



Next Generation Geophysical Land & Shallow Water Acquisition Workshop

23–25 Apr '24 • Muscat, Oman

TECHNICAL PROGRAMME

SPONSORS

DIAMOND



GOLD



SILVER



DELEGATE GIFT



COFFEE BREAK



DAY 1 - TUESDAY 23 APRIL 2024

Venue: JW Marriott Muscat Grand Ballroom A + B

07:30 - 08:30	Registration Open Onsite
08:30 - 08:35	HSE Address by Hotel
08:35 - 08:45	Welcoming by Co-chairs
08:45 - 08:55	Welcoming by SEG
08:55 - 09:15	Day 1 Opening by Petroleum Development Oman
09:15 - 09:35	Opening Address by Aiman Bakhorji - Director of Imaging, Saudi Aramco
<hr/>	
Session 1 09:35 - 10:55	SURVEY EVALUATION AND DESIGN: PART 1 Session Chairs: Ghada Almoulani (Tatweer Petroleum), Amine Ourabah (STRYDE)
	Compressive Sensing Testing and Ultra-Dense Survey Design David Arnold (ADNOC)
	Compressive Sensing and Mutual Coherence Calculation. An Alternate Approach Using Adequately Constructed Time (ACT) David Ridyard (ACTeQ)
	Old and New Ideas for 3D Land Seismic Acquisition Geometries Jan de Bruin (BGP)
	Optimizing Onshore Seismic Acquisition based on Risk, Costs, HSE and Data Quality Dave Monk (ACTeQ)
10:55 - 11:25	Discussion - 30 min
11:25 - 11:35	Committee and Sponsor Recognition
11:35 - 11:45	Group Photo
11:45 - 12:00	Coffee Break - 15 min
<hr/>	
Session 2 12:00 - 13:20	SURVEY EVALUATION AND DESIGN: PART 2 Session Chairs: Ghada Almoulani (Tatweer Petroleum), Amine Ourabah (STRYDE)
	Illumination Study, Kirchhoff Modelling and Resolution Evaluation for a 3D Onshore Seismic Survey Nabil Khadiri Yazami (Saudi Aramco)
	Advancing Seismic Exploration: ENAGEO's Approach for Enhanced Data Quality and Efficiency in Algerian Reservoirs Babaia Foudil (Entreprise Nationale de Geophysique - ENAGEO)
	Bahrain Transition Zone Seismic Project - Survey Design, Planning and Procurement Workflows and Strategies Christopher Rudling (Tetrattech)
	Efficient 3D Vibroseis Acquisition in Rough Terrain using Lightweight Nodes Jurgen Hoffmann (DNO)
13:20 - 13:50	Discussion - 30 min
13:50 - 14:50	Lunch - 1hr
<hr/>	
Session 3 14:50 - 15:50	OBN, SHALLOW WATER AND TRANSITION ZONE Session Chairs: Wathik Alaaraji (TGS), James Nicholas Shorter (Petroleum Development Oman)
	Impact of Timely Acquisition of High-resolution Seismic Data on a Shallow Water Field Ufuoma Akpomeyoma (Shell)
	An Integrated OBN Solution for TZ Project Cao Mingqiang (BGP)
	OBN Program Case History in Congested Fields of Southeast Asia Chetan Anand Karri (SAExploration)
15:50 - 16:20	Discussion - 30 min
17:00 - 19:00	Welcome Reception

