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## Unleashing the Power of Digital for Oil &amp; Gas and New Energies

Tuesday, 22 February 2022

7:00 AM	<b>REGISTRATION</b>	RIO GRANDE EXHIBIT HALL A
	Networking Breakfast	RIO GRANDE EXHIBIT HALL A
8:00 AM	<b>T1 - Advances in ML Techniques for CCUS</b> - Moderator: Alireza Haghighat (IHS Markit) <b>Machine Learning Applications for Geologic Carbon Dioxide Storage Systems</b> Speaker: Autumn Haagsma (Batelle) <b>New machine learning concepts in geosciences: implications for carbon storage</b> Speaker: Shuvajit Bhattacharya (U TX BEG)	SABINE
	<b>T2 - AI/ML for CCUS applications</b> - Moderator: Wenyi Hu (Schlumberger) <b>Robust unsupervised learning workflow for monitoring subsurface carbon storage</b> Speaker: Keyla Gonzalez (Texas A&M University) <b>Deep learning for CO2 plume property prediction from time-lapse seismic shot gathers</b>	SAN ANTONIO
	<b>T3 - Sustainability Data</b> <b>What Lies Beneath: the Modern Energy Data Lakehouse</b> Keynote: Kim Padeletti (AWS) <b>Building Demand in a Nascent Market: AI in the Energy Space</b> Keynote: Mason Dykstra (EnThought) Panel: Joseph Batir (Petrotern), Michael Edwards (Edwards Energy Innovation Consulting)	TRINITY B
9:00 AM	<b>Sponsored Presentations</b> <b>Winning the War of Unstructured Content</b> Speaker: Becky Thomas (i2kConnect)	GRAND BALLROOM A
9:30 AM	<b>Sponsored Presentation</b> <b>Solving the Robot Data Problem with Industrial data operations</b> Speaker: François Laborie (Cognite North America)	GRAND BALLROOM A
10:00 AM	<b>BREAK</b>	
10:15 AM	<b>T1 - New Energy, Energy Storage, and Sustainability</b> - Lorena Moscardelli (Bureau of Economic Geology) Keynote: Anna Scott (Project Canary) <b>Accelerating positive progress in the energy transition: how continuous emissions monitoring data can help lower emissions</b> Panel: Wafik Beydoun (IOGP), Kurt Strack (KMS Technologies), Andres Chavarria (Optasense), Michael Edwards (Edwards Energy Innovation)	SABINE
	<b>T2 - AI/ML for CCUS &amp; Data Management applications</b> - Moderator: Wenyi Hu (Schlumberger) <b>Unsupervised AI workflow to evaluate the transition of the 50-year giant Groningen gas field quickly and thoroughly to potential multiple CO2 storage and geothermal viable projects</b> Speaker: Bernard Laugier (Seisnetics) <b>NLP Applications in Oil and Natural Gas Industry</b> Speaker: Srikanth Ryali (Schlumberger)	SAN ANTONIO
10:15 AM	<b>T3 - Contextualization – Making sense of your data</b> Keynote: Raoul LeBlanc (IHS Markit) <b>Shedding Light on Dark Data in the O&amp;G Industry</b> Keynote: Bryan McDowell (Sabata) Panel: Bilu Cherian (Premier Oilfield), Alejandro Valenciano (TGS), Isaac Aviles (Schlumberger), Scott Salamoff (Bluware), Mohamed Sidahmed (Shell)	TRINITY B
11:15 AM	<b>T1 - Technical Presentation</b> <b>CO<sub>2</sub> Storage Potential in Arbuckle Reservoir: A Case Study in Osage County, Oklahoma</b> Speaker: Benmadi Milad (The University of Oklahoma)	SABINE
11:45 AM	<b>EXPO / NETWORK</b>	RIO GRANDE EXHIBIT HALL A
12:00 PM	<b>LUNCH</b>	RIO GRANDE EXHIBIT HALL A
	<b>T1 - Smart Proxy Modeling</b> - Moderator: Manoj Valluri (Advanced Resources International) <b>CCS-Analytics; AI-based Carbon Capture and Storage</b> Speaker: Shahab Mohaghegh (WVU)	SABINE

