SPOTLIGHT ON INNOVATIVE OIL & GAS SOLUTIONS

HOUSTON, WEDNESDAY, MAY 8TH, 2019 FROM 2.00 PM – 6.00 PM.

The Danish Energy innovation Cluster and The Trade Council of Denmark hereby invites you to an afternoon with innovation, collaboration and networking in Houston, during the Offshore Technology Conference (OTC) 2019 in Houston.

Energy Innovation Cluster and partners will present projects by Danish companies with unique innovative solutions to the oil and gas industry and networking between U.S and Danish companies.

LOCATION: Danish Consulate General in Houston, the Williams Tower, 2800 Post Oak Boulevard, Suite 1910, Houston, TX 77056 - United States

EVENT PROGRAM

2.00 PM – 2.30 PM: Networking and a light lunch (optional)

2.30 PM – 2.40 PM: Welcome, Energy Innovation Cluster & The Trade Council of Denmark

2.40 PM – 3.30 PM: Presentation: Innovation Project H2SMAN (Unisense and the University of Aalborg)

3.30 PM – 5.00 PM: Presentation of Danish O&G companies with unique competences

5.00 PM – 6.00 PM: Networking B2B meetings between U.S and Danish companies / Networking drinks

REGISTER: Tickets are FREE, ABSENCE FEE IS $100 USD. Register at the following link: www.eicluster.dk/innovative-o&g/

For further information, please contact Tim Villadsen at Energy Innovation Cluster:
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THE EVENT IS ORGANIZED AND SUPPORTED BY:

UDENRIGSMINISTERIET
Ministry of Foreign Affairs of Denmark

ENERGY INNOVATION CLUSTER

DESCRIPTION OF THE H2SMAN PROJECT

Participating organizations: *Unisense A/S, Pieter Mouritsen A/S, LIC Engineering, Aalborg University, Hess Denmark ApS*

The H2SMAN project targets development and full-scale testing of a sensor-based H2S management system for use in the oil and gas industry. **The system will enable operator to eliminate overdosing and discharge of excess scavenger, thereby significantly reducing their environmental impact from their operations.** Further the system will enable operators to significantly optimize their costs associated with consumption of H2S scavenger chemicals. It is estimated that by implementing the dosage system a total reduction in the H2S scavenger consumption of up to 30% will be gained.

Within the scope of the H2SMAN project, a full-scale H2S management system will be built, installed and tested on two offshore oil and gas installations in the Danish part of the North Sea. A system comprising real-time continuous H2S concentration measurement using a H2S detection sensor along with an integrated and automated scavenger-dosing system has never been developed nor tested full-scale offshore before.

Today, no system is available which enables operators to continuously and automatically adjust their H2S scavenger injection based on actual levels of H2S in the gas stream. Overdosing of scavenger does not only pose an excessive monetary spend on chemicals for the operator – it also indirectly increases expenses related to maintenance, as the presence of excess scavenger causes scaling in the entire compressor and injection system. Further, it also poses a large strain on the environment, as the excess scavenger is present in the waste water which is either re-injected into the reservoir as pressure support or discharged into the sea. **By designing a system, which only adds the necessary scavenger to the produced hydrocarbons, the amount of discharged scavenger chemicals will be reduced by up to 30%.**

THE OBJECTIVES OF THE H_2SMAN PROJECT ARE:

- Design of the H_2S management system; the design will be applicable for integration on existing offshore production facilities.
- Build the H2S management system. Preparation, installation and integration of the system on two offshore production facilities operated by two different operators.
- On-site test to demonstrate and verify optimal measuring point on offshore facilities.
- Analyze and validate data and confirm full business case for implementation of the H2S management system.
- Prepare to commercialize the H2S management system.