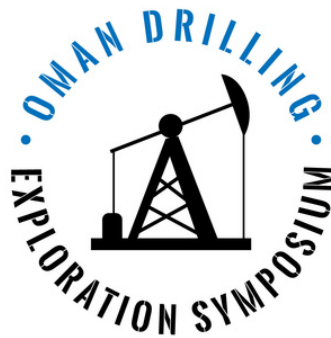


# ODES 2021

## Post Show Report



## Oman Drilling & Exploration Symposium (ODES) 2021

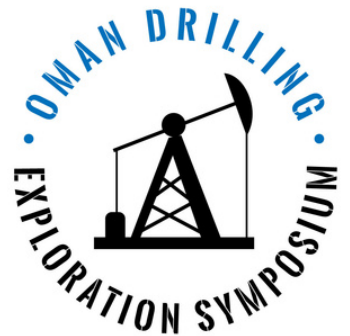
International Conference & Exhibition (Virtual)

Theme: Rebooting Digital technology - Now Next & Beyond  
23 - 24 March 2021, Muscat, OMAN

**245 Attendees** | **33 Speakers** | **14 Exhibitors**



## ODES 2021



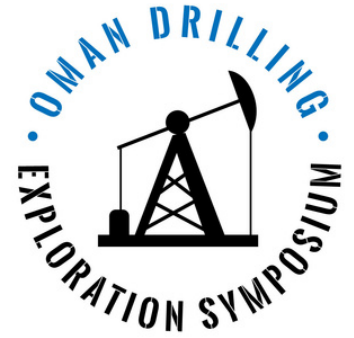
Oman Drilling & Exploration Symposium is poised to be the leading event in offshore & onshore oil & gas sectors in Oman. The current edition of the symposium will focus on Digital Technology and Applications in Drilling and Exploration stream, which is the current trend worldwide.

Digital application has immense scope for uplifting the oil & gas industry with its wide range of potential applications. Adoption of the latest technologies is the need of the hour for meeting the ongoing challenges. O&G industry is turning to innovation and technology in a bid to boost efficiency and increase profits.

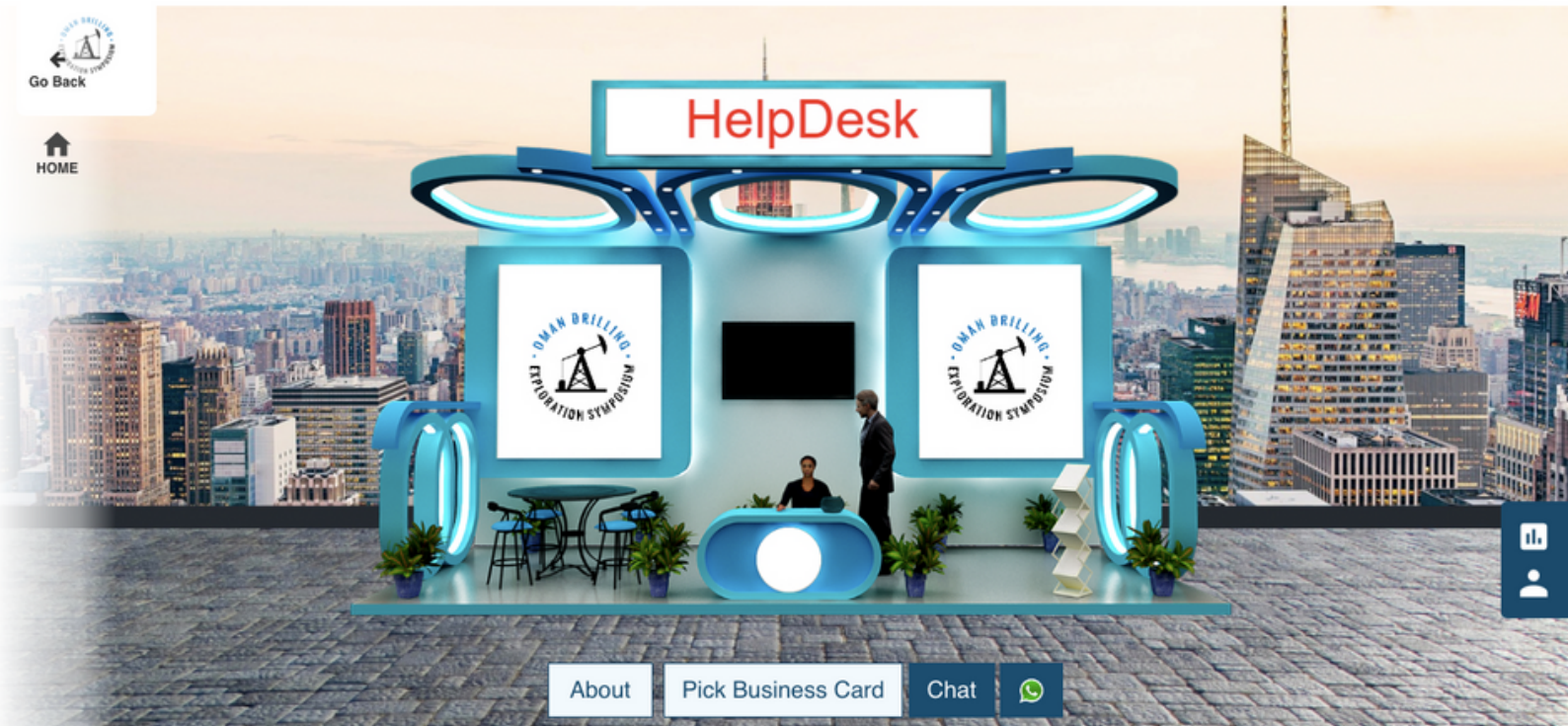
The symposium brought together leading professionals from local and global industry to share experience & expertise, lessons learned and the probable solutions to the challenges faced by the Oman Oil & gas industry. The one on one meeting format gave a real opportunity to have meaningful discussions with leading solution providers.

