Advisor Programme is a group wide initiative that recognizes outstanding experts in their field, giving them wider responsibilities in their specialist field, providing them with the time and authority to carry out these activities.

David first presented at MCEDD in 2006 returning a number of times most recently at the 2018 Milan conference. He has been a member of the MCEDD conference technical advisory board since 2017.



### Alex Stanning

Senior Project Engineer  
**Subsea 7**

Alex Stanning is a Senior Project Engineer with Subsea7. He has seven years' experience in this industry and has worked on a broad range of EPIC projects including Total Laggan Tormore and Premier Catcher. His experience includes multiple offshore installations and he has a particular interest in research and development. Prior to joining the energy sector he worked as an engineer and partner with Max Fordham building services consultancy and worked on the Royal Museum in Edinburgh. He enjoys volunteering with engineering training for young people and is also a mentor for the Institute of Mechanical Engineers.



### Demetri Stroubakis

Director - Vendor Market Sector Lead,  
Corporate Global Business Development  
**ABS**

Demetri Stroubakis, ABS Corporate Director and Market Sector Strategy Lead for Vendors, is a twenty-seven year veteran of ABS. He has extensive experience in numerous naval and commercial ship new construction projects and is a subject matter expert in equipment and material certification activities. Demetri has held many positions of increasing responsibility during his ABS career including Principal Surveyor of the Black Sea Area, Regional Vice President ABS Eastern Europe and Senior Vice President ABS Nautical Systems. Most recently he served as Corporate Assistant Chief Surveyor for Global Materials and Equipment certification.

Prior to joining ABS, Demetri served as an officer in the US Navy. He completed his undergraduate degree in Marine Engineering from the United States Merchant Marine Academy, Kings Point, NY, and is a graduate of Texas A&M Mays School of Business, Executive MBA program.



### Mahesh Swaminathan

Vice President Commercial  
**McDermott**

Mahesh Swaminathan is the Vice President for Asia Pacific Commercial group at McDermott. Mahesh comes with about 25 years of experience in formulating, negotiating and executing large sized energy projects in Asia, Middle East, Australia and Europe. Mahesh has a Bachelor's Degree in Engineering and a Masters Degree in Contracts Law. In his current role, Mahesh has been involved in forging partnerships with key customers and industry partners such as BHGE to evolve new contracting models that provide a 'WIN-WIN' solution to both the customers and contractors. Such arrangements have been successful in Australia, India and Myanmar recently. Prior to this role, Mahesh was a Project Manager/Project Director executing large EPCI projects for many years. One of his most notable achievements was the successful execution of INPEX Ichthys SURF project as McDermott's Project Director. This project was an industry first in many aspects and is the largest offshore project ever executed by McDermott.



### Pete Tipler

Renewables Director  
**Xodus Group**

Peter is responsible for the Renewables business at Xodus. With experience across advisory (lenders technical advisor and disputes), project development, operation and decommissioning projects, Peter brings a full lifecycle and multi-perspective angle to Xodus' Renewables offering.

Peter joined Xodus at the start of 2009 as a graduate consultant in the environment division. Peter's drive and commitment to forging successful relationships, delivering high quality advice and commercially savvy

business, coupled with freedom allowed by Xodus, enabled Peter to move around the business. Peter led the international Environmental Impact Assessment team and subsequently established a thriving international oil and gas Decommissioning business capitalising on the opportunities offered by a low oil price environment.

Peter is proud to be embracing the global energy transition by actively pursuing energy solutions which are technically, economically, ethically and environmentally sustainable.



### Are Torstensen

Director of Technology and Service Development, Offshore Classification  
**DNV GL**

Are Torstensen is currently DNV GL Director of Technology and Services for Offshore Classification, with responsibility for all service development and technology development for mobile offshore units.

Special focus has been put on digitalization of existing services and development of new services based on digital opportunities.

