

AI4Energy Workshop

Practical Applications in Your Job Today

Thursday, 3rd October 2024 | Ardoe House Hotel, Aberdeen (UK)

KEYNOTE SPEAKER:



David Lecore

David is Head of Data Services and Compliance at the North Sea Transition Authority (NSTA).

The NSTA license, regulate and influence the UK oil and gas, offshore hydrogen, and carbon storage industries. NSTA support UK energy security, drive emissions reduction from UK supplies, and help accelerate the transition to net zero to realise the potential of the North Sea as an integrated energy basin.

David's NSTA role involves ensuring data is reported in a compliant manner, which in turn allows that data to be subsequently disclosed, so that anyone can realise the value it holds.

The NSTA's data compliance focus is not just on current data, but legacy data acquired or created decades ago. The data types now commonly reported are also expanding: Seismic, per well per day production data and infrastructure data have all commenced active reporting and disclosure during David's tenure.

One of David's current focuses is assisting DESNZ in finalising the carbon dioxide storage information and samples related legislation, in the 2023 Energy Act, to ensure that carbon storage licence related information will be retained, reported, and subsequently disclosed.

David has worked on the oil and gas sector his entire career initially working for oil companies, moving into an oilfield services company in 1997, then to the NSTA in 2016.



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North Sea
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SPEAKER - Session 1: Emerging AI Technology



Ajish Varghese

Ajish Varghese is a Senior Maintenance & Performance Engineer at Harbour Energy with 24 years of experience in the Oil & Gas, Aerospace, and Automotive sectors internationally. He specializes in Analytics, Data Science/AI, Asset Performance Management, and supporting Condition Monitoring. Ajish has played a key role in developing data collection, visualization, and analytical tools to enhance Asset Performance Management and drive continuous improvement with digital technologies and data-driven strategies.

At Harbour Energy, Ajish focuses on optimizing efficiency, improving reliability, and reducing unplanned production losses. His previous roles at ConocoPhillips and Petrofac Facilities Management involved cloud computing, data science, statistical modelling and IT systems across oil and gas disciplines. Ajish holds an MBA in Oil & Gas Management from Robert Gordon University and a B.Tech (Hons.) in Mechanical Engineering from the National Institute of Technology Calicut.

Presenting:

How Harbour is using GenAI

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SPEAKER - Session 2: Data Readiness & Data Utilisation



Fabio Concina

Fabio is the R&D Manager at Kwantis, overseeing the Artificial Intelligence and Data Engineering and Analytics teams. With over 10 years of experience in software engineering and data science, he significantly contributed to the development of the ID3 solution, a cutting-edge analytics software widely used by major energy companies globally. Fabio holds a BSc in Mathematical Engineering from Politecnico di Milano and an MSc in Statistics from the University of Trieste.

Presenting:

AI to Improve Data Quality for Automating Drilling Reports



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SPEAKER - Session 2: Data Readiness and Data Utilisation



Michael Aku

Michael Aku is an AI Researcher at University College London, where he applies cutting-edge AI to solve complex challenges in the energy and healthcare sectors. As a member of the Sargent Centre, a consortium between Imperial College and UCL, he's driving innovation in chemical processes through machine learning and artificial intelligence. His work pushes the boundaries of technology, creating impactful solutions that shape the future of these industries.

Previously, Michael led digital transformation projects at CypherCrescent, collaborating with global tech leaders like Huawei and Emerson. He currently serves on the board of SPE International Data Science and Engineering Analytics Africa, where he spearheads initiatives like Africa-wide datathons and AI research collaboration between industry and academia. He also mentors start-ups through the Founders Institute and Tony Elumelu Foundation, helping them scale with AI-driven innovation

Presenting:

Machine Learning to detect safety events from CCTV footage



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SPEAKER - Session 4: AI & GenAI in Oil & Gas



Steve Aitken

Steve Aitken is the Founder of Intelligent Plant, a software company in Aberdeen specializing in real-time data analysis for industrial equipment. With a BSc Hons in Computing Science from the University of Aberdeen, he has dedicated his career to making industrial data accessible and actionable.

He was named the University of Aberdeen's Alum of the Year in 2024 and is a Royal Society Entrepreneur in Residence, mentoring students and staff. He sponsors the "Inform Prize," encouraging teamwork among computing science students.

Steve is involved in the xAI project with EMEC and the University of Aberdeen, using AI to enhance green hydrogen production in Scotland. His work continues to inspire future entrepreneurs and innovators.

Presenting:

GenAI with real examples in Hydrogen facilities

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SPEAKER - Session 4: AI & GenAI in Oil & Gas



Tim Clarke

Tim is driven by a passion for harnessing cutting-edge technologies to bridge the gap between humans and machines, transforming the way we understand, interpret, and interact with information. Holding an MA in Religious Anthropology and an MSc in Data Science, Tim has had a diverse career, initially working internationally in the Oil Industry before shifting his focus to the tech sector. His expertise now centres on Natural Language Processing (NLP) and Knowledge Graph techniques to link complex datasets, facilitating more efficient data mining.

In the Oil Industry, Tim thrived in a dynamic and complex environment where he sharpened his skills in analysing intricate data, identifying patterns, and extracting actionable insights. These abilities were essential for managing projects and ensuring the successful execution of operations. His background in Anthropology equips him with a profound understanding of human behaviour, cultural dynamics, and societal structures—skills that have been invaluable in his role as an NLP Engineer. This awareness allows Tim to design NLP systems with a deep appreciation for context, cultural nuances, and diverse perspectives.

Currently employed at Katoni Engineering, Tim leverages tools like automation, data analytics, and AI to enhance business performance. His work focuses on optimizing workflows, applying decision science, and driving sustainable growth through data-driven insights. By aligning technological investments with strategic goals, Tim ensures measurable improvements in the company's operations.

Presenting:
Knowledge Graphs to enhance LLM's



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