OTC 2019 technical sessions schedule
May 6 - 9, 2019 | Houston, Texas, USA
**Digitalization Goes Subsea**

This presentation discusses the requirements for a “next-generation” subsea control system and describes the proposed setup/architecture which integrates subsea control and historian systems directly into the existing topside control and historian systems. Implementation of an anti-surge control system is used as an example to illustrate the concept for control of operations, and the use of AI and historical stored data are used as examples for topside digitalization techniques used on subsea installed equipment.

*Monday, May 6th at 11:42 a.m. in Room 312*

*Paper # 29226  |  Presenter – K. Berge Kristiansen*

**Updated Case Study: The Pursuit of an Ultra-Low Manned Platform Pays Dividends in the North Sea**

The use of a unique, data-driven approach to remote condition monitoring of equipment maintenance has enabled a major offshore E&P producer to build and operate a low-manned platform. This presentation offers an update to a 2018 OTC conference presentation when this use case was introduced (based on operations and observations during the platform’s first full year of operation).

*Tuesday, May 7th at 10:14 a.m. in Room 604*

*Paper # 29606  |  Presenter – S. Settemsdal*

**The Evolution of Asset Management:**

**Harnessing Digitalization and Data Analytics**

Underwriting the costly insurance of complex oil and gas projects requires careful risk assessment of numerous factors via long-standing criteria. Learn how E&P operators can now use today’s advanced asset management technologies like the digital twin, data analytics, and secure IoT connectivity to better quantify the probabilities of untoward events and mitigate their risks, improving their HSE posture, and potentially reducing the cost of their insurance premiums.

*Tuesday, May 7th at 10:58 a.m. in Room 604*


**New Concepts for a Normally Unattended Installation (NUI) – Design, Operation, Automation and Digitalization**

This presentation discusses a novel method for simulating the removal of fine oil droplets from produced water by the gas flotation process based on the use of computational fluid dynamics (CFD). The presentation aims to demonstrate how CFD simulation is commonly used to model gas flotation systems and processes and discusses some of the many technical challenges faced in capturing the complete physics involved before introducing a method developed that provides an efficient method to predict oil removal potential in produced water systems.

*Wednesday, May 8th at 11:20 a.m. in Room 610*

*Paper # 29466  |  Presenters – S. Grosse, P. Azevedo*

**Practical Method for Simulating Flotation for Produced Water System Design**

This presentation discusses a novel method for simulating the removal of fine oil droplets from produced water by the gas flotation process based on the use of computational fluid dynamics (CFD). The presentation aims to demonstrate how CFD simulation is commonly used to model gas flotation systems and processes and discusses some of the many technical challenges faced in capturing the complete physics involved before introducing a method developed that provides an efficient method to predict oil removal potential in produced water systems.

*Wednesday, May 8th at 11:20 a.m. in Room 610*

*Paper # 29466  |  Presenters – S. Grosse, P. Azevedo*

**Overcoming the Obstacles of Financing Offshore Wind Projects**

This presentation is designed to help various stakeholders involved in offshore wind projects identify and overcome the challenges of financing offshore wind projects. It presents key considerations for debt and equity financing during the development (i.e., early stage), construction, and operational project phases, and outlines the benefits of adopting a joint go-to-market approach that combines equipment, services, and financing solutions into a single bundled package.

*Wednesday, May 8th at 11:20 a.m. in Room 610*

*Paper # 29466  |  Presenters – S. Grosse, P. Azevedo*

**A New All Electric Subsea Control System Development**

This presentation discusses a program around the development of subsea separators and a subsea water treatment and injection process composed of several modules that requires new subsea technology (e.g., subsea barrier fluid-less water injection pumps, filters, special water analyzers, etc.). Within the ongoing industrialization program of the new technologies, a Joint Development Agreement was put into place to qualify the open framework platform for the control of subsea processes.

*Wednesday, May 8th at 2:00 p.m. in Room 606*

*Paper # 29356  |  Presenters – C. Monteverde, M. Novello, Sapem and K. Kristiansen*

**Considerations and Strategies for Financing Integrated LNG to Power Projects**

With increasing population growth and deficits in power generation capacity in many developing parts of the globe, the LNG-to-power concept has emerged as an important driver of future sustainability. This presentation will outline the many challenges that must be addressed in order to bring LNG-to-power projects to life, with a focus on the unique risk elements that are presented to lenders and investors throughout development.

*Thursday, May 9th at 9:52 a.m. in Room 604*

*Paper # 29662  |  Presenter – B. Hoffman*