# AI in Oil & Gas
## Conference and Exhibition 2026

May 14-15, 2026 | 2712 Southwest Freeway | Houston, TX, USA 77098

Driving Operational Intelligence and Performance with AI in Oil & Gas

3 ways to register

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## OFFICIAL AGENDA

Agenda as of 14 May, 2026 and subject to change.
Event will take place in Houston, TX, USA (GMT-5) time zone.

# Day 1
Thursday, May 14, 2026

● Sponsored Sessions ● Booked Sessions ● Available Sessions

**07:00**

### Registration & Refreshment Networking

**09:00**

### Meeting AI-Driven Energy Demand

- AI growth is rapidly increasing energy demand nationally and globally
- AI-based data centers require reliable, and clean base-load energy sources
- Solutions lie on the form of new nuclear using scalable Small Modular Reactors (SMRs)

**Chuck Goodnight**
Vice President, **NuScale Power,LLC**

**09:30**

### Reducing Emissions Through Digital Twins, Cloud Computing, and AI in Oil & Gas Operations

- Real time simulation at scale to improve energy efficiency, reduce flaring and unplanned shutdowns, and stabilize operations
- AI driven scenario planning to compare different options for reducing emissions, such as changing operating conditions, maintenance timing, or electrification before making real world changes
- Geospatial dashboards to give leaders a clear, map based view of emissions, asset performance, and risks across the entire enterprise

**Jagadish Maddiboyina**
North America Oil and Gas Consulting Lead, **Cognizant Technology Solutions**

**10:00**

### Human AI Collaboration and Cognitive Interface

- The daily struggles in the life of a foreman
- Taking the holistic efficiency & impact-based approach
- Shortest route for doers, data and decision makers with a bi-directional Control Tower & the Digital Foreman
- Introducing the PACE Project Guardian – 24x7 assistant to the human for data, workflows and predictions

**Yogesh C Srivastava**
CEO,**TEKNOBUILT**

**10:30**

### Oil and Gas Cybersecurity: A National Security Imperative

- Logistics is a key National Security asset
- Cybersecurity for Critical Infrastructure
- Zero Trust models for OT/IoT

**John P. Sahlin, Ph.D.**
Vice President, Cyber Pursuit, Defense Division,**GDIT**

**11:00**

### Daily Work Planning as a Lens into Operational Risk

- See how AI turns daily planning conversations into a powerful new lens for risk intelligence and field leadership, revealing the hidden signals most indicative of safety risk, operational disruption and rework, and high financial impact.
- Learn how AI-enabled benchmarking and real-time insights give leaders clear visibility into field work planning, uncovering where to focus attention and coaching for earlier intervention, target leadership support, and achieve performance gains.
- Discover new approaches to deliver insights to field crews using AI and natural language dialogue rather than static reports, empowering crews to make better decisions, adapt effectively, and take action before small issues escalate.

**Barry Nelson**
Founder & CEO, **FactorLab**

**11:30**

### Beyond Anomaly Detection: From Failure Alarms to Predictive Reliability in O&G

- Despite major investments in monitoring and anomaly detection, unplanned failures remain a persistent challenge in Oil & Gas because traditional approaches are reactive.
- This talk explores the critical difference between detection and prediction, showing why true failure prevention requires anticipating issues before they occur. It outlines why prediction is fundamentally harder—requiring identification of time-dependent precursor patterns—and presents a practical path from detection to prediction using modern AI techniques and domain knowledge.
- Attendees will learn why detection alone is insufficient and how to bridge the gap between AI innovation and real operational impact.

**Matt Oberdorfer**
CEO, **EOT AI**

## LUNCH AND NETWORKING BREAK

12:00 (1 Hour)

**13:00**

### Safety in reliability and maintenance environments is often addressed through fragmented tools, static procedures, and lagging indicators

- How digital twins can be used as a unifying safety backbone—connecting people, processes, and technology into a single, integrated system.
- Drawing from real-world experience building and scaling digital twins within a large reliability and maintenance organization, this talk explores how spatial intelligence, asset context, and operational data can be brought together to proactively identify risk, prevent incidents, and close safety gaps at scale.
- Rather than treating safety as a standalone program, digital twins enable safety to be embedded directly into daily execution—maintenance planning, lockout/tagout workflows, access validation, condition-based monitoring, and technician decision-making.
- How an integrated digital twin approach improves system integrity, enhances visibility across the asset lifecycle, and enables closed-loop feedback between frontline observations and leadership decisions

**Shreya Hegde**
Sr Product Manager Tech, **Amazon**

**13:30**

### Spatial Ground Truth: The Missing Layer Between Your Digital Twin and the Physical Field

- How a scan-agnostic visual positioning layer enables AR work instructions, AMR/drone navigation, and QA workflows to share a single coordinate system across dynamic environments.
- Drawing from real deployments, we'll cover what actually determines field success: time-to-lock, offline resilience, map update cadence, and security requirements for GPS-denied industrial sites.
- Attendees will leave with a vendor-neutral framework for evaluating spatial infrastructure readiness and a clear picture of deployment archetypes that deliver measurable uptime and safety outcomes.

