



IADC ART Spark Tank

08.30-11.30, Wednesday, 11 December 2019
3657 Briarpark Drive, Suite 200, Houston, TX 77042

Thanks to our Drilling Sharks:

- Riaz Israel, Team Lead – Wells Technology, BP
- Matt Dalton, Technology Business Manager, Transocean
- Greg Osten, Manager of Projects, Parker Drilling
- Robert van Kuilenburg, Noble Drilling (ART Chair and moderator)

Agenda

8:30 **Coffee and networking**

9:00 **Welcome & Introductions** – Robert van Kuilenburg, 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 **[“Real-Time Oil Degradation Monitoring”](#)**: Tab Manning, Pratt Hydraulics

Contaminated oil is one of the leading causes of component and system failures in hydraulics. The goal is to be able to predict failures before they occur. A reliable and proven solution is implementing the TAN Delta Oil Quality Sensor into the system for real monitoring for instantaneous feedback of the oil quality on a holistic level.

9:45 **[“Predicting Time to Failure”](#)**: Sunil S. Vedula, CEO & Founder, Nanoprecise Sci Corp

Nanoprecise has created a patent-pending solution that combines physics, material science, and data analytics to diagnose issues with physical assets such as machinery and predicts the "Remaining Time to Failure." The sensor extracts RPM, vibration, sound, temperature & humidity information, and the software analyzes the data to achieve anomaly detection, fault characterization & remaining useful life prediction. The software is built on AI algorithms that had only been limited to research papers until now.

10:15 **Break**

10:30 **[“Salunda – Real-time Monitoring in the Derrick”](#)**: Jim Profit

11:00 **[“A Safer and More Efficient Drillpipe Spinner”](#)**: Paul Tompkins, Oilfield Products International (OPI)

OPI has developed a patent-pending drill pipe spinner that is safer, more efficient and versatile, making it a unique piece of equipment at any rig location. With these principles in mind, it is important to be intentional about every piece of equipment that goes into this process. OPI has created a viable solution to ensure these principles are upheld with their drill pipe spinner. Its versatility is evident in its technologically adept design, working seamlessly with rig augmentation software. Its efficiency is evident in its simplicity and maintenance friendly design, decreasing trip time by 40%. Furthermore, it can spin up and spinout drill pipe and tubulars both vertically and horizontally and can go from being a stand-alone spinner to a spinner directly installed in an Iron Roughneck.

11:30 **Adjournment**