Experience: Have worked for more than 20 years in DNV GL, stationed in Norway, USA and Singapore, mainly with classification, certification and verification of floating offshore units, designed, built and operating all over the world. Previously Global director of Approval for Mobile Offshore Units in Singapore, Director of Operations for the DNV GL Approval Centre for Ship and Offshore at Head Office in Oslo, Norway. Also a broad experience within FPSO both from drawing approval and site. Acted as Project Manager and Project Sponsor for DNV GL for FPSO conversions and newbuildings.

Education: MSc. in Mechanical Engineering (1995) from the Norwegian Institute of Technology, at the University of Trondheim, Norway.



### Jostein Tvedt

Sales Manager – Subsea Processing Systems  
**OneSubsea – A Schlumberger Company**

Jostein Tvedt started his career in OneSubsea in 1998 as an instrument engineer for multiphase meters, this position took him around the world to install multiphase meters, and was also very

much involved in qualify multiphase meters at well-known laboratories. In 2003 he joined FMC as a field engineer for subsea production control systems and subsea completions. In 2007 he returned to OneSubsea and management positions within customer services and engineering, Jostein have also run 2 major subsea processing EPC and EPCIC projects as Engineering Manager. He also holds patents on subsea related technologies. Jostein is now Sales Manager for subsea processing systems at OneSubsea.



### Dr. Thomas I. Valdez

Manager, Chemical Engineering  
**Teledyne Energy Systems**

Dr. Thomas I. Valdez is the Chemical Engineering Group Manager at Teledyne Energy Systems Incorporated, Hunt Valley Maryland. He manages the development of advanced chemical and electrochemical engineering systems. These projects include advanced electrolysis for the generation of hydrogen and oxygen, fuel cell technologies with a focus on powering air-independent applications, and battery systems for energy storage. His battery system focus is on advanced passive thermal management to enhance durability and address failure propagation mitigation in lithium-based batteries.

Thomas has over 28 years of experience in the area of advanced power systems for military, space, underwater, and commercial applications. His career began at NASA's Jet Propulsion Laboratory (JPL) where he was a major contributor to the JPL Fuel Cell Group and Power Systems Section. Thomas has received various NASA New Technology Awards, has published several technical papers in scientific journals, and has co-authored three book chapters on fuel cell technology. He has several patents with regard to his work on fuel cells, electrochemical sensors, and energy harvesting systems.

His educational background starts with being a student of Mr. Jaime Escalante, whose teachings were the basis of the Hollywood movie Stand and Deliver. Thomas holds a Bachelor of Science degree in Mechanical Engineering and a Masters of Science degree in Materials Engineering from the University of California, Irvine. He completed his doctorate in Materials Science under Professor Florian Mansfeld, winner of the Electrochemical Society Vittorio de Nora Award, at the University of Southern California.



### James West

Senior Managing Director  
**Evercore ISI**

James West is a Senior Managing Director responsible for the research coverage of the Oil Services, Equipment and Drilling industry consisting of detailed fundamental research on over 70 companies. Prior to joining Evercore ISI, Mr.

West was a Managing Director and Senior Research Analyst at Barclays and Lehman Brothers for a combined 15 years.

Since assuming lead coverage in 2011, Mr. West has been top ranked in Institutional Investor, including number three in 2011, number two in 2012 and number one from 2013 to today. Prior to joining Lehman Brothers, Mr. West worked at Donaldson, Lufkin & Jenrette. Mr. West received his B.A. in Economics and a minor in History from the University of North Carolina at Chapel Hill.

## SPEAKERS



### Rob West

Founder & CEO  
**Thunder Said Energy**

Rob joined Redburn from Sanford Bernstein's European Oil & Gas team. He has completed 75 modules from the IPIMS Petroleum Geology & Engineering programme, which is used by 40 upstream oil & gas companies to train internal technical staff. Rob holds a First Class degree in Experimental Psychology from University College, Oxford. He is a CFA Charterholder, and a Research Associate with the Oxford Institute for Energy Studies. In 2019, Rob is spearheading a new research institute, Thunder Said Energy, which will focus on disruptive new energy technologies.



