



OPERATIONAL EXCELLENCE OIL & GAS LIVE

May 19-21 2020

DRAFT AGENDA

Day One: May 19, 2020

10:30 EST: CASE STUDY: Business Transformation: Preparing for the Impact of Digitalization on your business and your people

- The Transformation Journey: Shifting from passenger to driver on your journey
- People, Process & Technology: Creating the integration and having the strategic vision to put the business transformation 'wheels in motion'
- Growing people and changing behaviors: Why operational transformation is not just about redesigned business processes and new technology applications
- Organizational Readiness: Taking into consideration all aspects of the transition, including operational processes, roles and delegations of authority, documentation, data management, IT systems, resources, and governance
- Identification: How do you identify, develop, and design with current digital skills and capabilities required?

Deana A. Werkowitch, Vice President, Business Process Optimization, Crestwood Midstream

12:00 EST: Applying AI to Real-Time Drilling Data to Improve Operational Performance

In recent years, the US has risen to the second largest oil producer in the world. While multilateral drilling is a key enabler of this rise, it also accounts for up to a quarter of exploration and production costs. To serve the world's future energy needs, operators must innovate their processes to lower costs and improve drilling success ratios. In this session, learn how a large oil and gas company addresses this challenge by leveraging artificial intelligence to gain valuable insights from the huge amounts of realtime data generated by drilling rigs. Learn about the methodology for how to apply AI in a way that learns continuously and makes critical improvement recommendations. You'll also hear about results, including improvements in efficiency, speed and safety.

TIMESLOT HELD FOR SPONSOR

1:30 EST: The New Age of Operational Excellence

Never before has unlocking the business benefits of Operational Excellence been more important and more achievable. By executing Operational Excellence in new strategic and technologically-driven ways, it can be given new life. Now is the time for the new age of OE.

- Enable everyone across the organization to consistently make the most effective operational decisions based on an integrated view of operational reality
- Drive shared visibility, practical understanding and routine management of operational risk
- Support end-to-end operations activity management that enables teams to get more of the right work done safely and efficiently
- Address the hidden costs of inefficiencies and rework

3:00 EST: Case Study Human Performance & Risk Management: The Next Step in the Evolution of Risk and Incident Management in Oil & Gas

A human performance mindset acknowledges that to understand incidents, you have to understand the point of view of the people involved, and how people interact in a system. Human factors and performance are the next step in the evolution of risk and incident management in hazardous

industries. This session, led by BP's Hugo Ashkar will provide practical tools and tips to help you integrate human factors and human performance mindset into your safety and risk management programs.

- Understanding the actions of humans in complex systems
- What is the link between safety incidents and risk management barrier weaknesses?
- Identifying types of barriers: passive, active and procedural barriers - and using risk management tools and principles to prevent future incidents
- Understanding and improving how people interact with the plant, processes, and each other to create a safe state environment
- Investigating safety incidents: Asking 'what' and not 'who'
- Developing an approach to understand the actions of humans in complex systems
- How can you merge your safety rules with industry practices for better alignment?
- Looking at how we, as leaders, react to incidents – and how leader reactions determine how well organizations learn and prevent future incidents
- Developing a framework around human performance, including the elements against which you should measure performance

Hugo Ashkar, Global Risk Manager, BP



OPERATIONAL EXCELLENCE OIL & GAS LIVE

May 19-21 2020

DRAFT AGENDA

Day Two: May 20, 2020

10:30 EST: BP's Modernization and Transformation on a Major Capital Project

Ken Nguyen is the Digital Program Manager for one of BP's major oil & Gas facilities in the Gulf of Mexico. Ken will discuss how he and his team are using new technologies including:

- Modernization & Transformation: Digital, Agility, and Mindset
- M&T Initiatives on Mad Dog 2: AR, Digital Twin, ROV's, underwater Wifi, offshore IT etc.
- Using Dynamic Digital Twin
- Immersive Quality Inspection using Mix Reality
- Creating a Nextgen Collaboration Environment

Ken D. Nguyen, Digital Program Manager, Mad Dog 2, Upstream Global Projects Organization, BP

12:00 EST: Next Generation Operational Excellence with Digital Twins

- How digital twin technology overcomes the limitations of the industry standard simulation technology
- Real time condition-based monitoring of fixed and floating assets, that uses machine learning and AI to empower predictive maintenance
- Technology that is compatible with digital oilfield technology and the IIoT

1:30 EST: Meeting New Challenges – and Opportunities - to Emerge Stronger Than Ever

Oil and Gas companies in face a challenging environment today. Operational excellence is as important as ever, but the current market dynamics demand more. We must operate more efficiently than ever while maintaining high safety and environmental protection standards, new business models, service excellence, and top-tier data capabilities are needed to win.

This session will shine a light on what it's going to take to ensure that even in a challenging market, revenue growth leads to higher returns.

3:00 EST: Case Study: Driving Successful Digital Transformation at BP

Discover how new technologies for managing internal operations are at heart of BP's group strategy, and why they also see creative freedom and the human touchpoint as essential parts of the plan:

- Collaborating externally and internally to drive successful digital transformation at BP
- Combining emerging technologies with creativity is key to building a sustainable future through energy transition
- Innovate, don't create: Why we should be innovating around the core transactional system (as opposed to disrupting existing operations) to increase business value and drive ROI

Noorddin Taj, IT Strategy, Architecture & Digital Innovation, BP



OPERATIONAL EXCELLENCE OIL & GAS LIVE

May 19-21 2020

DRAFT AGENDA

Day Three: May 21, 2020

10:30 EST: Case Study: How Shell is Using Data Analytics to Streamline Internal Processes and Systems

As the Technology Lead for the PI Center of Excellence at Shell, Peter is passionate about new technologies, and what they can do for the business. Discover why he believes that good data management is the future for oil and gas companies everywhere to enable the transition through to a more sustainable future.

- The need for evolution: Why Shell's real time platform has had to change, and how CoE has helped maximise the value from existing PI Systems
- How our PI Center of Excellence is exploiting emerging technologies
- Challenges of the PI-Landscape today and how Shell are overcoming them
- How Data has helped and continues to shape our digital transformation activities moving forward

Peter van den Heuvel, Technology Lead, PI Center of Excellence, Shell

12:00 EST: Real Time Performance Optimization: Leveraging Artificial Intelligence in Oil and Gas

- Using Machine learning and AI for equipment condition monitoring and predictive analytics
- How can a production engineer use this technology to optimize his work day?
- How can AI really drive bottom line benefits for your company?
- What about the risks?

1:30 EST: Human Centred Operational Excellence: Creating a High Reliability Culture

- Getting better at getting better: What does a culture of operational discipline really mean?
- What is the role of culture in achieving operational excellence?
- What are the core values, behaviors, etc. necessary to achieve operational excellence?
- How can leaders create this culture within their organization?
- How decisions of "who does what where" affect your ability to achieve operational excellence
- A different way of looking at the business architectures that underpin how you organize the business, manage process, conduct operations, and even support IT
- How do you assess and measure culture?

3:00 EST: Building an Automation Center of Excellence (CoE)

- Building an Automation Center of Excellence (CoE)
- Embedding IA technologies deeply and effectively within your organization
- How using a CoE can better leverage your automation investments, moving from distributed organizations that individually own technologies to one vertical center that is capable of providing automation solutions across the enterprise
- Enabling a stronger emphasis on innovation

Biju Misra, Director, Operations - Enterprise Services, Enbridge