



November 17-18, 2020 | Online Conference

Day One: Tuesday, November 17, 2020

8:30 am EST: Capturing the Value of Digital Twins: Fueling the Journey to Drive Exponential Savings in Operations & Maintenance

- Securing leadership buy-in and commitment
- The art of building a digital twin
- Project vs Performance: Understanding how the use case for digital twin technology can vary depending on the project lifecycle
- Managing the ever-changing assets
- Changing the way people work to realize value
- Digitizing operational processes
- Advancing asset integrity
- Successful journeys

Andy Cuthbert, Global Prevention, Relief Well Engineering & Technology Manager, Halliburton

Jennifer Hohman, Chief Information Officer & VP, Seadrill Management Ltd

Ken Nguyen, Digital Program Manager, Mad Dog 2, BP

David Dollar, Director Field Sales Enablement, Hexagon

Jaclyn Arnold, VP O&M Business, Hexagon

9:45 am EST: Where do Digital Twins Fit in? How to Make the Most of the Technology in Your Operations

In this presentation we will highlight how “platform based” Digital Twins offer the opportunity to oil and gas companies to improve by far the efficiency of their current IT infrastructure to reduce operating and maintenance expenses, but also to improve operation efficiencies while making better – and faster decisions.

- What tangible value such technology already brought in various industries?
- What is the critical enabling change to achieve such result?
- What are the main required capabilities of such Digital Twin technology applied to Oil & Gas facilities?
- How would it fit in an existing Oil & Gas Facility IT environment?
- How such Digital Twin can provide a better control of the on-going operations, but also better understanding of the past and a better prediction of the future?

Philippe Audrain - Energy & Materials Industry Business Consultant Director, Dassault Systemes

10:25 am EST Digital Twin: Raising it Out of the Realm of a Cliché for the Oil and Gas Industry

- Learn how the world’s largest oil and gas companies are defining their Digital Twin requirements to create immediate value given the current market headwinds facing the industry
- Understand how the combination of Engineering, Operational, and Maintenance information supported by a governing Information standard and predictive models are

empowering Oil & Gas companies to achieve their ambition of providing a decision support system to enable a digital workforce.

- Learn how AVEVA's digital twin cloud solution is helping the Oil and Gas industry deliver a Digital Twin to improve operational efficiency, prevent downtime, and reduce maintenance costs.

Amish Sabharwal, SVP, Engineering Business, AVEVA

11:15 am EST Operational Resiliency in a Time of Economic Uncertainty

Crude oil prices will slowly recover in the post-pandemic economy and digital solutions will be at the forefront in the recovery of operational viability. Companies will look for cost-effective solutions and will be forced to do more with less; requiring them to be operationally rigorous and exercise greater fiscal discipline.

O&G companies will emerge more lean, streamline complex processes, integrate fragmented processes and develop multi-skilled workforces. Twenty years ago, digital oil fields with automation and remote monitoring capabilities were novel ideas, today, with improved data capture, transmission and storage of data, these novel ideas have become more widely adopted.

Rafael Hernandez, Digital Transformation Fellow, PTC

11:55 am EST The Need for Performance Twins: Predict, Prescribe and Forecast

- Implementing Digital Twins is becoming a strategic necessity for many industrial companies. Although demand has increased, requirements and expectations have eroded, especially those of Digital Twin models
- Learn the basics of how Digital Twin models should be built, how to scale & implement these models on assets and systems to create a twin and discover best practices for how to leverage these twins operationally to Predict, Prescribe and Forecast performance degradation as a part of your reliability work processes.
- From building a 300+ asset blueprint catalog, an installed software base of over 420 customers globally and remotely monitoring 7000 assets around the world with quantified loss avoidance of over 1.5 Billion dollars, GE is working directly with customers to build and operationalize Digital Twins in harmony with their business processes and asset management functions.

Jared Hartness, Director Industry Solutions, GE Digital

12:40 pm EST: Real Time Digital Twins: The "How To" and Benefits of Bringing Real Time Visualization of Datasets From Disparate Systems

- Understand best practices in data acquisition and preparation for visualization
- Live linking data and representing it in 3D models provides insights for better decision making
- Create on-demand visualizations from a pool of available data
- Real Time Collaboration in the visualization tool and bringing stakeholders into a shared virtual world

Marc Francescangeli, Director, Training & Digital Twin Solutions, PureWeb

Joseph Hlady, President, Lux Modus

Pieter van Schalkwyk, CEO, XMPRO

9:00 am EST: Digital Twin in Asset Integrity Monitoring: Cutting-edge asset health monitoring, diagnostics and optimization to drive out cost and extend asset life

- Integrating inspection data with models and visualization
- Best practices to optimize asset utilization through advanced Asset Performance Management and Predictive Analytics capabilities
- Using digital twins for active controls adaption on assets
- Practical examples on how operational scenarios are created to predict maintenance schedules
- Providing fact-based decision support for equipment reliability issues

Hani Elshahawi, - Managing Director, NoviDigiTech LLC