### Dieter Wijning

Product Manager Drilling  
**Huisman**

DIETER WIJNING has served as Product Manager Drilling at Huisman since 2009, where he is responsible for developing the offshore well manufacturing product portfolio. He designed among others the fundamentals for the LOC land drilling units, the Noble Globetrotter and HuisDrill 12000 drill ships and the new harsh environment drilling semi submersible.

Mr. Wijning joined Huisman in 1998, in the Mechanical Department, before being promoted to department head of the Concepts Design Group, designing various cranes, pipelay systems and other offshore projects.

He holds a degree in mechanical engineering from the Leeuwarden Institute of Technology, a wide range of patents and has written various articles.



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From its world headquarters in Houston, ABS delivers survey and engineering services and solutions to clients through a network of local representatives working from more than 200 offices in 70 countries.



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## C-Kore

### Exhibit Booth #211

C-Kore is an innovative UK company bringing fast and reliable testing techniques to the offshore industry. C-Kore subsea testing tools perform quick automated testing for subsea fault-finding and installation/decommissioning work. Operations are completed much faster saving customers time and money by greatly reducing vessel days.

For too long offshore testing has relied on error-prone manual measurement. Subsea fault-finding, installation and decommissioning tasks have used downlines of dubious condition or burdensome platform-led testing. This has led to slow measurements and error-prone results.

C-Kore tools eliminate these problems, allowing testing to be completed much faster by automating the entire testing process and saving you days of vessel time. The Cable Monitor tool confirms the integrity of subsea cables by measuring their IR and continuity. Their Subsea TDR quickly localizes faults along electrical lines with a precision of 10cm. The NEW Sensor Monitor allows for down-hole sensors to be measured quickly and accurately even with the subsea control module removed.

Having just won the Subsea UK Award for Innovation and Technology, C-Kore is taking the offshore subsea industry by storm. Come talk to us to see how we can simplify your subsea testing!

Cold Pad  
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## Cold Pad

### Exhibit Booth #503

COLD PAD aims to shift FPSO structural maintenance from planned shutdown to general maintenance through innovative cold work techniques. Indeed, we provide innovative, permanent repair and fastening solutions for hull & deck. We have developed two main solutions, ColdShield™ and C-Claw™, both specially designed for offshore environments like FPSO. Our cold works are revolutionary in the marine world, inspired by composite techniques that have been used for decades in aeronautics. Cold Pad optimized its process for extreme marine conditions, especially FPSO environments, where hot works generate a string of constraints, shutdowns and risks. Our solutions offer permanent structural repairs that change the game of reinforcement, repair and fastening challenges. We boast the first class-approved cold work technique for our ColdShield™ solution that maximize production uptime, improve safety, guarantee asset integrity and reduce POB. ColdShield™ addresses corrosion to extend the life of the hull, deck or side shells, longitudinal or transverse frames as well as Crude Oil Tanks and Sea Water Ballast Tanks. C-Claw™ offers a quick, reliable and durable fastening solution for all your FPSO maintenance & modification operations: cable trays, pipe supports, skids, handrails, ladders and more.

## CSUB

### Exhibit Booth #216

## EXHIBITORS AND SPONSORS

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### Enpro Subsea Exhibit Booth #108

Enpro Subsea are production optimization specialists.

Our technologies enable operators to deliver first oil faster and increase the ultimate recovery from every subsea well by seamlessly integrating current and future technologies with standard subsea hardware.