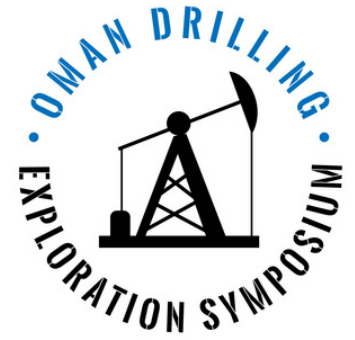
## SYMPOSIUM FOCUS

- Digital Advancements in Drilling & Completions of oil and gas wells
- Use of digital technology to acquire, interpret & enhance exploration data processing
- Delivering faster & productive wells - Use of data analytics
- Reduce Capex by digitalising oilfield development plan
- Applying digital solution to optimize costs & increase production
- Data Management & structuring - Use of Machine Learning
- Being digital - Reducing risk & increase safety
- Inspection Maintenance & Repair - Effectiveness of digitalization



Oman Drilling & Exploration Symposium (ODES)  
Innovative Concepts & Birba Energy Services LLC

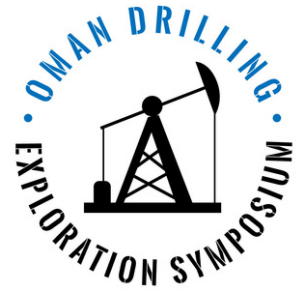




## PARTICIPATING COMAPNIES

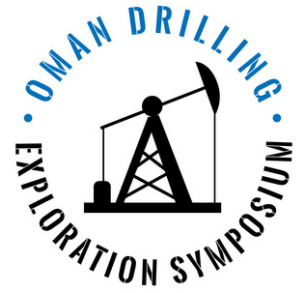
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- Abraj Energy Services LLC
- ABS
- ADOMS Global
- ADVANCED OILFIELD TECHNOLOGY COMPANY LLC
- Al Khalij Heavy Equipment & Engineering LLC
- ALKIYUMIOILFIELD AND GAS EQUIPMENT AND INDUSTRIAL APPLIANCES
- American Bureau Of Shipping ABS
- Amet university
- Ascension Technology LLC
- AT GROUP
- ATE LLC
- AWD
- Axxess Group
- Axon Energy Services, Inc.
- Badr Enhanced Oil Recovery LLC
- Barron Enterprise
- Bentec GmbH Drilling & Oilfield Systems
- Cairn Oil and Gas, Vedanta Limited
- CCED
- Conceptia Software Technologies Pvt Ltd
- Consult 2050 B.V.
- DALEEL PETROLEUM
- Datavedik
- Dhaanish Ahmed College of Engineering
- directional drilling service associated limitada
- DMS Global
- DOT Group
- Dow Oil, Gas & Mining Group
- Dunes Petroleum LLC
- EIC
- Embassy of Canada
- Emerson
- Energy & Marine
- ENHEROES GLOBAL ENERGY
- Exclusivity Diamond Trading
- Experience for Unique Projects
- Falcon Oilfield Services
- Frontier Safety Supply Centre LLC
- Geomatex Integrated Solutions
- Gulf Center Industrial Equipment L.L.C
- Halliburton
- Hema Energy
- Hema Oil & Gas LLC
- Ibra College of Technology
- IIT roorkee
- Infinity oil services
- Infosys
- Innovation Norway
- Interwell
- Invenire Energy Ltd



## PARTICIPATING COMPANIES

- ITM University Gwalior
- IZZ Oman Engineering LLC
- Karachi educational and welfare society for deaf
- Kuwait oil Company
- Lonestar Shipping
- Magnum Enterprises
- MAKTOOM TRADING & CONTRACTING CO LLC
- Maxwell Oil Tools
- MUSCAT PHARMACY AND STORES
- NAJED AL AHLIYA
- NATIONAL BRIGHT OILFIELD SERVICES LLC
- National Trading & Projects Co.LLC
- Nizwa University
- OCCIDENTAL
- Occidental of Oman Inc.
- ocean technical and mechanical services
- Oges India
- Oil and Natural Gas Corporation Limited (ONGC)
- Oman Flanges Production Factory
- Oman Sea Petroservices
- OOGI
- OQ8
- OXY
- Petroleum Development Oman (PDO)
- PETRONAS
- PETROSTAR CORPORATION LLC
- PK International LLC
- Qmagico
- Reliance Industries Limited (RIL)
- Rezlytix Technologies Pvt. Ltd.
- Rock International Engineering Consultancy
- Rock-Oil Consulting Group and Dicelytics Limited
- Rystad Energy
- Saih Al Nihaidah Trading & Cont
- Schenker Khimji,Äôs LLC
- Schlumberger
- Score Diagnostics Limited
- Seven Seas Petroleum
- SHARJAH NATIONAL OIL CORPORATION
- Siemens Energy
- Sohar Aluminium
- SOKOL
- STS
- TeQKnow Projects
- Tridiagonal Solutions
- University of Kansas
- University of Petroleum and Energy Studies
- UPES
- Vanguard Engineering & Oilfield Services
- VEC Energy and Resources
- Vision Advanced Petroleum solutions llc
- Zajel Communications LLC
- Zawawi Business Development Co LLC



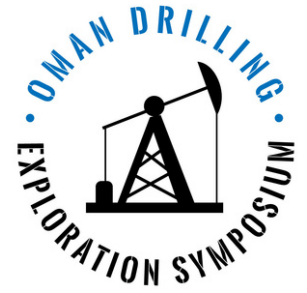
## SESSIONS - ODES 2021



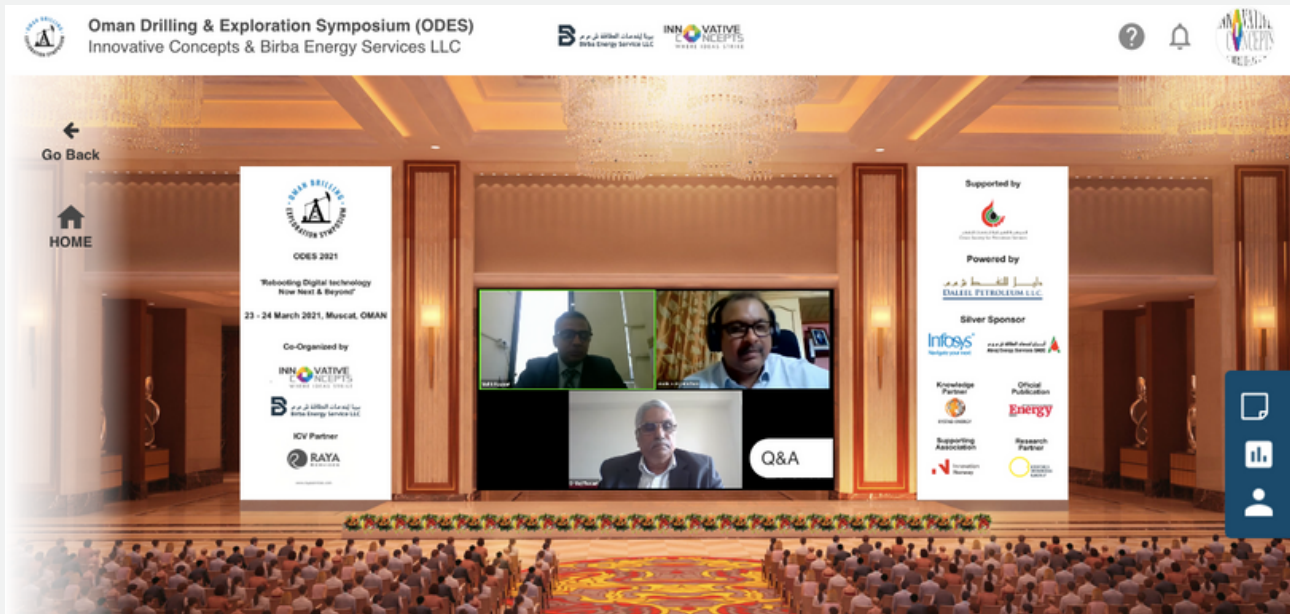
### Inaugural Session - Applying digital solution to optimize costs & increase production

