

Didier RAPPIN, Estelle REBEL - *WS1 Toward good practice for geophysical monitoring of CO2 storage* — Sunday 1 June – Monday 2 June

Convenor: **Didier Rappin (TotalEnergies), Estelle Rebel (TotalEnergies)**

Mathieu VINCHON - *WS1 Toward good practice for geophysical monitoring of CO2 storage* — Sunday 1 June – Monday 2 June, 11:30

Northern Lights updated monitoring plan focusing on passive seismic monitoring -

**Matthieu Vinchon (Northern Lights)**

Olivia COLLET - *WS3 Artificial Intelligence (AI) for seismic processing and reservoir characterization: a game changer ?* — Sunday 1 June, 09:10

Distributed Acoustic Sensing Instrumental Noise removal: Machine Learning Approaches

**O. Collet (Curtin University)**

Alexandre CHAPART - *WS4 Near-surface characterization: a light at the end of the tunnel ?* — Sunday 1 June, 11:30

Diving wave tomography, FWI and Joint inversion with large near-surface complexity, onshore and in shallow water

**Alexandre Chapart, Martin Grimshaw, Claudio Strobbia (Realtimeseismic)**

Guillaume SAUVIN - *WS10 Elastic inversion of 2D/3D UHR/EHR seismic data for offshore wind farms. What are the challenges to get there ?* — Monday 2 June, 14:30

Panel Discussion: Moderators: Leon Barends (TTE) & Sanket Bhattacharya (Fugro),

Joek Peuchen (Fugro), Andy Hill (BP), Gwenaëlle Salaün (formerly Ørsted) & **Guillaume Sauvin (Equinor)**

Sylvain MASCLET - *FWI - Velocities-1 - Elastic session* — Tuesday 3 June, 09:40

Reservoir-based Elastic Full-waveform Inversion: Maximizing Streamer Data Potential in Exploration

**S. Masclet (Viridien)**

Jeanne VIDAL - *DS-22. Petroleum data acquisition and Energy Transition in France - 2 session* — Tuesday 3 June, 15:20

From Hydrocarbons to Geothermal Lithium: The Evolving Resource Legacy of the Upper Rhine Graben in Europe

**J. Vidal (Lithium De France)**

Aline ROBIN - *Signal processing: phase, motion and resolution session* — Tuesday 3 June, 10:40

Source motion corrections for marine vibrator data: who's who and what they're not

**A. Robin (Total-energies Connected)**

Mohammed Outshone FAOUZI ZIZI - *ML & AI for Seismic Processing-2 session* — Tuesday 3 June, 15:00

Superior Ultra-High Resolution Seismic Deghosting through Deep Learning with a Custom Autocorrelation Loss

**M. Faouzi Zizi (TGS)**

Olivia COLLET - *DAS Monitoring and DAS-VSP session* — Tuesday 3 June, 15:40

Monitoring of a Shallow CO2 Controlled Release Experiment Using Time-lapse Analysis of Downhole DAS Rayleigh Waves

**O. Collet (Curtin University)**

Darney Destin NZIENGUI BÂ - *DAS Monitoring and DAS-VSP session* — Tuesday 3 June, 16:40

Fiber-Optic Monitoring of Onshore Pipelines: Applications in Third party detection and Seismic Monitoring

**D. Nziengui Bâ (FEBUS Optics)**

- Alba ORDONEZ ADELLACH - *ML & AI for Seismic Facies Mapping session* — