

# Advances in Marine Seismic Data Acquisition

7- 9 September 2021 | Virtual



# PROGRAMME

UNITED KINGDOM TIME  
(GMT + 1:00)

## Schedule

- 08:30 - 09:30 HOURS : US (CST)
- 09:30 - 10:30 HOURS : LONDON
- 10:30 - 11:30 HOURS : AMSTERDAM/BERLIN/  
PARIS/OSLO
- 11:30 - 12:30 HOURS : RIYADH/DOHA/  
KUWAIT CITY/MOSCOW
- 12:30 - 13:30 HOURS : UAE
- 13:30 - 14:30 HOURS : NEW DEHLI
- 14:30 - 15:30 HOURS : BANGKOK/JAKARTA
- 15:30 - 16:30 HOURS : KUALA LUMPUR/  
BEIJING/PERTH/SINGAPORE
- 16:30 - 17:30 HOURS : TOKYO/SEOUL
- 17:30 - 18:30 HOURS : BRISBANE

## Commitee

- RAIMON ALFARO, TOTALENERGIES
- MARTIN WIDMAIER, PGS
- ANDREW LONG, PGS
- ED HAGER, SHEARWATER
- JEREMY FITZPATRICK, WOODSIDE
- JULIANTY SUTAN, SHEARWATER
- MARINA COSTELLOE, GEOSCIENCE AUSTRALIA
- MATTHEW CANNON, SHELL
- M. ZABUDDIN ZAWAWI, PETRONAS
- NICOLAS TELLIER, SERCEL
- NOOR AMIN ZAKARIAH, UNIVERSITI  
TEKNOLOGI PETRONAS
- TOMOHIDE ISHIYAMA, ADNOC
- ZULKARNAIN ANAS, KUFPEC

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## Tuesday, 7 September 2021

All Session are in United Kingdom Time (GMT+1)

- 08:30 - 08:40 **Welcome Message by Raimon Alfaro and Martin Widmaier**
- 08:40 - 08:50 **SEG Leadership Keynote Speaker -**
- 08:50 - 09:15 **Opening Address**
- SESSION 1 **NEW ENERGIES - HIGH RESOLUTION NEAR SURFACE SEISMIC I**  
Session Chair: Ed Hager (Shearwater) and Noor Amin Zakariah (Universiti Teknologi PETRONAS)
- 09:15 - 09:35 **High-resolution acquisition solution for cost-effective marine seismic operations**  
Thibaut Choquer/ Gaëtan Mellier, Kappa
- 09:35 - 09:55 **Decasource offshore 3D Seismic Survey for Deep-Sea Mineral Exploration**  
Adriana Citlali Ramirez, TGS
- 09:55 - 10:15 **Near- field Hydrophe (NFH) for Geohazards**  
Matt Canon, Brunei Shell
- 10:15 - 10:35 **Exploiting the Full Seismic Wavefield for Geohazard Quality Shallow-to Deep Resolution**  
Andrew Long, PGS
- 10:35 - 10:55 **P-Cable Ultrahigh Resolution (UHR) Seismic Data for Carbon Capture and Storage (CSS)**  
Larry Scott, NCS Subsea Inc.
- 10:55 - 11:15 **Moderated Discussion - 20 min**
- 11:15 - 11:30 NETWORKING BREAK - 15 min
- SESSION 2 **4D (TIME LAPSE) SURVEYS**  
Session Chair: Tomohide Ishiyama (ADNOC) and Andrew Long (PGS)
- 11:30 - 11:50 **4D Monitoring Technologies in Brunei shallow waters.**  
Azmin Salleh, Shell
- 11:50 - 12:10 **A Campaign of 4D Seismic Monitor Surveys on Australia's North-West Shelf**  
Jeremy FitzPatrick, Woodside Energy Ltd.
- 12:10 - 12:30 **Swath matching technique: An unconventional yet efficient way to acquire 3D seismic surveys offshore – A North Sea Example**  
Emma McDonald, Ion Geo
- 12:30 - 12:50 **Designing an objective-based time-lapse acquisition strategy**  
Mike Branston, Schlumberger
- 12:50 - 13:10 **Moderated Discussion - 20 min**
- 13:10 - 14:10 POST EVENT NON-MODERATED EVENT

## Wednesday, 8 September 2021

All Session are in United Kingdom Time (GMT+1)