Our products include:

- Flow Access Modules (FAM); a smarter standardisation of subsea hardware. FAM essentially creates a differentiated subsea architecture via an enhanced production 'USB port' within the jumper envelope. This allows operators to use standard subsea xmas trees and manifolds. This 'smart standardisation', with FAM enabling the required enhanced production technology 'off the XT', allows operators to realise the schedule benefits of selecting OEM 'fast track' hardware earlier, while still enabling the project specific technologies which may be required throughout the life of field. FAM therefore aligns with the current strategy of fast track, capital efficient subsea tiebacks.
- Flow Intervention Services (FIS); a field proven, low cost hydraulic intervention system. FIS is rated up to 15ksi, up to 30 bbl/min and 10'000 ft water depth. The FIS system enables a range of hydraulic intervention services including scale squeeze, acid stimulation and hydrate remediation



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### EVOLLEN Supporter

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

EVOLLEN network brings together some 1,350 members (250 corporate members and 1,100 individual oil and gas professionals). Their areas of expertise cover the entire oil and gas sector (exploration, production, storage, refining, and distribution) and renewables.

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

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



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### Gulf Energy Information Thursday Lunch Sponsor

For more than 100 years, Gulf Energy Information has been the leading provider of business and technical knowledge for the global oil and gas industry. Since its formation in 1916, the company has evolved from a single publication—The Oil Weekly, which was dedicated to upstream activity in the Gulf Coast area of the United States—to a diversified media and market intelligence company. Gulf produces the oil and gas industry's leading publications: World Oil, Hydrocarbon Processing, Gas Processing & LNG, Petroleum Economist and Pipeline & Gas Journal. In addition, Gulf also produces datasets (Construction Boxscore and Energy Web Atlas) containing in depth project and facility data.



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## GulfQuest

### Conference Organizer, Exhibit Booth #409

Gulf Quest is a partnership between Gulf Energy Information and Quest Conferences LLC for the joint operation of offshore conferences and events dedicated to the advancement of global exploration and production and related deepwater technologies, including the leading global deepwater technology event, MCE-DD Deepwater Development. Newly launched executive level events include Deepwater Executive Summit, held annually in Houston, and Global Offshore Brazil Summit.



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## IRO

### Supporter

IRO- THE ASSOCIATION OF DUTCH SUPPLIERS IN THE OIL AND GAS INDUSTRY AND OFFSHORE RENEWABLE INDUSTRY

The Oil, Gas and Offshore Renewable supply industry in the Netherlands belongs to the Top 5 of the world.

Established nearly half a century ago, the association IRO is an independent non-profit organization that supports and promotes the interests of its nearly 450 member companies. Acting as the gateway to Dutch suppliers in the energy industry, the IRO mission is ultimately aimed at maintaining and strengthening the position of the Dutch Oil, Gas and Offshore Renewable industry by creating a level playing field for its members. A sharp focus on cost efficiency, innovation and sustainability within the Dutch supply industry are instrumental to achieve this goal.

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

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## KOSO Kent Introl

### Exhibit Booth #219

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 complete manufacture and testing of Subsea Choke and Subsea Process Control valves as well as Topsides standard service control valves, severe service control valves, high-technology surface choke valves and high-performance rotary valves for the oil and gas, petrochemical and power industries.

KOSO Kent Introl Limited products are engineered by highly qualified and experienced personnel and our plant is accredited in accordance with Quality Management System ISO 9001 / TS 29001, API 17D, API 6A monogram and Environmental Management System ISO 14001 / ISO 18001. All products, where applicable, conform to ATEX, PED and all other applicable EU Directives and CE marked accordingly. Our standard manufacturing experience includes NACE MR01.75, NORSOK, API 6A and individual customer specifications

## EXHIBITORS AND SPONSORS

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### Magma Global Ltd

#### Gold Registration Sponsor & Exhibit Booth #311

Magma Global aims to simplify subsea oil and gas architecture and reduce cost through innovation. Our expertise in composite materials, manufacturing, exploration and production has allowed us to develop game changing pipe technology. We combine carbon fibre with the most advanced oil field polymer; fusing them together using robots and lasers. The result is the world's toughest carbon fibre pipe: m-pipe®. Made from PEEK and carbon fibre, m-pipe simplifies subsea architecture thanks to its low weight, high strength, flexibility and standardised design. m-pipe is used as flowlines and jumpers by major operators around the world and achieves installed cost savings of up to 65%. Magma's technology is now solving riser challenges and is incorporated into hybrid solutions by TechnipFMC and Ocyan.