**Shadnam Khan**
Co-Founder, Product & GTM, **MultiSet AI Inc.**

**14:00**

### Designing Digital Twins: Avoiding no-ROI twins by working backwards from the real world

- Digital twins create change in the real world, but are often designed as software only bundles of capabilities.
- Multiple digital twin projects are "flaming out" 2-3 years after inception, due to lack of measurable improvements and low adoption.
- In order to avoid the no-ROI situation, digital twins require strong product thinking to create, measure and improve change in the real world.

**Rob Foster**
CEO, **GEMINUM**

## NETWORKING BREAK

14:30 (30 min)

**15:00**

### From Scan to System: Making As-Built Facilities Queryable

- Industrial facilities generate massive volumes of 3D scan data, yet most of it is never operationalized. At the same time, as-built conditions often diverge from existing documentation, limiting visibility into what actually exists in the field. This session explores how AI can transform scan data into structured, queryable systems. By identifying components, capturing as-built conditions, and enabling direct interaction with physical assets, teams can move beyond static visualization toward usable, system-level intelligence. Attendees will gain insight into how this approach improves facility visibility, supports process safety initiatives, and enables more effective inspections and digital walkdowns.

**Tyler Wooten**
Director of Technology, **FocisAI**

**15:30**

### From 12 Months to 1: A New Playbook for Modernizing Legacy Energy Software

- A deterministic alternative to manual, consultant-led modernisation discovery — and what it changes for cost, timeline, and risk
- How to ground AI coding tools in real system intelligence so modernisation work doesn't pile up new context debt as it retires the old
- Where to start: identifying the highest-leverage legacy system in your portfolio and the questions to ask before kicking off discovery

**Sharad Agrawal**
Chief Operating Officer (COO), **Adapts**

**16:00**

### "When AI-Enabled Decisions Become Material: Designing Decision Architecture for Industrial Systems."

- The session will explore how organizations in asset-intensive sectors such as oil & gas move from AI pilots to accountable operational decisions — and what governance, leadership, and system design are required when AI begins influencing capital, safety, and operational outcomes.

**Ludmila Pirogova**
Managing Partner & CEO, **NXTFrontier Group**

## END OF DAY 1

# Day 2
## Friday, May 15, 2026

● Sponsored Sessions ● Booked Sessions ● Available Sessions

**07:00**

### Registration & Refreshment Networking

**09:00**

### Reservoir Rock Ground Truth Data Calibration and Validation for AI in Oil & Gas

- Human-AI Collaboration & Cognitive Interface. The presentation will introduce a new concept that leverages expert geoscience and engineering knowledge of reservoir rock to fine-tune AI model inputs and outputs.
- This approach integrates multi-scale data, ranging from laboratory to basin levels, and incorporates multi-disciplinary expertise in petrology, mineralogy, geochemistry, geomechanics, petrophysics, and materials science.
- The data utilized includes raw drilling data, well logs, images of drill cuttings, and various rock laboratory measurements.

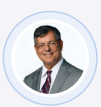


**Patrick Gathogo**
Petrologist / President, **Rock Microscopy Inc.**

**09:30**

### AI-Powered Collaboration in Capital Projects: How Owner–Operators and EPCs Use Bluebeam to Cut Rework, Strengthen Compliance, and Accelerate Oil & Gas Delivery

- Learn how leading oil and gas teams are using AI-assisted reviews and centralized digital workflows to reduce design-review cycles, minimize rework, and keep complex capital projects on schedule.
- Discover practical steps to standardize markups, P&ID reviews, and field–office collaboration so multi-disciplinary stakeholders stay aligned while maintaining regulatory and safety documentation quality.
- See real-world examples of how construction-focused AI and digital tools improve visibility across the asset lifecycle, from early design through commissioning, to unlock measurable efficiency and cost savings.

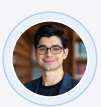


**Philippe Herve**
Head of Energy Industry | Driving Digital Transformation, **BlueBeam**

**10:00**

### How Physics-Based AI Is Transforming Industrial Systems into Real-Time Engines for Optimization, Efficiency, and Decarbonization

- Why traditional digital twins often fail to deliver real-time value, and how combining physics-based modeling with small-data AI enables faster, more accurate operational optimization.
- How industrial operators can transform existing infrastructure into continuously learning systems that improve production, reliability, and emissions performance without costly equipment upgrades.
- What the future of industrial operations looks like when digital twins evolve into autonomous optimization platforms capable of balancing safety, efficiency, and environmental constraints in real time.



