

# SUBSEA CONTROLS 2019

25. - 26. September 2019  
Radisson Blu Caledonien Hotel, Kristiansand

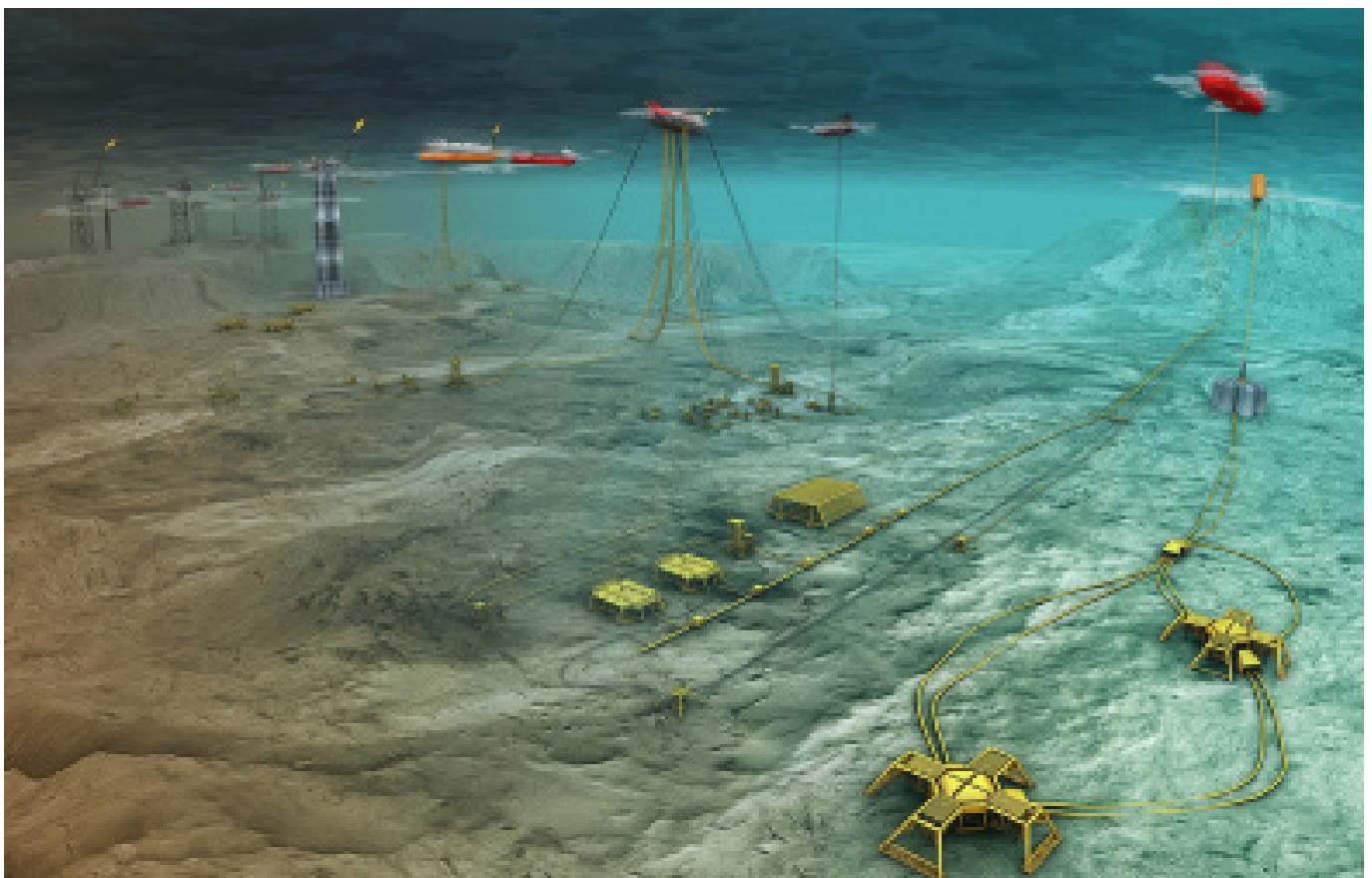


Photo: TechnipFMC



The conference “Subsea Controls 2019” will this year aim for an international audience, as we consider this professional arena to be of interest for the whole subsea business, not only for operators and vendors on the Norwegian continental shelf. We have also underlined this year the focus on Subsea Controls and we will address questions on All-electric, Functional Safety and Condition Monitoring in a thorough way through multiple lectures on each subject originating from different point of views, both for new field developments and brown fields perspective.