### MCDERMOTT

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### McDermott

#### Diamond Wednesday Lunch & Bronze Continental Breakfast Sponsor

McDermott is a premier, fully integrated provider of technology, engineering and construction solutions to the energy industry.

For more than a century, customers have trusted McDermott to design and build end-to-end infrastructure and technology solutions to transport and transform oil and gas into the products the world needs today. Our proprietary technologies, integrated expertise and comprehensive solutions deliver certainty, innovation and added value to energy projects around the world.

Operating in over 54 countries, McDermott's locally focused and globally-integrated resources include approximately 32,000 employees, a diversified fleet of specialty marine construction vessels and fabrication facilities around the world.



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### MODEC SOFEC

#### Silver Speaker Gifts & Awards Sponsor

MODEC, Inc., headquartered in Japan, is an owner, operator and EPCI general contractor of floating production systems for offshore Oil and Gas industry including Floating Production Storage and Offloading (FPSO) units, Floating Storage and Offloading (FSO) units, Floating Liquefied Natural Gas (FLNG), Tension Leg Platforms (TLP), Semi-Submersibles and FSRUs. MODEC has developed a Floating Storage Regasification Water-Desalination & Power-Generation (FSRWP®) concept with a mission to utilize its accumulated operational and design experience in floating production systems and the increasingly available of LNG to bring clean Power and Water on an IPP, EPCI, BOO or BOOT basis within 24 months of contract award.

SOFEC Inc., a MODEC group company, is a leader in the development and supply of Single-Point Moorings (SPM), and is engaged in research related to state-of-the-art tanker mooring systems and associated components. Projects range from Front End Engineering Design (FEED) contracts to full Engineering, Procurement and Construction (EPC) Projects.

EPC Projects supplied by SOFEC include Marine Terminals for hydrocarbon import and export, as well as SPM turrets, tower yoke and spread moorings for tanker based Floating Production Systems. SOFEC's mooring solutions are installed throughout the world in water depths ranging from 11 meters to 2,300 meters.



**WEB:** [www.nov.com](http://www.nov.com)

## NOV

### Silver Padfolio & Pen & Exhibit Booth #305

National Oilwell Varco (NOV) is a leading provider of technology, equipment, and services to the global oil and gas industry. NOV has been pioneering innovations that improve the cost-effectiveness, efficiency, safety, and environmental impact of oil and gas operations since 1862. NOV's offerings support full-field, drilling, completion, and production needs both onshore and offshore.

NOV operates through three business Segments: Rig Technologies, Wellbore Technologies, and Completion & Production Solutions.

NOV Completion & Production Solutions integrates technologies for well completions and oil and gas production. We design, manufacture and sell equipment and technologies needed for hydraulic fracture stimulation, well intervention, and artificial lift systems. In addition, we have a rich portfolio of solutions for offshore production including floating production systems, mooring and loading systems, and subsea production technologies.

From leading connectors, to disruptive subsea technologies and integrated topside solutions, our experts apply added flexibility, improved productivity, and reduced cost throughout your projects whilst enabling optimum recovery of reserves and maximizing the flow of hydrocarbons for the ultimate return of investment.

In every environment, we bring together engineering and operational expertise and field-proven solutions with a foundation of safety and risk management that help you control costs and achieve lasting success.



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## Oceaneering

### Silver Water Bottle Sponsor

At Oceaneering, we do things differently, creatively, and smarter. As your trusted partner, Oceaneering pushes the boundaries to solve your subsea challenges. As the world's largest ROV operator and the leading ROV provider to the oil and gas industry worldwide, our assets include thousands of ROV tools, the largest fleet of IWOCs equipment worldwide, industry-leading flow assurance solutions, and reliable decommissioning equipment.

