

# ARTIFICIAL LIFT SUMMIT 2022

Explore Innovative Solutions and Latest Technologies That Support Artificial Lift.

## AGENDA 2022

### Day 1

Monday, 10 October 2022

US Eastern Time Zone (EST)

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#### 10:15 Welcome Speech

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#### 10:30 Rigless deployed ESP - Comparisson of current available technologies

- Rigless ESP: benefits, available technologies, completion characteristics and its limitations
- Deployment methods, OPEX & CAPEX
- Comparisson chart

Martin Querol | Noble Alfil Management Consulting



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#### 11:00 Revised ESP trip setting strategies along with Realtime monitoring saves unnecessary ESP trips and failures

- As the number of Artificial lift wells increase within a field, there is a continuous need of distant Realtime monitoring for Artificial lift wells, especially with a lack of sufficient manpower.
- In this presentation, we will get an overview of the impact of Realtime ESP monitoring saving a lot of trips, failures Abd deferment.
- In addition to monitoring, a robust trip settings strategy should be in place to shut down the system in case of out of range parameters that could harm the equipment with a very costly maintenance.

Abdullah Hegazy | Bapetco



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#### 11:30 Next Generation of Enterprise Asset Management

- The history of Enterprise Asset Management and its application in industry
- Discuss the gap that has been created by taking an ERP focused approach towards EAM
- Learn how Hexagon's Smart Digital Reality bridges this gap by combining design & engineering tools with core EAM capabilities

Kevin Price | Hexagon

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#### 12:00 Networking Break

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#### 12:30 Optimizing Artificial Lift with Surface Multiphase Boosting

- Technology background and advantages of multiphase boosting systems
- Benefits from the combination of artificial lift with surface multiphase boosting
- Applications of multiphase boosting in oil and gas fields

Luis Martinez | Leistriz Advanced Technology Corp.



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#### 13:00 ESP Analysis and Optimization by Operational Trends

- Operators are exercising ESP Operating data trend analysis through its networks system. It enables real time monitoring, control, and design of ESP's thereby optimizing, Safety and environment protection, Operating Cost, Production Rates, Capital Cost, Preventable Failures, Personal Effectiveness and Minimizes Losses.
- Data trend plots are used to show Well level and System level variable vs. Time.
- The prime parameters deducted for Well analysis are Gradient Traverse plots thereby monitoring well & inflow performance, which changes with the time.
- The diagnosis based on all such concepts enables right / real time decision to sustain ESP at optimum range, leading to enhancing ESP run life. In a typical application, the continued practice of this concept has resulted in +2000 m3/d gain in production, enhancing ESP Run life by 6% and saving \$ 0.5 million, in one year, in one of its concession areas.

Iqbal Sipra | Petro Gas LLP



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#### 14:00 End of Day 1

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## Day 2

Tuesday, 11 October 2022

US Eastern Time Zone (EST)

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### 10:00 Artificial Intelligence for Engineering Application, including Artificial Lift

- AI-based (Top-Down) Reservoir Simulation and Modeling is developed purely based on facts and reality using actual field measurements
- Avoiding any assumptions, interpretations, and simplifications, AI-based (Top-Down) Reservoir Simulation and Modeling provides Production Optimization even through Artificial Lift. Actual case studies of Gas-Lift optimization at multiple projects throughout the world will be presented.
- Numerical Reservoir Simulation is a "Bottom-Up" Reservoir Modeling, while AI-based Reservoir Simulation is a "Top-Down" Reservoir Modeling. AI-based Reservoir Simulation is NOT a "Hybrid Model" through incorporation of the realistic, engineering application of Artificial Intelligence & Machine Learning using ONLY field measurements.
- AI-based (Top-Down) Reservoir Simulation and Modeling uses "Explainable AI (XAI)" and generates AI-based Geological Model (Geo-Analytics), Fully Automated History Matching, and Blind Validation Forecasting.

Shahab D. Mohaghegh | Intelligent Solutions, Inc. (ISI)



شرکت راهبرد های هوشمند  
INTELLIGENT SOLUTIONS INC.

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### 10:30 System Performance Improvement in ALS wells by adoption of innovative methodologies

- Performance evaluation of boronized tubing & HDPE lined tubing in PCP wells.
- Well specific Artificial Lift selection methodology. Change from field specific Lift Selection strategy.

Joy Singhal | Cairn Oil and Gas



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### 11:00 Best practices and case studies of artificial lift methods and technology alignment

- Equipment yard inspection and Pre-jobs with the installation crew
- Maintaining the integrity of the BEC equipment during well pressure tests, and avoiding sticking of the string, through a preventive run of a dummy string
- Avoiding damage to the power cables, by implementing additional controls to the drag of the protectors
- Optimizing speed, based on an installation speed matrix

Jonathan Segura | Hokchi energy



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### 11:30 ESP predictive maintenance

- Pump data collection, validation and visualization.
- Using machine learning algorithm (DBScan) to detect anomalies in pump work due to free gas followed by scale deposition.
- Implementing expert rules in order to stabilize pump work, decrease the amount of anomalies and increase pump mean time between failures.

Filip Matovic | NIS a.d. Novi Sad



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### 12:00 Networking Break

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### 12:30 Safety Leadership Through Emotional Intelligence

- Emotional Intelligence is a Fundamental Soft Skill in Leading in Safety
- Applications of Emotional Intelligence in the Safety Space (e.g. group and individual)
- Proven Positive Outcomes of Emotional Intelligence in the Safety Space

Britt Howard | Worley



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### 13:00 Massification of Artificial Lifting Methods in Deep Compositional Reservoirs

- In Venezuela, we have >16,000 deep reservoirs, subjected to gas injection, the pressure fell below 5,200 psi, so it was necessary to install artificial lift methods.
- The evaluation determined that the most appropriate extraction methods are Gas lift and ESP. With this implementation, it was possible to leverage production during 2016 with 55.3 MBNPD.
- The new challenge is to produce wells with moderate RGL, it is proposed to complete the 1st ESP well accompanied by a mandrel at 9000 feet.

Jhonn Borges | AlmendrasOil



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### 13:30 Coiled Tubing in Artificial Lift Systems

- CTLift advantages
- CTLift applications

Humberto Leniek | CTLift Systems LLC



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### 13:30 End of Day 2