

Oil and Gas Automation & Digitalization Conference

AGENDA 2021

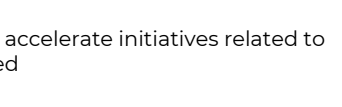
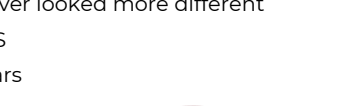
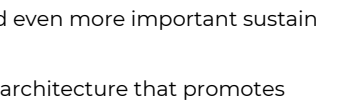
DAY 1

THURSDAY, 18 FEBRUARY 2021

EASTERN TIME (ET)

9:15	WELCOME SPEECH BRIEFING	
9:30	WELL CONSTRUCTION 4.0: UNIFIED COMMAND & OPERATION CYBER CENTERS (UCOC) - Intelligent Automation When Paired with Richer Well Construction 4.0 provides seamless workflow - Edge computing is found to be the key driver for Well Construction 4.0 acceleration - Holistic Artificial engineering intelligence coupled with MI are the underpinning options for the Cyber Physical System - The new open architecture stack provides the option to plug play by any user ROBELLO SAMUEL HALLIBURTON HALLIBURTON	
10:00	ACCELERATING CHANGE WITH A DYNAMIC DIGITAL TWINS - Maximising your production potential - Optimising your energy usage and reducing your carbon footprint - Collaborating to operate remotely – The digital worker - Changing your maintenance program from planned to predictive SHANE MCARDLE KONGSBERG DIGITAL KONGSBERG	
10:30	DIGITIZATION OF OIL AND GAS HINGES ON ZERO-TRUST REMOTE ACCESS - Oil and gas operational work has become more efficient as on-the-ground visits are replaced - To enable secure collaboration across partners and customers - With zero-trust, organizations can limit "east to west" network traffic NORMAN THORLAKSON XAGE SECURITY 	
11:00	OPTIMIZING MATURE WATERFLOODS COMBINING RESERVOIR PHYSICS AND ARTIFICIAL INTELLIGENCE - Why data alone is not enough and physics is required - Data Physics - an innovative solution combining data and physics - Case examples: increasing production by redistribution of injection; reducing injection and maintaining production. CARLOS CALAD TACHYUS TACHYUS	
11:30	EMERGING DIGITALIZATION TECHNOLOGIES AND ITS IMPACT AND PERFORMANCE - Digitize operation workflows through low code PaaS platform - Low cost, high impact and faster turnaround - Reduce unplanned downtime and optimize maintenance processes - Connect IoT, analytics and ML to field operation SHAJI JOHN PIONEER NATURAL RESOURCES PIONEER NATURAL RESOURCES	
12:00	NETWORKING HOUR	
13:00	DIGITALISING TO SAFELY ENHANCE PRODUCTIVITY, UPTIME AND REDUCE EMISSIONS - Describe the journey that Petrofac has been on adopting a range of digital solutions to transform its operations and engineering delivery - Provide examples of solutions being utilised covering automation, connected working and predictive analytics - Describe the value being generated and how this is transforming our approach STEVE JOHNSON PETROFAC Petrofac 	
13:30	HOW TO SUCCESSFUL SCALE AI - FROM IDEA TO IMPACT - Fundamental pillars for successful AI and Data Science in Oil and Gas - The importance of a strategy and vision - Technical requirements - How to deploy: AIOps and MLOps EVA-MARIE MULLER-STULER IBM IBM	
14:00	LEVERAGING DATA AND TECHNOLOGY BY INFUSING VIRTUAL DIGITAL ASSISTANCE - Applying data analysis for predictive maintenance - Utilising technology to organize data and empower decision makers - Gaining competitive advantage by lowering maintenance costs and minimizing downtime ARNOLD MARTIN AIR LIQUIDE 	
14:30	COLLABORATION AS FOUNDATION OF YOUR DIGITAL FUTURE – HOW SMART SAFETY SOLUTIONS HELP YOUR OPERATIONAL AND SAFETY EXCELLENCE? - Connected gas detection devices (wired and wireless) produce amounts of unused data today. This presentation will give an overview of the usage of gas detection data to safe lives, improve asset maintenance and streamline e.g. confined space procedures. - Furthermore these developments and data can be used to monitor and predict gas Rebecca Bedell DRAGER Dräger	
15:00	NETWORKING SESSION	
15:30	INVEST IN DIGITALIZATION - Startup ecosystem - Early stage investment - Corporate innovation in oil and gas WADE BITARAF PLUG AND PLAY PLUGANDPLAY	
16:00	DIGITAL SOLUTION - WHEN TO PARTNER, AND WHEN TO BRING IN-HOUSE? - Mapping the digital value chain for Oil & Gas Operators - Architecting fit-for-purpose projects with Vendors, while ensuring knowledge is built in-house - Developing in-house data science and machine learning capabilities ELIAS GHANTOUS ENERGYEXPERT Schlumberger	
16:30	ASSET MONITORING, MODELING AND ANALYTICS YIELD MAINTENANCE AND OPERATIONS OPTIMIZATION - Asset modeling technique to determine what data is important - Online monitoring tactics to collect needed data - Levels of analytics to determine health and performance indicators - Levels of analytics to predict future maintenance and operational need - System or organizational metrics and KPI PRESTON JOHNSON CB TECHNOLOGIES 	
17:00	END OF DAY 1	