- Indradyumna Datta, Chief Digital Officer (Dy.), Cairn Oil and Gas, Vedanta Limited
- Nasser Mahrooqi UPM, Subsurface Technical Data Manager (CFDH), Petroleum Development Oman (PDO)
- Garud Sridhar, Technical Manager, Production Digital Solutions, Schlumberger

**Moderator:** Parul Chopra, Vice President, Head of Research, India, Rystad Energy

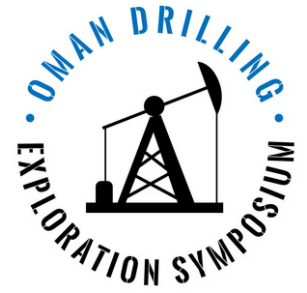


## SESSIONS - ODES 2021

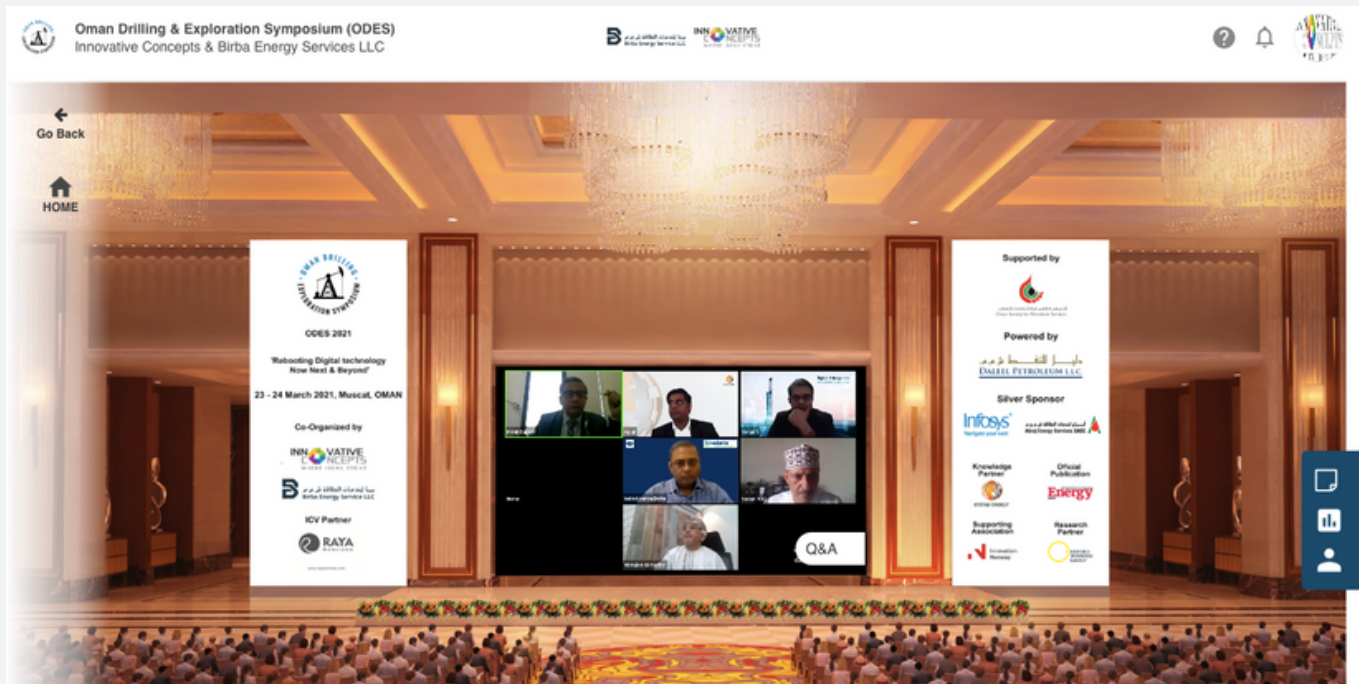


### Special Session: Data Science & Energy Transition

- Digital innovation enabling energy transition - Steve Freeman, Director of Artificial Intelligence and ML, Schlumberger
- Paradigm shift in leveraging data, data science and talent - Navigating successfully - Dr. Satyam Priyadarshy, Technology Fellow and Chief Data Scientist and Managing Director-India Center, Halliburton
- Energy Transition: future is secure - Dr. Arunkumar Ranganathan, AVP , Head DCG- Energy Utilities & Services, Infosys
- Role of digital platform in the future of oil & gas industry - Balasubramanian Krishnamoorthy, VP, IT & Petroleum Data Management, E&P, RIL



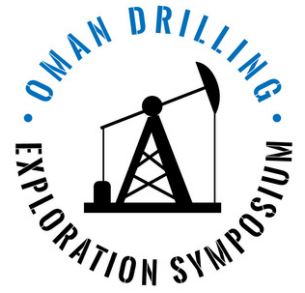
## SESSIONS - ODES 2021



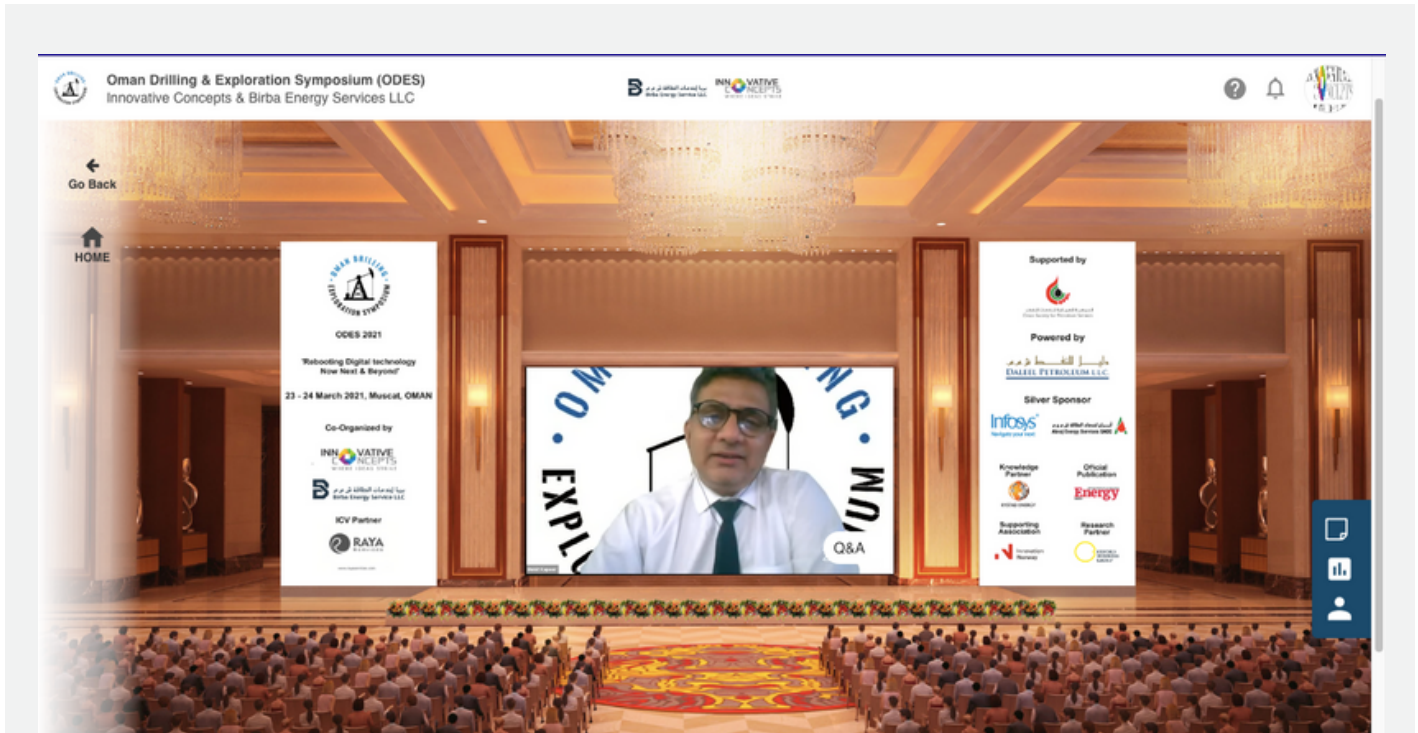
### Morning Session: DAY 1

- Middle East regional upstream trends - Aditya Saraswat, Senior Analyst, Rystad Energy
- Value of Information of Surveillance Data Acquisition Using Predictive Analytics - Dr. Raj Tewari, Chief Scientist, Group Research & Technology, Petronas
- Improving Efficiency Reliability and Safety in E&P with Analytics at the Edge - Debashis Gupta, Business Manager of Agora for MENA, Asia Pacific and Russia and CIS, Schlumberger
- Advances in Condition-Based Maintenance Systems - Chris Greenwood, Regional Director, Business Development, Middle East & Africa, ABS





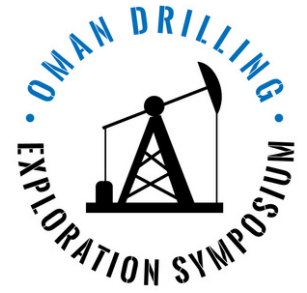
## SESSIONS - ODES 2021



### Afternoon Session: DAY 1

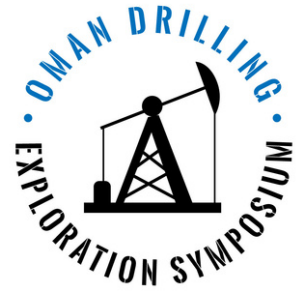
- Deep Learning for Reducing the Resolution Gap from Seismic to Well Data - Dip Nanda, Founder & MD, Rezlytix
- Advance Well integrity solution - Issa Shahi Shavoun, Technical Manager, Abraj Energy Services
- Assessing Organizational readiness for Digital Transformation with Digital Maturity tool - Swarup Gokhale, Sales Director, Digital Transformation , MEA, Emerson & Harith Al-Suleimany, Director-Business Development, Seven Seas Petroleum
- Digitalization in Abraj Mechanized Drilling Rigs (1000HP) - Ahmed Al Salmi, Asset Manager, Abraj Energy Services

## SESSIONS - ODES 2021



## Evening Session: DAY 1

- Automated Gas-lift Optimization - Dr Kashif Rashid, Scientific Advisor, Schlumberger
- Application of DLSTM-RNN based Supervised Machine Learning model to Forecast and Optimize the Performance of the Water Flood and WAG - Dr. Pramod D. Patil, Rock-Oil Consulting Group and Dicelytics Limited
- ESP operational optimization enabled through Edge intelligence - Agustin Gambaretto, Production Engineer, Digital Operations Solutions, Schlumberger
- Smart Well Monitoring and Optimization powered by Machine Learning - Sunil Garg, CEO, DATAVEDIK & Samir Jain, Director of Consulting, Datavedik



## SESSIONS - ODES 2021

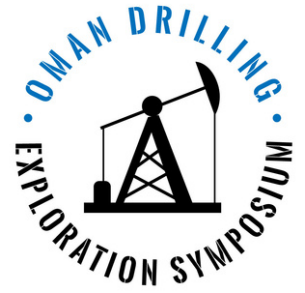
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### The role of digitalization in the energy industry: DAY 2

- Adnan Al Lawati, IT Manager, Occidental of Oman Inc.
- Said Al Mahrouqi, Well Delivery Manager, Petroleum Development Oman (PDO)
- Khalid Bin Hadi, Managing Director, Siemens Energy

**Moderator** – Mohit Kapoor, Founder & Director, Innovative Concepts & Co-Organizer, ODES 2021



## SESSIONS - ODES 2021

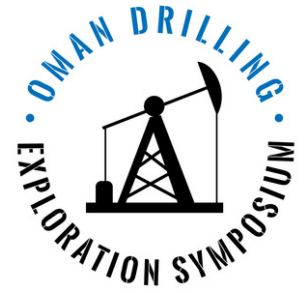
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### Morning Session: DAY 2

- Challenges & Opportunities of Shaping Digital Energy as a Force for good in Oman - Shubhabrata Samantaray, Founder & CEO, Enheroes Global Energy
- Operational Certainty with Integrated technologies - Aarti Dange, Sales Manager, Digital Transformation, Upstream Solutions, MEA, Emerson & Nasser Ahmed Al Rasbi, Sales Engineer - RAS, Reliability, & Digital Transformation, Seven Seas Petroleum
- Digital Twins and Reality Modelling importance for Digitisation projects - Ezzat Sabry, Managing Director, Geomatex
- Augmenting Tight Rock Stimulation with Data Analytical Implementation - Arya Christiawan, Senior Fracturing Technical Engineer, Abraj Energy Services