The development of our self-contained, battery-powered E-ROV and the new Freedom resident ROV combines our unmatched experience along with remote piloting and automated control technology, and our onshore mission support centers to safety and cost-effectively improve efficiency and de-risk operations.

With our safety-focused and innovative approach, Oceaneering pushes the frontiers of deep water to solve drill support, completion, production enhancement, and decommissioning challenges— from routine to extreme.

By working together, we will safely and reliably re-shape the future of the oil and gas industry.

## EXHIBITORS AND SPONSORS

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### OneSubsea, a Schlumberger company Diamond Delegate Bag Sponsor

OneSubsea, a Schlumberger company 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.



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### Quest Floating Wind Energy (Q FWE) Thursday Lunch Sponsor & Exhibit Booth 408

Q FWE provides market intelligence and consulting focused on Economics, Finance and Technology within the alternative energy landscape focused on offshore wind, specifically floating wind energy. Q FWE's mission is to unite, educate and expand the global offshore floating wind industry leveraging Quest Offshore's energy expertise, experience and network to connect various disciplines and bridge services within this burgeoning sector.



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### Quest Offshore Conference Organizer & Exhibit Booth #408

Gulf Quest – Gulf Quest is a partnership between Gulf Energy Information and Quest Conferences LLC for the joint operation of offshore conferences and events dedicated to the advancement of global exploration and production and related deepwater technologies, including the leading global deepwater technology event, MCE-DD Deepwater Development. Newly launched executive level events include Deepwater Executive Summit, held annually in Houston, and Global Offshore Brazil Summit.

Quest Offshore – Quest Offshore Resources is dedicated to providing market expertise, consulting advisory services, data analytics, market research and technical conferences to our clients including MCE-DD Deepwater Development, a leading deepwater oil & gas event in Europe, now in its 15th year.

Quest Floating Wind Energy – Q FWE provides market intelligence and consulting focused on Economics, Finance and Technology within the alternative energy landscape focused on offshore wind, specifically floating wind energy. Q FWE's mission is to unite, educate and expand the global offshore floating wind industry leveraging Quest Offshore's energy expertise, experience and network to connect various disciplines and bridge services within this burgeoning sector.

Quest's Latin America Energy Practice – We offer clients our market and technical expertise encompassing renewables and the entire energy value chain (upstream/midstream/downstream). Our methods apply a bottoms-up / top-down approach; rigorous quantitative and qualitative research; market reviews and demand modelling; competitive assessment and benchmarking; first source referencing (market/client/customer); as well as M&A advisory and market evaluation.



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## Royal IHC

### Associate Sponsor & Exhibit Booth #307

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. With our commitment to technological innovation we strive to continuously meet the specific needs of each customer in a rapidly evolving world.

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## SAIPEM

### Exhibit Booth #100

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

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## Salamander

### Exhibit Booth #218

Salamander sets a new standard for electric heaters for well and flowline heating applications over extended lengths and harsh conditions, un-matched by other systems. This can provide true flow assurance, increased flow, and lower capital and operating cost.

Founded in 2017, based on over a decade of Shell's heater-based thermal recovery technologies, by a team having extensive accumulated know-how in the heater systems. This allows Salamander to offer the customer a complete suite of services from temperature and reservoir modeling to design and consulting. Our heater cable technology and its applications are underpinned by over a 100 patents and trade secrets, all owned by Salamander.

The Salamander cables are proven in the field in numerous wells at high temperatures and a suite of connectors, splices, and terminations designed for high reliability and installation in harsh conditions. Salamander heater systems present a game-changing opportunity in the deepwater/subsea environment by preventing and/or remediating hydrates and wax plugging as well as enabling lower-cost alternatives for new developments and tying back stranded volumes to existing hosts.

We can also assist with heavy oil and steam heated recovery methods such as SAGD and CSS.