DAY 2
FRIDAY, 19 FEBRUARY 2021
EASTERN TIME (ET)

9:30	TRANSFORMING BUSINESS OPERATIONS THROUGH REAL-TIME DATA MANAGEMENT - Safety-Critical Interlocks are widely used in our industry to manage risk to people and equipment - It's critical to test these systems to ensure they will work when needed :Leaving a huge expense - Digitization for Safety is now easy: the maintenance requirements are always up to date and the data from tests can come back from mobile devices instead of paper in filing cabinets. TONY DOWNES HONEYWELL Honeywell	
10:00	DATA LOSS PREVENTION (DLP) TO LEVERAGE SENSITIVE OUTBOUND EMAILS INVESTIGATIONS - (ANTILEAKS) "AntiLeaks" is a solution to extend Data Loss Prevention (DLP) system - Expedite investigation process and reduce the risk of data leakages. - DLP capabilities in a Decentralized Management of Security Operation for large enterprises RAFIQ KHURSHID SAUDI ARAMCO 	
10:30	- Cost effective Digitalization/Automation - Spectrum of Automation - Eco system of automation TIBOR KOMROCZKI MOL GROUP 	
11:00	NEXT GENERATION INDUSTRIAL PERFORMANCE POST COVID-19 - The impact of COVID-19 on company strategies – the need to accelerate initiatives related to Operational Excellence, most of which are technology-enabled - Common pitfalls in addressing these types of programs - Case Study – Real Example of a Successful Broad-Based Digital Program - Conclusion – Lessons Learned JOSÉ DE SÁ BAIN & COMPANY BAIN & COMPANY 	
11:30	USING INTEGRATED PROCESS AND ELECTRICAL DIGITAL TWINS TO REDUCE CAPITAL EXPENDITURES - Explore cost saving in design phase of the electrical network and power gen using power and process digital simulation - Explore expense saving in operation for electrical power using power and process digital simulation GEORGES EL MIR SCHNEIDER ELECTRIC 	
12:00	NETWORKING HOUR	
13:00	FAULT DETECTION FROM 3D SEISMIC DATA USING ARTIFICIAL INTELLIGENCE - Case studies to illustrate how 3D AI deep learning networks can be used for the identification of faults in 3D seismic data - Applications at a range of scales from basin wide screening in order to prospect new acreage and build regional structural understanding - Well scale for pre and post well analysis improved asset management LUCY PLANT GEOTERIC geoteric	
13:30	LARGE SCALE APPLICATION OF AI IN OIL AND GAS - Predictive maintenance on offshore platforms and refineries - How to successfully scale up an AI project PHILIPPE HERVE SPARK COGNITION 	
14:00	HACKING HEAVY PLANT AND OTHER ICS / OT CYBER ATTACKS - With crossovers in technology including IIoT & OT, ICS has never looked more different - See what can and does go wrong in cyber-attacks against ICS - Learn from the cyber mistakes made in IoT over the last 5 years JOE BURSSELL PEN TEST PARTNERS 	
14:30	DIGITAL TRANSFORMATION RESILIENCY BASED ON AN ANYTIME, ANYWHERE, ANYHOW SERVICES PLATFORM - How to cope with the current situation in order to survive and even more important sustain and project a feasible future. - Implementing a digital foundation based on an evolutionary architecture that promotes principles such as: information openness, everything as a service and the ubiquitous workplace (anytime, anyplace, anywhere). ALEXIS OCAMPO ECOPETROL 	
15:00	NETWORKING SESSION	
15:30	FAST TRACKING DIGITAL TWIN BENEFITS - Building the Digital Twin to service the business needs - Structuring benefit realisation into the Digital Twin change initiative - Case study and demonstration of a Digital Twin MIKE GILL PREMIER OIL PLC 	
16:00	CONNECTING THE DOTS: DIGITALIZATION AND ENERGY TRANSITION - Role of digitalization for energy transition - Relation between Sustainability and Digitalization - Case study on Carbon Capture and utilization Storage (CCUS) SUBRATA BHOWMIK MCDERMOTT 	
16:30	COVID19 AND OPERATIONS, FROM REACTION TO RESILIENCE - Leveraging digital asset strategies for a sustainable future - Operational disruption due to the pandemic has forced E&P companies to fundamentally reshape operational strategy - Digitization initiatives enabling the future of remote work, resiliency in the face of unplanned events, and sustainable operations in an integrated, secure fashion ELIAS PANASUIK SCHNEIDER ELECTRIC 	
17:00	CLOSING REMARKS	