1:00 PM	<b>T2 - AI/ML for Data Management - Moderator: Wenyi Hu (Schlumberger)</b> <span style="float: right;">SAN ANTONIO</span> <b>A Deep Learning Framework to Process Unstructured Drilling and Completion Reports</b> Speaker: Hamed Darabi (Quantum Reservoir Impact) <b>Unlocking the Potential of Trapped Data in Unstructured Documents Using Machine Learning: An Example from the US Gulf of Mexico</b> Speaker: Matt Fry (CGG)
	<b>T3 - Augmented Operations - Integration with robotics</b> <span style="float: right;">TRINITY B</span> Keynote: David Tonner (DWL) & Lamar Landry (Maxar) Panel: Aaron Lazarus (Pioneer), Dawn Porter (Stratum Reservoir), Nathan Campbell (Juniper Unmanned), Johan Daal (Luftronix)
2:00 PM	<b>T1 - Coupling Challenges - Moderator Jalal Jalali (Advanced Resources International)</b> <span style="float: right;">SABINE</span> <b>AI Perceptions for Solving Complex Future Energy Vectors</b> Speaker: Mohamed Sidahmed (Shell)
	<b>T2 - AI/ML for Data Management - Moderator: Wenyi Hu (Schlumberger)</b> <span style="float: right;">SAN ANTONIO</span> <b>A Raster Digitization Engine Based on Deep Learning</b> Speaker: Atul Laxman Katole (Schlumberger) <b>TabIO, an opensource trainable solution to capture tabular data in technical documents</b> Speaker: Oriane Nguyen-Thuyet (Agiled Data Decisions)
	<b>T3 - Monitoring Safety / Compliance</b> <span style="float: right;">TRINITY B</span> <b>Reconciling U.S. factor-based emissions modeling for Methane with data from remote sensing systems.</b> Keynotes Bill Barna (Google) <b>Permanent Fiber Optic Sensing for Monitoring Integrity of Reservoir, Well and Surface Infrastructure.</b> Keynote: Andres Chavarría (Optasense) Panel: Ge Jin (Colorado School of Mines), Arvind Sharma (Schlumberger), Doug Freud (SAP), Mohamed Sidahmed (Shell)
3:00 PM	<b>T1 - Technical Presentation</b> <span style="float: right;">SAN ANTONIO</span> <b>P-Cable Ultrahigh Resolution Seismic Data for Carbon Capture and Storage (CCS)</b> Speaker: Larry N. Scott (CS Subsea Inc.) <b>Novel Offshore CO2 Monitoring</b> Speaker: Rick Schrynemeekers (Amplified Geochemical Imaging)
4:00 PM	<b>BREAK</b>
4:15 PM	<b>BREAKOUT COLLABORATION</b> <span style="float: right;">GRAND BALLROOM A</span>
4:45 PM	<b>NETWORKING IN EXPO</b> <span style="float: right;">RIO GRANDE EXHIBIT HALL A</span>
<b>Wednesday, 23 February 2022</b>	
7:00 AM	<b>REGISTRATION</b> <span style="float: right;">RIO GRANDE EXHIBIT HALL A</span>
	<b>Networking Breakfast</b> <span style="float: right;">RIO GRANDE EXHIBIT HALL A</span>
8:00 AM	<b>T1 - Are good practices in the energy transition a catalyst for digital innovations?</b> <span style="float: right;">SABINE</span> Speaker: Wafik Beydoun (IOGP)
	<b>T2 - AI/ML for Data Management - Moderator: Tao Lin (Saudi Aramco)</b> <span style="float: right;">SAN ANTONIO</span> <b>Linking structured data to unstructured data: An E&amp;P industry collaboration to improve future decisions</b> Speaker: Connor Burt (Petrosys) <b>Scalable Energy Analytics with Lakehouse Architecture</b> Speaker: Sashi Gunturu (Petrabytes)
	<b>T3 - Monitoring and enhancing profitability with data</b> <span style="float: right;">TRINITY B</span> Keynotes: Peter Duncan (MicroSeismic) & David Reid (NOV) Panel: Ben Burke (Transitional Energy), Ryan Jarvis (ExxonMobil), Scott Granger (Applied Petroleum Technology), Mark Waddleton (First Genesis)
9:00 AM	<b>Sponsored Presentations</b> <span style="float: right;">GRAND BALLROOM A</span> <b>Got M(AI)L ? Solving operational and data challenges</b> Speaker: Doug Freud (SAP)
9:30 AM	<b>T3 - How to Perform a Magnetic Survey with a Drone</b> <span style="float: right;">GRAND BALLROOM A</span> Presenter: Nathan Campbell (Juniper Unmanned)
10:00 AM	<b>BREAK</b>
	<b>T1 - Oppotunities in Energy Transition</b> <span style="float: right;">SABINE</span> <b>Measuring what Matters: How Data will Accelerate the Energy Transition</b> Keynote: Josh Etkind (SHELL) <b>Technical Presentation</b> <b>How AI is Changing the Future of Work in Exploration Through Crowdsourcing</b> Speaker: Nate Suurmeyer (StudioX)

10:15 AM	<b>T2 - AI/ML for O&amp;G Applications</b> - Moderator: Sunil Garg (DATADEVIK) <span style="float: right;">SAN ANTONIO</span> <b>Digital Transformation@Scale powered by Machine Learning</b> Speaker: Sunil Garg (DATADEVIK) <b>Compliance with Brazil's National Petroleum Agency standards with convolutional neural networks to classify petrographic thin sections</b> Speaker: Vinicius Martins Botelho (Petrobras)		
	<b>T3 - Standards for Data Management</b> <span style="float: right;">TRINITY B</span> Keynote: Ali Hussein (SparkCognition) & Sashi Gunturu (Petrabytes) Panel: Julian Chenin (Bluware), David Leary (DeepTime Digital Earth), Benin Chelinsky (IHS Markit), Zhiyong He (Zetaware),		
11:15 AM	<b>T1 - Technical Presentation</b> <span style="float: right;">SABINE</span> <b>Top 3 Critical Criteria for AI success</b> Speaker: Marc Gallant (CANVASS AI)		
	<b>T2 - AI/ML for O&amp;G applications</b> - Moderator: Sunil Garg (DATADEVIK) <span style="float: right;">SAN ANTONIO</span> <b>Machine Learning Analytic Applications to an Exploration Well in Northwestern Colombia</b> Speaker: Deborah Sacrey (Auburn Energy)		
11:45 AM	<b>EXPO / NETWORK</b> <span style="float: right;">RIO GRANDE EXHIBIT HALL A</span>		
12:00 PM	<b>LUNCH</b> <span style="float: right;">RIO GRANDE EXHIBIT HALL A</span>		
1:00 PM	<b>BREAKOUT COLLABORATION</b> <span style="float: right;">GRAND BALLROOM A</span>		
2:00 PM	<b>COLLABORATION FEEDBACK &amp; COMMUNITY MESSAGE</b> <span style="float: right;">GRAND BALLROOM A</span>		
2:45 PM	<b>END OF EVENT</b>		
Central Time	T1- Energy Storage, CCUS, and ESG/Sustainability	T2- Artificial Intelligence and Machine learning	T3- Data Management and Architecture

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