### Afternoon Session: DAY 2

- Asset Performance Management (Apm4o&g) for Oil and Gas: Maximizing ROI by Reducing Time to Value Generation - Marko Mijatovic, Business Development Manager, Siemens Energy
- Use of data analysis and deep learning - increasing revenues and reducing costs - Thomas Meijssen, CEO, Consult 2050 B.V.
- Leveraging Digitalization & Artificial Intelligence in well construction process from planning to operation - Ahmad Hussein, Digital Drilling Solutions Manager, UAE, Oman, Iraq and Pakistan, Digital & Integration Division (D&I), Schlumberger Middle East S.A.
- Wettability Alteration Technology for EOR in Carbonates - Dr. Neeraj Rohilla, Enhanced Oil Recovery (EOR) Technologies, DOW



## SESSIONS - ODES 2021

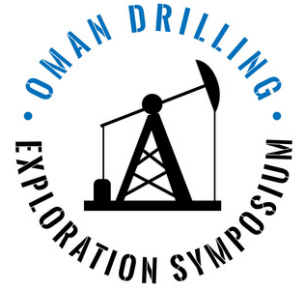


### Evening Session: DAY 2

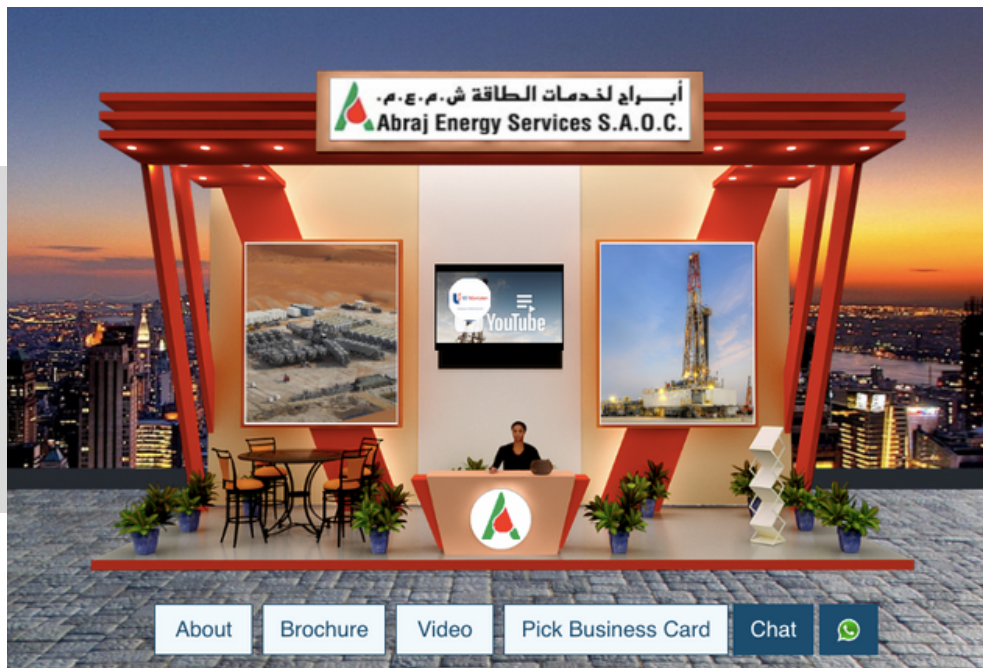
- Data + Physics: Optimizing production and finding optimum infill locations using machine learning combined with traditional reservoir physics - Mahmoud Samir, Business Development Manager, Tachyus
- Digitalization of Business Processes in Oil and Gas - Saurabh Srivastav, CEO, Oges India
- Improving health of sick wells through Pump on Demand driving OPEX - Miguel Hernandez, Production Analytics Engineer - Digital Operation Solutions, Schlumberger

Close of the conference.

# LIST OF EXHIBITORS



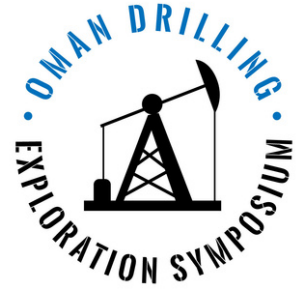
## Abraj Energy Services



## Advanced Oilfield Technology Co LLC



# LIST OF EXHIBITORS



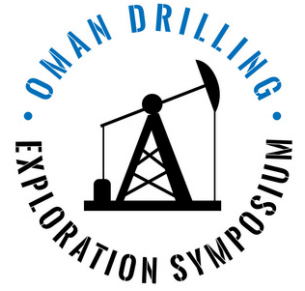
## BADR OIL RECOVERY



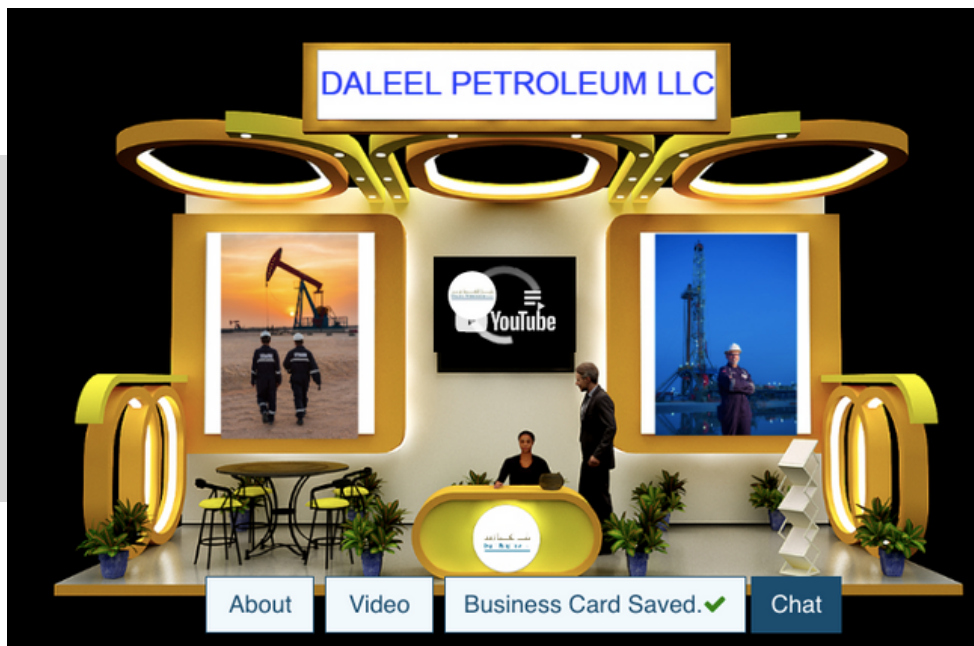
## CC Energy Development (CCED)