DAY 2 - WEDNESDAY 24 APRIL 2024

Venue: JW Marriott Muscat Grand Ballroom A + B

07:30 - 08:30	Onsite Registration		
Session 4 08:30 - 09:50	SOURCE AND RECEIVER TECHNOLOGIES: PART 1 Session Chairs: Arjun Selvakumar (Inova Geophysical), Abdelrauof Badawi (ARGAS)	Session 7 15:10 - 16:30	ACQUISITION TECHNIQUES AND PLATFORM: PART 2 Session Chairs: Majid Mohammed Al Battashi (SLB), Shotaro Nakayama (INPEX)
	KEYNOTE: An Overview of MEMS Value for Land and OBN Single Sensor Acquisition and Inversion Nicolas Tellier (SERCEL)		KEYNOTE: Revisiting the Single Sensor vs Array Debate in the Light of New Nodal Technology Amine Ourabah (STRYDE)
	KEYNOTE: State of the Art Land Source Solutions for Efficient Seismic Operations Gilles Ollivrin (SERCEL)		Enhancing Local Stacking for Processing of High-Channel-Count and Single-Sensor Data in Scattering-Prone Seismic Areas Ilya Silvestrov (Saudi Aramco)
	Evaluation of Seismic Mems-Based Digital Sensors: Field Trials in the Sultanate of Oman Alexander Muller (Petroleum Development Oman)		Development and Application of Smartpoint 5G Seismic Data Acquisition System Qingfu Lin (SINOPEC Geophysical Research Institute)
	Quasi - Continuous Recording and Controlled Sweep Signals Both Increase Productivity of Standard Cabled Acquisition and Image Resolution Alexander Zhukov (GDS)		Targeted Subsurface Exploration using Swarm of Autonomous Seismic Drones Pavel Golikov (Saudi Aramco)
09:50 - 10:20	Discussion - 30 min	16:30 - 17:00	Discussion - 30 min
10:20 - 10:35	Coffee Break - 15 min		
<hr/>		<hr/>	
Session 5 10:35 - 11:55	SOURCE AND RECEIVER TECHNOLOGIES: PART 2 Session Chairs: Arjun Selvakumar (Inova Geophysical), Abdelrauof Badawi (ARGAS)		
	KEYNOTE: The Innovation Journey Continues: Nimble Seismic Source Technology Allan Châtenay (Explor)		
	Advances on Land Vibroseis Source Technology Towards Low Frequencies John Wei (INOVA Geophysical, Inc.)		
	From Geophone Array to Point Receiver: What Impact on the Sensor? Nicolas Goujon (STRYDE)		
	Minimizing the Impact of Explosive Sources Utilizing Miniaturization of Equipment and Dispersed Arrays Andrea Crook (OptiSeis Solutions Ltd)		
11:55 - 12:25	Discussion - 30 min		
12:25 - 13:25	Lunch - 1hr		
<hr/>		<hr/>	
Session 6 13:25 - 14:25	ACQUISITION TECHNIQUES AND PLATFORM: PART 1 Session Chairs: David Arnold (ADNOC), Saif Messabi (ADNOC)		
	KEYNOTE: Optimizing Seismic Operations by Breaking Silos and Leveraging Data Gaëtan Mellier (SERCEL)		
	KEYNOTE: The Next Generation Land Seismic - A Simulation of a Million-Channel Crew Kevin O'Connell (STRYDE)		
	Development of 5G Electromagnetic Node and its Application in Hydraulic Fracturing Monitoring Zhigang Wang (BGP)		
14:25 - 14:55	Discussion - 30 min		
14:55 - 15:10	Coffee Break - 15 min		



Next Generation Geophysical Land & Shallow Water Acquisition Workshop

23–25 Apr '24 • Muscat, Oman

TECHNICAL PROGRAMME

SPONSORS

DIAMOND



GOLD



SILVER



DELEGATE GIFT



COFFEE BREAK



DAY 3 - THURSDAY 25 APRIL 2024

Venue: JW Marriott Muscat Grand Ballroom A + B

Session 8	DISTRIBUTED ACOUSTIC SENSING (DAS) AND SEISMIC SURVEYS FOR ENERGY TRANSITION Session Chairs: Antonio DiMatteo (Shell), Hussain Ghanim (Saudi Aramco)
08:30 - 09:50	Productivity Enhancement of Multi-Well Walk-Away DAS-VSP Survey for a CCUS Demonstration Project Onshore Japan Yuji Yamada (Inpex Corporation) Advancements In Seismic Exploration, A Key Enabler For The Energy Transition Abdelraouf Badawi (ARGAS) The Acquisition and Processing Of Simultaneous Dual-Well DAS VSP in a Desert Environment Ali Aldawood (Saudi Aramco) 3C Passive Seismic With Autonomous Nodes for Natural Hydrogen Exploration Amine Ourabah (STRYDE)
09:50 - 10:20	Discussion - 30 min
10:20 - 10:35	Coffee Break - 15 min
Session 9	ADVANCES IN DATA PROCESSING RELATED TO LAND AND SHALLOW WATER ACQUISITION Session Chairs: Ibrahim Hinaï (CGG), Alexander Muller (Petroleum Development Oman)
10:35 - 11:55	KEYNOTE: Full Waveform Inversion on a Sparse Nodal Survey at Sleipner Fons Ten Kroode (TGS) Combining Low Rank Approximation and SALSA-L1 Interpolation for Irregular Spatial Sampled Data David Le Meur (CGG) A Case Study of Transition-Zone 3D Seismic Processing in Abu Dhabi, UAE Zaibing Ye (BGP) Utilization of Continuous Recording in Near-surface Modeling: A Case Study from the Sultanate of Oman Issa Al-Suwaidi (CGG)
11:55 - 12:25	Discussion - 30 min
12:25 - 13:25	Lunch - 1hr
Session 10	OPERATIONAL EXCELLENCE (HSE, ACQUISITION, LOGISTICS, EFFICIENCY) Session Chairs: Mohammed Al-Hosni (Petroleum Development Oman), David Le Meur (CGG)
13:25 - 14:45	PDO Nodal Sand Dunes Seismic Acquisition in Sultanate of Oman Ahmed Al-Raqmi (Petroleum Development Oman) Developments in land and transition zone nodal data acquisition utilising their inherent capabilities to improve operations Andrew Clark (INOVA Geophysical, Inc.) Demystifying Novel Technologies in Seismic Acquisition – Sultanate of Oman Case Study Uche Aigbokhai (Petroleum Development Oman) HSE in Land Seismic Acquisition Adapting to New Technologies and Beyond Taimur Al-Wadahi (Petroleum Development Oman)
14:45 - 15:15	Discussion - 30 min
15:15 - 15:30	Closing by Co-chairs - 15 min