**Andrei Gasic**
Physics-AI Applications Engineer, **Geminus AI**

**10:30**

### From Pilots to Production: Scaling Trustworthy AI Across the Oil & Gas Value Chain for Real Operational and Business Impact

- Artificial Intelligence is no longer a future promise for Oil & Gas — but scaling it beyond pilots remains a leadership challenge. This session explores how AI can be effectively operationalized across the O&G value chain, from upstream exploration and predictive maintenance to downstream optimization and commercial decision-making.
- Drawing from real enterprise-scale transformations in highly regulated and asset-intensive environments, the talk addresses three critical dimensions: (1) aligning AI initiatives with core business value and operational KPIs; (2) building trust through governance, data integrity, and responsible AI practices; and (3) enabling organizational adoption by integrating people, processes, and technology.
- Attendees will leave with a pragmatic framework to move from experimentation to sustainable AI-driven performance, reducing risk while accelerating impact.

**Alessandra Karine**
Director of Global Sales, Marketing & Corporate Communications, **Padtec**

**11:00**

### From Visualization to Decision: The Rise of AI-Powered Digital Twins

- Most digital twin initiatives stop at visualization—delivering impressive 3D environments but limited operational value. This session challenges that status quo and introduces the next evolution: AI-powered, decision-grade digital twins.
- Drawing on real-world deployments across smart cities, critical infrastructure, and large-scale developments, this talk explores how digital twins are transforming from passive monitoring tools into active intelligence platforms.
- By integrating live data streams, predictive analytics, and scenario simulation, organizations can move beyond hindsight dashboards to real-time, forward-looking decision-making. Attendees will gain a clear understanding of how to unify fragmented systems (BIM, GIS, IoT), enable "what-if" simulations, and operationalize AI to improve performance, resilience, and sustainability outcomes.
- The session will also highlight how leading organizations are evolving toward digital command centers—where complex environments are not just visualized, but actively managed and optimized. This is not about building better models. It's about running operations with intelligence.

**Raza Jafri**
Chief Executive Officer, **Metaworldx**

**11:30**

### Renewable-crude pathways and the role of digital traceability

- Feedstock variability challenge: Fast-pyrolysis, HTL, and Fischer–Tropsch routes are progressing, yet small-scale plants produce highly variable crude quality (oxygen, metals, TAN, stability), creating refinery compatibility and blending risks.
- Need for consistent, spec-compliant feed: Predictable quality is essential to protect catalysts, avoid unit upsets, and meet carbon-intensity (CI) and regulatory directives across the full supply chain.
- Digital and blockchain-IoT solutions: A shared, tamper-evident data layer links batch IDs with lab results and custody history, enabling real-time quality visibility, preventing double counting, and providing auditor-ready proofs—delivering repeatable specs, clearer acceptance windows, and fewer disputes for refiners and offtakers.

**Aditya Banerjee**
Director, Downstream, **Stratas Advisors**

**LUNCH NETWORKING BREAK** 12:00 (1 Hour)

**13:00**

### Available Session

**13:30**

### From Hype to Impact: Path to Deployable AI for Seismic Processing and Imaging

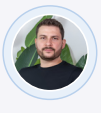
- Framing the Landscape: What's trending in AI for seismic workflows and how hybrid physics?plus?AI methods are augmenting seismic processing for QC and parameterization.
- Choosing the Right Approach: Balancing model?driven and data?driven AI while applying lessons learned around quality, scalability, and geophysical trust.
- Delivering Business Value: Driving speed, efficiency, and operational impact through effective AI?enabled seismic solutions.

**Shuzhen Ye**
Citizen Data Scientist at Processing Geophysics, **Shell**

**14:00**

### From Insights to Action: How GenAI Agents Elevate Reliability and Maintenance in FPSOs

- Gen AI Agents enabled true generic predictive maintenance, which was not possible before this technology
- Reliability improves when insights are close to actions with tangible recommendations
- Gen AI Agents can function as guardians, filtering out noise from predictive models' results, providing curated outputs.



**Caio Sene**
VP of Client Services, **Shape Digital**

**14:30** Panel Discussion

### From Data to Decisions: Scaling AI & Digital Twins Across Oil & Gas Operations

**Sonia Clayton**
President & CEO, **Virtual Intelligence Providers**

**Maksim Sonin**
Energy Project Fellow, **Stanford University**

**Saud Al-Temyatt**
Supply Chain Digital Transformation Lead, **Aramco**

**Benjamin Beberness**
Business Architecture Associate Director, **Accenture**

**Raza Jafri**
Chief Executive Officer, **Metaworldx**

**END OF DAY 2**