# LIST OF EXHIBITORS



## Daleel Petroleum

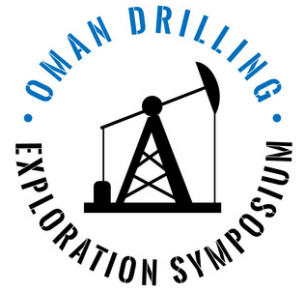


## EDT (Maxwell Oil tools)





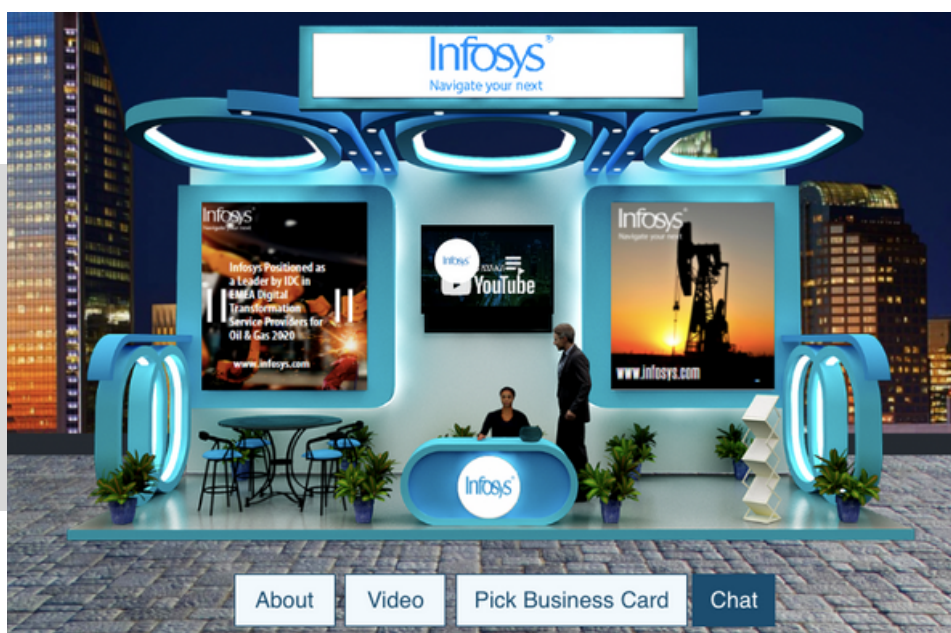
# LIST OF EXHIBITORS



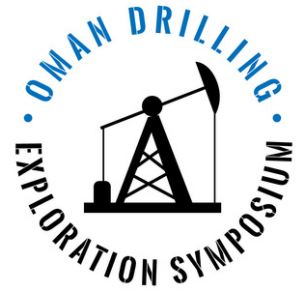
## Hema Energy



## Infosys



# LIST OF EXHIBITORS



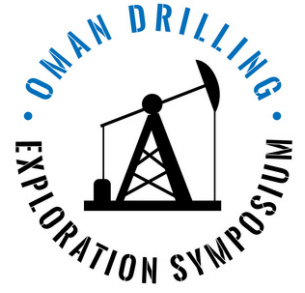
## Maktoom Trading & Contracting Co LLC



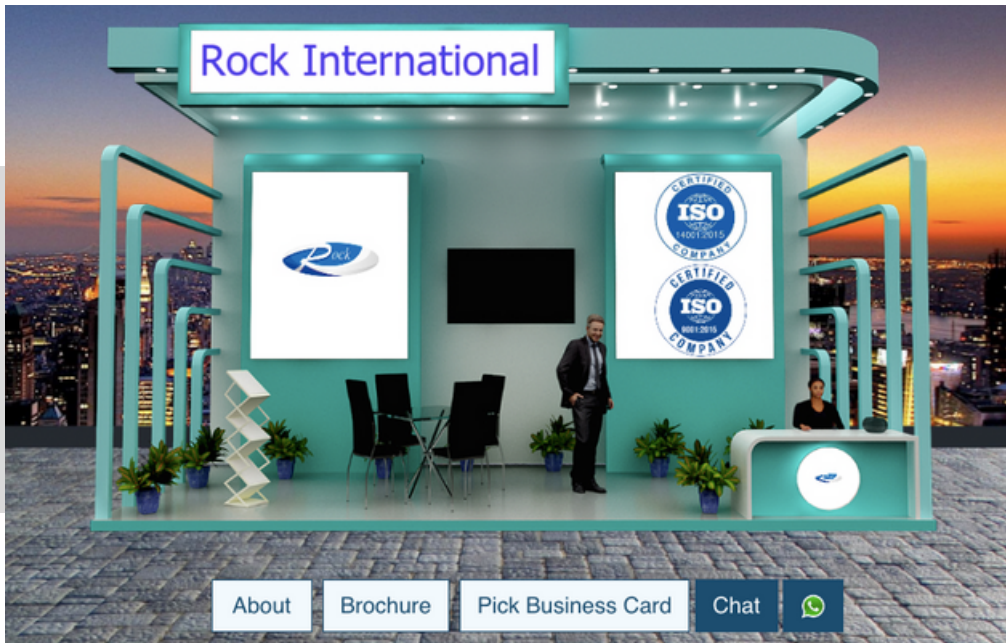
## Oman Flanges Production Factory L.L.C



# LIST OF EXHIBITORS



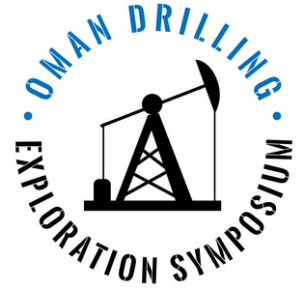
## Rock International Engineering LLC



## SANTCO



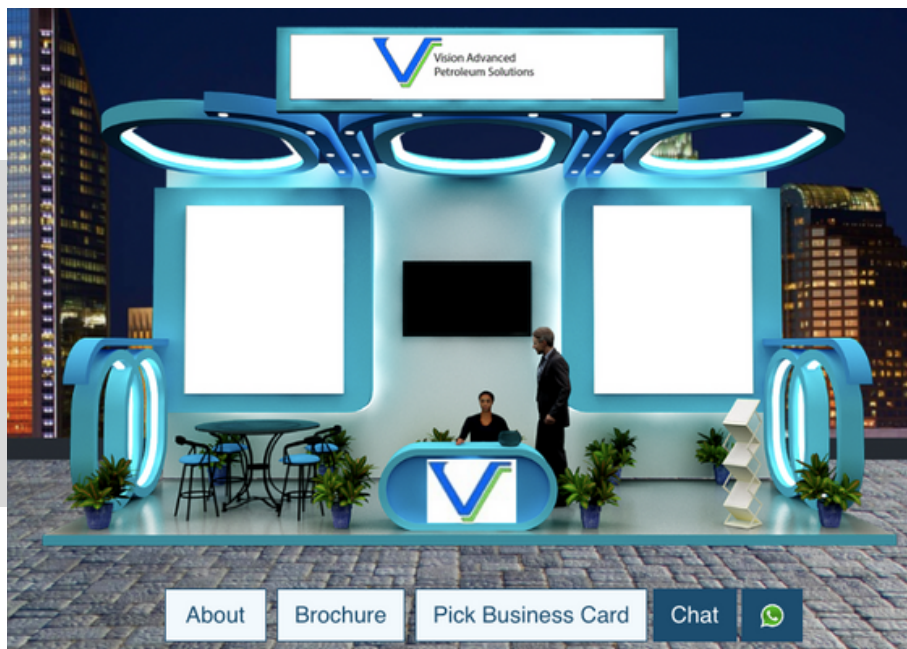
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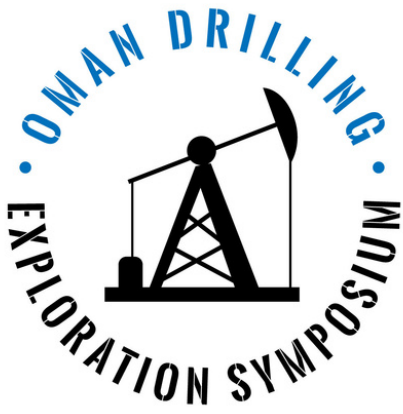