## EXHIBITORS AND SPONSORS

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### Subsea Integration Alliance

OneSubsea & Subsea 7

### Subsea Integration Alliance

#### Diamond Wednesday Evening Event Sponsor

Increasingly complex subsea infrastructure projects and interface challenges have made achieving on-time and on-budget delivery more and more difficult. To help customers improve recovery, shorten scheduling, and reduce risk across the project life cycle, OneSubsea and Subsea 7 formed Subsea Integration Alliance.

Our objective is to jointly design, develop, and deliver integrated subsea development solutions by leveraging and improving upon the companies' technologies, cultures, and experience. Utilizing an integrated team, customers receive comprehensive solutions from the reservoir to subsea production systems (SPS) to subsea umbilicals, risers, and flowlines (SURF) and beyond—with fewer interfaces, less downtime, maximized efficiency, and more recovery.



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### The Society for Underwater Technology (SUT)

#### Supporter

The Society for Underwater Technology, established in 1966, is an international Learned Society for Marine Science & Technology. SUT has Branches in 10 countries, and membership is drawn from offshore engineering, fossil fuel & renewable energy, defence, robotics, education, science, training and media sectors. SUT provides specialist training, special interest groups and branch activities, and sponsors students at universities throughout the world. SUT is also active in the development of ocean policy & law, with observer status at UNESCO's Intergovernmental Oceanographic Commission & membership of government and industry working groups.

Teledyne

**WEB:** [www.teledyne.com](http://www.teledyne.com)

### Teledyne

#### Exhibit Booth #217

##### Fuel Cell System

Teledyne's proven proton exchange membrane (PEM) fuel cell technology provides excellent efficiency and long life (>10,000 hrs.). The stack design is specifically tailored for operation with pure oxygen and includes design aspects generated through years of experience with this technology. The fuel cell system features an integrated balance-of-plant (BoP) with ejector driven reactant (EDR) technology for reactant recirculation. The BoP allows the fuel cell stack to be fed reactants in a "dead-ended" configuration maximizing energy delivery.

##### Reactant Storage

The fuel cell system is reactant storage agnostic. Reactants can be supplied via compressed, cryogenic, or solid-state reactant storage systems. The Subsea Power Node is equipped with a compressed-gas reactant storage system. This storage system is at a technology readiness level (TRL) of 9 and is commercially refillable.

##### High TRL

Teledyne has a proven history of supplying high reliability fuel cells to NASA and other customers.

Tenaris

**WEB:** [us.tenaris.com](http://us.tenaris.com)

## Tenaris

### Exhibit Booth #212

Tenaris is a leading supplier of tubes and related services for the world's energy industry and certain other industrial applications. Our mission is to deliver value to our customers through product development, manufacturing excellence, and supply chain management. We seek to minimize risk for our customers and help them reduce costs, increase flexibility and improve time-to-market.

Tenaris consists of a network of manufacturing facilities, R&D centers, service centers and commercial offices that spans the globe. We provide casing and tubing, line pipe and other mechanical and structural steel pipes for different applications. Our state-of-the-art manufacturing facilities have a production capacity of over six million tons per year.

We manufacture our steel pipe products in a wide range of specifications, under strict quality standards and complying with ISO 9001 requirements.

Tenaris employees around the world are committed to continuous improvement by sharing knowledge across a single global organization.

Tenaris promotes the professional growth of its more than 21,000 employees worldwide through TenarisUniversity.



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**WEB:** [www.total.com](http://www.total.com)

## Total

### Diamond Conference Program Sponsor

Total is a major energy player, which produces and markets fuels, natural gas and low-carbon electricity. Our 100,000 employees are committed to better energy that is safer, more affordable, cleaner and accessible to as many people as possible. Active in more than 130 countries, our ambition is to become the responsible energy major.

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## Vallourec

### Exhibit Booth #500

Vallourec is a world leader in premium tubular solutions for the energy markets and for demanding industrial applications including oil and gas projects. Relying on 19,500 employees in more than 20 countries, Vallourec works hand-in-hand with customers to deliver innovative, reliable, competitive solutions to make every project possible.