Actors working with subsea control systems and technology, have lived through a period which has challenged their system solutions and products. However, this has helped to improve both quality and performance of new solutions and products set in operation. Innovations in subsea intervention have come to light, which provide new exciting opportunities in the borderland between field control and field operations.

At the end of day one, we offer an exciting panel discussion on “Future Interfaces” – lead by a representative from a major operator – Equinor – and he will most certainly challenge the participants on how he shall position his business to meet the new technical solutions.

Day two of the conference, is focused around exchanging experiences from different operators. But: at the end of the day we will also take time to try to look more into the future – what awaits the subsea operators in near future – and what technical innovations will be available in a further perspective.

## 25. SEPTEMBER

<p><b>09:00</b> Registration</p> <p><b>09:50</b> Welcome Karin Sundsvik, NFEA</p> <p><b>10:00</b> <b>Subsea picture: Chief Researcher’s Reflections</b> Cecilie Gotaas Johnsen Equinor ASA</p>	<p><b>14:15</b> <b>Part 1: Safety 4.0</b> Tore Myhrvold DNV GL</p> <p><b>Part 2: Experience from other industries on fail-safe design concepts</b> Kenneth Kvinnesland DNV GL</p>
<p><b>All electric</b> Chair: Bjørn Haavengen, TechnipFMC</p>	<p><b>14:45</b> <b>Break</b></p> <p><b>15:15</b> <b>Non SIL implementation of IEC 61508/61511 on Subsea Production Control Systems</b> Rory MacKenzie Deep Offshore R&amp;D Program Subsea Electrical Technologies TOTAL</p> <p><b>15:45</b> <b>Subsea SIL sensors experience</b> Edgar Vorland Siemens Subsea Sensors</p>
<p><b>10:30</b> <b>Architecture and system solutions</b> Kristin Nergaard Berg DNV GL</p> <p><b>11:00</b> <b>Subsea all-electric: Status and way forward</b> Egil Dino Hansen Equinor ASA</p> <p><b>11:30</b> <b>Break</b></p> <p><b>12:00</b> <b>Recent applications of electric actuation technology</b> Egil M. Skrivervik TechnipFMC</p> <p><b>12:30</b> <b>All Electric SPS - Safety System Architectural challenge</b> Einar Winther – Larssen Aker Solutions AS</p> <p><b>13:00</b> <b>Lunch</b></p>	<p><b>16:15</b> <b>Break</b></p>
<p><b>Functional Safety</b> Chair: Daniel Abicht, Equinor ASA</p>	<p><b>16:30 -17:15</b> <b>Panel discussion: Future Interfaces</b> Chair: Daniel Abicht, Equinor ASA Participants: Total – Rory Mackenzie OneSubsea – Ulrich Kleine TechnipFMC – Christian Meum Siemens – Endre Brekke Blue Logic - Helge Sverre Eide</p>
<p><b>14:00</b> <b>Functional safety in current regulation</b> Asbjørn Ueland Petroleum Safety Authority Norway</p>	<p><b>18:45</b> Attendance at reception for a common walk to Christiansholm Fortress</p> <p><b>19:00</b> Conference dinner at Christiansholm Festning/Fortress (Adress: Østre Strandgate 52B)</p>

Thanks to our sponsors:



## 26. SEPTEMBER

### Brownfield

Chair: Einar Winther-Larssen, Aker Solutions

**08:30 Balder SCS. Why a simple design has worked longer than expected**  
Carlos Sayas  
Subsea Control Systems  
Vår Energi AS