## Sokol Drilling Motors & Tools



## Vision Advanced Petroleum Solutions LLC





# PHOTO GALLERY

ESP Operational Optimization Enabled Through Edge Intelligence

Agustin Gambaretto  
March 23<sup>rd</sup>, 2021  
OMAN DRILLING & EXPLORATION SYMPOSIUM

Schlumberger

Agustin Gamb...

Mohit Kapoor

Dr Raj Tewari

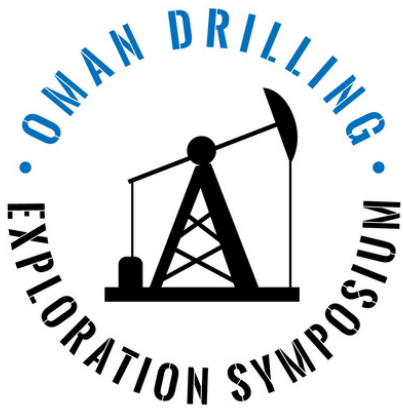
Digital Maturity Tool

Assessing Organizational Readiness for Digital Transformation

Swarup Gokhale – Emerson Automation Solutions, Dubai  
Harith Al Suleimany – Seven Seas Petroleum LLC Oman.

March 23, 2021

Swarup Gokh...



# PHOTO GALLERY

أبراج لخدمات الطاقة ش.م.ع.م.  
Abraj Energy Services S.A.O.C.

Digitalization in Abraj Mechanized Drilling Rigs (1000HP)

By Ahmed Al Salmi  
Asset Manager  
Abraj Energy Services S.A.O.C

Ahmed Al Sal...

Advances in Condition-Based Maintenance Systems

Chris Greenwood - Regional Director of Business Development (MEA)  
March 2021

**ABS**

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Chris Greenw...

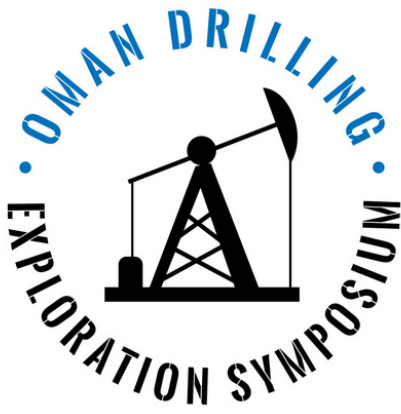
Deep Learning for Reducing the Resolution Gap from Seismic to Well Data

**Rezlytix**  
Enabling Reservoir Intelligence

**PITCHING DECK** | **MAR 2021**

Dip Nanda

Shell E&E



# PHOTO GALLERY

0:04:38 | 7:28 AM

## Long Short-Term Memory (LSTM)

- **Hochreiter & Schmidhuber (1997)** Solved the problem of getting an RNN to remember things for a long time (like 100's of time steps)
- They designed a memory cell using logistic and linear units with multiplicative interactions
- Information gets into the cell whenever its "write" gate is on
- The information stays in the cell so long as its "keep" gate is on
- Information can be read from the cell by tuning on its "read" gate

Application of DLSTM-RNN based Supervised Machine Learning model to Forecast and Optimize the Performance of the Water Flood

Rock-Oil Cons. | No Notes.

## Data-driven Field-wide Continuous Gas-lift Optimization under Operational Constraints

Kashif Rashid, Sandeep Verma & Rahel Yusuf\*

Schlumberger-Doll Research, Cambridge, MA., USA.  
\*Schlumberger Norway Technology Center, Asker, Norway.

23<sup>rd</sup> March 2021

Oman Drilling and Exploration Symposium – March 23-24<sup>th</sup>

drillVediK

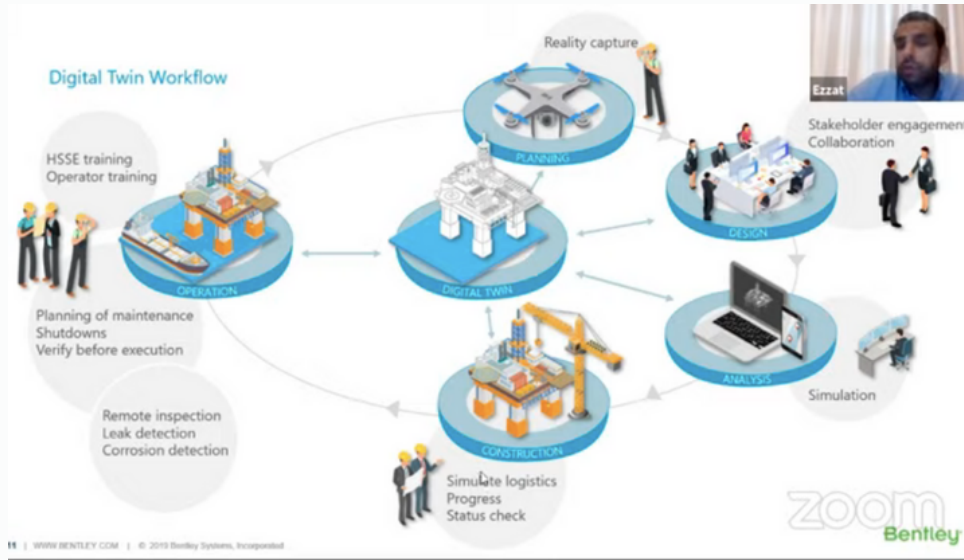
## Smart Well Monitoring and Optimization

Design → Plan → Operations → Performance Analytics

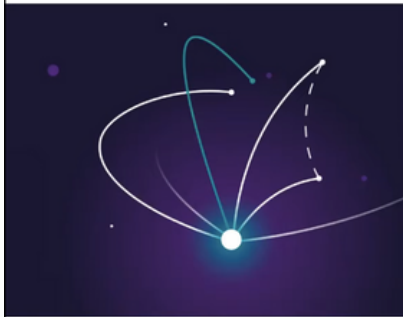
Confidential © 2021 DATAVEDIK

zoom  
dataVediK  
data science decoded

# PHOTO GALLERY



## What is APM?



APM is a **decision making tool** which takes data from **all kind of data sources** in an industrial plant.