Offshore solutions

Vallourec proposes a dedicated offer for your offshore projects, including:

- Seamless Line Pipe for Offshore applications (Risers and Flowlines)
- Solutions for ultra-deep and sour service environments (Upset riser ends, tapered joints)
- Serimax welding and field joint coating services

By combining line pipe manufacturing expertise with welding and associated services, Vallourec is able to provide you with an integrated offer to mitigate problems and delays that are often encountered during installation.

## EXHIBITORS AND SPONSORS

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**WEB:** [www.woodplc.com](http://www.woodplc.com)

Digital offer: Introducing Vallourec.smart

To help its customers improve operational performance across each step of the value chain, Vallourec developed a comprehensive new service offering. Through its client-focused framework, Vallourec.smart ensures full pipe traceability and integrity, as well as management of assets during and after installation, leading to a reduction in operational costs. This new service offer encompasses:

- Digital data book: to provide at any time access to pipe related data
- Digital traceability solutions: to simplify storage and logistics.
- Digital pipe fitting solutions: to speed up line pipe installation process.

### Wood

#### Diamond Lanyard Sponsor

Wood is a global leader in the delivery of project, engineering and technical services to energy and industrial markets. We operate in more than 60 countries, employing around 60,000 people, with revenues of over \$10 billion. We provide performance-driven solutions throughout the asset life cycle, from concept to decommissioning across a broad range of industrial markets, including the upstream, midstream and downstream oil & gas, power & process, environment and infrastructure, clean energy, mining, nuclear, and general industrial sectors. [www.woodplc.com](http://www.woodplc.com)



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### World Oil

#### Conference Organizer, Official Media Supporter, Exhibit Booth #410

World Oil, established in 1916 as The Oil Weekly, is published monthly by Gulf Energy Information. For more than 100 years, World Oil has provided readers with coverage of the latest information and technological advances relating to the exploration, drilling, completion and production of offshore and onshore oil and gas.

World Oil's mission is, "Defining Conventional, Shale and Offshore Technology for Oil and Gas." World Oil readers are global, qualified upstream engineers, management, and operating professionals. World Oil brings buyers and sellers together through World Oil's superior, audited circulation and engaged online audience.

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### XODUS Group

#### Exhibit Booth #215

Xodus provides engineering and advisory services to clients in the oil and gas, LNG, renewables and utilities industries worldwide. Our clever and innovative thinking helps clients to overcome challenges and maximise their return on investment.

We deliver successful projects by bringing together experts in engineering, design, environment, safety, risk, integrity, vibration, project management, training, and strategic and commercial advice to work in highly integrated teams, following a clear project execution model. Backed up by specialist tools and training, our capabilities span the numerous disciplines involved in delivering complex projects. Clients benefit from our expertise that is independent and informed by our learning from working on projects around the world.

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## **Zetechtics**

### **Exhibit Booth #211**

Zetechtics have an excellent track record for providing the best technical solutions to our customers working in the harshest environments worldwide, solving customers' problems and for providing new and innovative products into the Subsea Tooling & Intervention Control Industry.

During MCEDD 2019 Zetechtics will be showcasing several new Jupiter products;

- Jupiter AIM – (Asset Integrity Monitor) – Shock & Vibration and oil condition monitoring.
- Jupiter IO – 24 port Fast Ethernet Switch / hub and Data Mux
- Jupiter Micro Io - Single-Fibre Multiplexer

Zetechtics are also proud to announce that the Jupiter brand of control systems have been very successfully deployed in Ghana on well workover Scale Squeeze equipment using dual redundant fibre optic controls to manage pressures up to 690Bar in the bore where high integrity and reliability are key to the successful operation of the scale squeeze equipment. The Jupiter brand range of control products was chosen to provide a powerful mix of multi-functional, adaptable and user configurable software that is backed up by a 24/7/365 product support team.

We would like to take this opportunity to thank our clients, suppliers and staff for their contribution and support, enabling Zetechtics to become 'Global Market Leaders' for innovation, subsea control and instrumentation.

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