**09:00 Pierce : Keeping it producing for 30 years**  
Bruce Gardner  
Shell UK

**09:30 Brownfields extended life and enabling new standards**  
Tore Erntsen, CTO  
Subsea Controls  
Proserv Norge AS

**10:00 Break**

### Process control and condition monitoring

Chair: Endre Brekke, Siemens

**10:30 Ormen Lange – Technology and concepts**  
Per Birkeland/Jan-Olav Hallset  
Norske Shell

**11:00 The consequences of water ingress into subsea cables**  
Neil Douglas, Managing Director  
Viper Innovations Ltd.

**11:30 Communication and Control for the new Subsea Power Distribution System**

Kai Hansen  
ABB

**12:00 Lunch**

### New Solutions

Chair: Asmund Mæland, ABB

**12:45 Modularity – open control solutions**  
Gjermund Mathisen  
Lundin Norway AS

**13:15 Subsea 2.0. A new approach to modularity**  
Håvard Thuen Jensen  
TechnipFMC

**13:45 Underwater Intervention Drone control system**  
Daniel Abicht  
Equinor ASA

**14:15 End of conference**

## PRACTICAL INFORMATION

### Time and place for the conference:

25. - 26. Septmeber 2019  
Radisson Blu Caledonien Hotel  
Vestre Strandgate 7, 4610 Kristiansand, Norway

**Registration:** Register for the conference at [www.nfea.no](http://www.nfea.no) or email: [nfea@nfea.no](mailto:nfea@nfea.no)

### Cancellation:

Cancellation later than three weeks before the conference will be charged with a fee of NOK 2.000,-.  
Cancellation later than one week will be charged with the full fee.  
Cancellation needs to be notified in writing to be valid.

### Participant Fee:

Company member	kr. 7 000,-
Personal member	kr. 7 000,-
Education member	kr. 4 000,-
Education Non member	kr. 5 000,-
Non member	kr. 9 000,-

### Exhibition (max 3 m. length)

-inclusive one participant:

Members	kr. 12 000,-
Non members	kr. 14 000,-

### Exhibition incl. logo:

- inclusive one participant

Company member	kr. 16 000,-
Non member	kr. 18 000,-

### Logo in the program:

Members	kr. 5 000,-
Non members	kr. 7 500,-

**Exhibitors can rig up stand from Wednesday at 08:00**

### Program Committee:

Committee Leader Bjørn Haavengen – TechnipFMC  
Daniel Abicht - Equinor ASA  
Lars Kristian Asbjørnsen – AS Norske Shell  
Endre Brekke – Siemens AS  
Gjermund Mathisen - Lundin Norway AS  
Asmund Mæland - ABB  
Einar Winther-Larssen, Aker Solutions AS  
Tonje Olsen - NFEA  
Karin Sundsvik – NFEA

### Hotel:

We have reserved some rooms at Caledonien Hotel.  
Booking link at the NFEA Eventpage.  
Booking deadline: 4th of September  
Rooms that's not reserved within the booking deadline will be released. Guests can book rooms according to this agreement after the deadline upon availability for the same room category.  
Rooms are not guaranteed for late arrival.

### Dinner at 25th of September:

NFEA will arrange a dinner at "Christiansholm Festning".  
Price: NOK 850. We hope you will attend this social gathering.  
Sign up for the dinner latest within 13th of September.

### Exhibition:

Exhibition in mingle area outside the conference hall incl. table, chair, power outlet and tablecloths.

### Membership in NFEA:

Company member NOK 5 000,-  
Personal member NOK 500,-  
Education/research companies NOK 5 000,-  
Students are free of charge.

## EXHIBITORS:

**FOSSTECH AS**

**C-Kore Systems Ltd**

**CDP Technologies AS**

**Viper Innovations Ltd**

**Blue Logic AS**

**Naxys AS**

NFEA is not responsible for expenses participants may have in connection with the conference due to unforeseen events like flight cancellations etc.

The program is subject to change.