It **automates the decision** when to perform the right maintenance activity triggering **work orders** in the CMMS

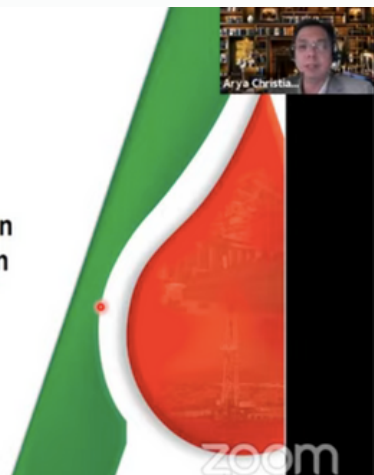
It shifts the entire maintenance process from fire fighting to **predictive maintenance** - Stay on top of the failure!

أبراج لخدمات الطاقة ش.م.ع.م.  
Abraj Energy Services S.A.O.C.

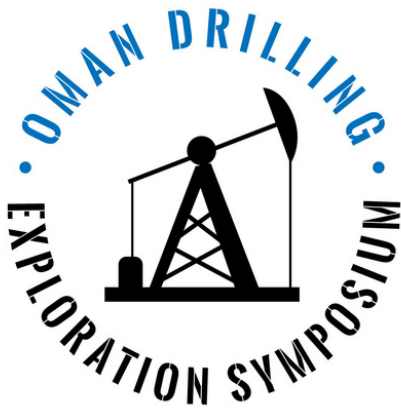
## Augmenting Tight Rock Stimulation with Data Analytics Implementation

**Arya B Christiawan**  
Fracturing Completion Specialist  
Muscat, March 2021

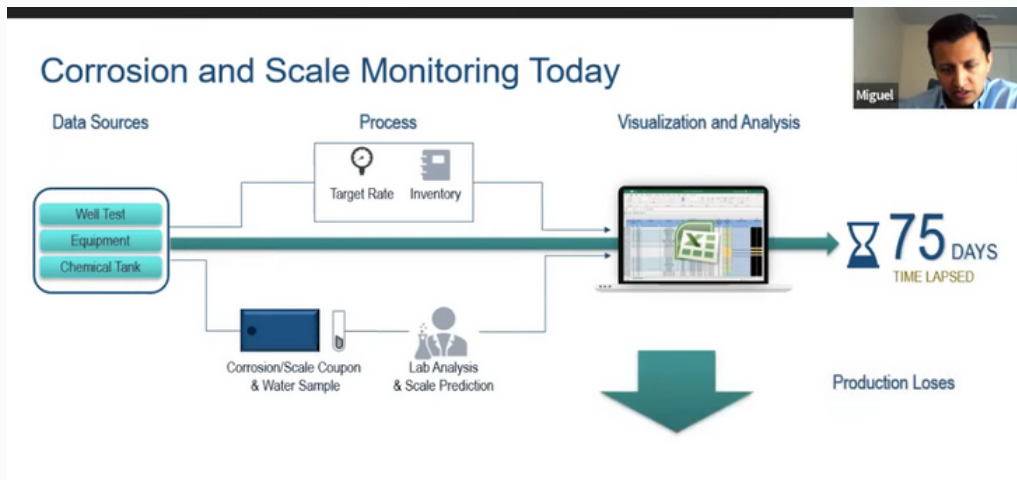
OMAN DRILLING & EXPLORATION SYMPOSIUM – 23 & 24 March 2021







# PHOTO GALLERY



## Wettability Alteration Technology for EOR in Carbonates

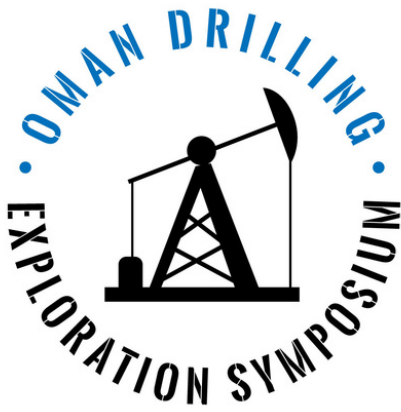
**Neeraj Rohilla<sup>1</sup>,**

Amit Katiyar<sup>1</sup>, Peter Rozowski<sup>1</sup>, Adriano Gentilucci<sup>1</sup>, Mayur Pal<sup>2</sup>,  
Prabhat Saxena<sup>2</sup>

1. The Dow Chemical Company
2. North Oil Company

Rohilla et al., "Field Trial for Wettability Alteration Using Surfactants: Formulation Development In Laboratory to the Implementation and Production Monitoring in an Offshore Reservoir. Paper presented at the SPE Improved Oil Recovery Conference, Virtual, August 2020. <https://doi.org/10.2118/200358-MS>





# PHOTO GALLERY




## DIGITAL ENERGY AS A FORCE FOR GOOD

An innovative Collective Impact Approach towards Corporate Sustainability to Champion Global Goals 2030

By  
Shubhabrata Samantaray  
Founder & CEO




**ENHEROES**  
GLOBAL ENERGY



## Digitalization of Business Processes in Oil and Gas

Oman Drilling & Exploration Symposium (ODES)

Saurabh Srivastav  
B.Tech (ITC) | MMS (IMA)  
CEO, Oges Solutions



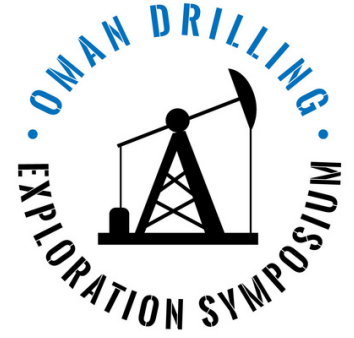
Contact: saurabh@oges.info | +91 - 9447 636 912




## THOMAS MEIJSEN

- CEO of Consult 2050 B.V. connecting organizations with consultants and industry experts worldwide
- Graduated in Physics and Business Administration
- Worked for Shell International for 32 years on oil & gas field development
- Country Chair for Shell in Jordan
- Consultant at the Ministry of Oil & Gas in Oman, advising on regulations
- Consultant for the oil & gas industry on business strategy, projects and deep learning

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