- SESSION 3 **MARINE DATA ACQUISITION TECHNOLOGY I**  
Session Chair: Jeremy FitzPatrick (Woodside) and Martin Widmaier (PGS)
- 08:30 - 08:50 **Hybrid PZ Streamers**  
Sergio Grion, Shearwater
- 08:50 - 09:10 **Reviewing fiber optic seismic data acquisition in marine environments: opportunities and design considerations**  
Mike Branston, Schlumberger
- 09:10 - 09:30 **3C MEMS sensors for True Vertical and Orthogonal OBN Sensing**  
Nicolas Tellier, Sercel
- 09:30 - 09:50 **Embraced Technologies for Pre-Salt Imaging: An Integrated Approach to Address Different Challenges**  
Edysuzaily Kamarudin (Edy), PETRONAS
- 09:50 - 10:10 **Wide streamer configuration for Exploration surveys in Deep Offshore – Learning's and way for**  
Magali Collin, TotalEnergies
- 10:10 - 10:40 **Moderated Discussion - 30 min**
- 10:40 - 10:55 NETWORKING BREAK - 15 min
- SESSION 4 **MARINE DATA ACQUISITION TECHNOLOGY II**  
Session Chair: Matthew Cannon (Shell) and Raimon Alfaro (TotalEnergies)
- 10:55 - 11:15 **Extending offsets of the 3D towed streamer acquisition**  
Nikolay Amelin, Geology Without Limits
- 11:15 - 11:35 **Autonomous Underwater Vechiles for Ocean Bottom Surveys: Are we ready?**  
Constatine Tsingas, Saudi Aramco
- 11:35 - 11:55 **Efficient and automatic detection of Harbour Porpoise click trains in seismic environments**  
Christophe L'HER, Sercel
- 11:55 - 12:15 **Free Ocean Bottom Node - Valued for the Sparse Node Technology**  
Satoshi Shimizu, Nippon Marine Enterprises
- 12:15 - 12:45 **Moderated Discussion - 30 min**
- 12:45 - 13:45 POST EVENT NON-MODERATED EVENT

## Thursday, 9 September 2021

All Session are in United Kingdom Time (GMT+1)

- SESSION 5 **ADVANCES IN SURVEY DESIGN**  
Session Chair: M. Zabuddin Zawawi (PETRONAS) and Jon Cocker (Beach Energy)
- 08:30 - 08:55 **The continuous wavefields method – improved source side sampling and operational efficiency with reduced sound levels**  
Tilman Klüber, PGS
- 08:55 - 09:15 **Low frequencies and the consequence for seismic source design**  
Gerrit Balquiere, Delft University of Technology
- 09:15 - 09:35 **Automated survey design for direct inversion of compressed data via the integration of a metaheuristic and machine learning**  
Shotaro Nakayama, INPEX
- 09:35 - 09:55 **Impact of Shot-Time Dithering on Simultaneous Source Acquisition - OBN Scenario**  
Rajiv Kumar, Schlumberger
- 09:55 - 10:25 **Moderated Discussion - 30 min**
- 10:25 - 10:40 NETWORKING BREAK - 15 min
- SESSION 6 **MARINE DATA ACQUISITION TECHNOLOGY**  
Session Chair: Nicolas Tellier (Sercel)
- 10:40 - 11:00 **Brunei's first full Ocean Bottom Node Survey – Planning and Execution**  
Chris Walker/Jon Wall, BGP
- 11:00 - 11:20 **Cost-effective multisensor streamer MAZ acquisition with wide-tow sources and variable streamer length**  
Carine Roalkvam, PGS
- 11:20 - 11:40 **Marine Vibrators: Possibilities of New Alternative Seismic Source in Transition Zone Area: A Case Study from East Malaysia**  
Tasvir Kaur/ Sylvester Stephen, PETRONAS Carigali Sdn. Bhd.
- 11:40 - 12:00 **Seismic surveying with a deep-towed marine vibrator**  
Hiroaki Ozasa, IHI Corporation
- 12:00 - 12:20 **Penta Source 3D Marine Acquisition in the Sarawak Basin Malaysia**  
Engku Aminulhakim, PETRONAS
- 12:20 - 12:50 **Moderated Discussion - 30 min**
- 12:50 - 12:55 **Wrap-up by Workshop Technical Co-Chairs**
- 12:55 - 13:55 POST EVENT NON-MODERATED EVENT