

# IADC SPARKTANKS

## Download presentations from the 12 December IADC ART Spark Tank

The IADC Advanced Rig Technology (ART) Spark Tank was held on Wednesday, 12 December, 2018, at IADC's new headquarters at [3657 Briarpark Drive](#), Suite 200, Houston, TX 77042.

The mission of the IADC ART Spark Tank is to provide opportunity to provide technology entrepreneurs an opportunity to pitch their products and ideas ("Sparks") to a panel of drilling contractors and operators ("Sharks"). The purpose is to provide insights to technology developers into what matters to those they are innovating for. Only Sharks ask questions of the presenters.

IADC is grateful to its Sharks for sharing their time, talents, and expertise. Sharks for the 12 December Spark Tank were:



Doug Zimpfer



Rob Shank



Terry Loftis



Robin Macmillan

- Doug Zimpfer, Team Lead Process Safety Technology, Shell
- Rob Shank, Sr. Director Global Drilling Operational Excellence, Parker Drilling
- Terry Loftis, Managing Director, Loftis Offshore-Oilfield Consulting
- Robin Macmillan, Sr. Vice President, NOV, ART Chair (moderator)

## Agenda

8:30 [Coffee and networking](#)

9:00 **Welcome & Introductions** – Robin Macmillan, IADC ART Chair

## 9:10 Facility Update & [IADC Antitrust Guidelines](#) – Linda Hsieh, IADC

*Speakers have 15 minutes, with 15 minutes allotted for Sharks' Q&A:*

### 9:15 “[OpsLock – Avoiding Risk and Increasing Efficiency](#)”: Joe Meadows, OpsLock

OpsLock is focused on helping the front lines of the oilfield spend less time on repetitive paperwork while performing predictive analytics on workforce behavior, empowering management with insights into non-productive time, real-time monitoring, and notification of developing risk profiles. Opslock provides a platform to simplify and digitize the collection and management of data in a way that addresses the unique concerns of the oilfield. Beyond a administrative tool, OpsLock uses HSE paperwork as a data-collection tool to gather information on the workforce and their behavior, and then connect that information to the integrated incident and audit reporting tools. By tracking activity from the moment a job starts to any incidents or accidents, trends in workforce behavior can be identified. Those trends can then be predictively applied to ongoing activity.

### 9:45 “[Cable Shark – Cut & Slip Process](#)”: Chuck Sullivan, Cable Shark

The slip & cut process has changed minimally since rigs began using large-diameter steel drilling line. The process has always been cumbersome, hazardous and time-consuming, and exposes rig hands to significant safety dangers. Cable Shark has designed, developed and is building a revolutionary unit to remotely cut and assist in installing drilling line during the slip & cut process on a drilling rig. The unit is encased in a 1 ½-in. thick steel box with a door that opens to insert the drilling line. There are rollers, pistons, pumps and a hydraulic cutter to manage the remote control of cutting and management of the drilling line. The unit will mount directly on the drawworks or on a stand just above the drawworks opening. It is designed to accept the drilling line coming out of the drawworks and moves back and forth on an "I" beam to travel with the drilling line either coming off or going on the draw works spool. The unit is dual purpose in that it completely manages the cutting process safely and efficiently and assists in installing the new drilling line on to the drawworks drum.

### 10:15 Break

### 10:30 “[Bulk Mixing and Material Handling Technology](#)”: Kent Satterlee, DrillSafe Fluids Management

Offshore drilling is complex, risky and expensive. The technical, safety and environmental expectations have ratcheted up significantly in recent years. Drilling fluid is one of the primary safety barriers in drilling. DrillSafe Fluids Management has developed bulk mixing and material handling technology that can be installed on any drilling rig. The skid-mounted technology borrows from the bulk mixing and material handling industry that has developed systems for the paint, food and chemicals

industries. The technology has been deployed since 2002 on drilling rigs in the Gulf of Mexico and Africa.

**11:00 "[Resource Management Solution for Distributed Teams](#)":** Vinay Kakuru, Armos Ark

Using technology to push boundaries is not new to rig contractors. In fact, roll-out of super-spec rigs, automation and machine learning have set new well records. However, pathway to full digital transformation will require advanced physical assets as well as agile maintenance practices. Why now? Organizations with partial or soiled data struggle to drive cross-functional maintenance and reliability decisions; building new system is lengthy and expensive process, and buying generic off-the-self system is compromising on functionality; industry specific ecosystems are digitizing business to business transactions, and reducing manual handovers and other back-end processes. For distributed teams focused on driving operational efficiencies, our product helps drive faster, smarter decisions to control resource leakage across assets and activities by identifying consumption patterns and providing recommendations based on collective front-line expertise and soiled data.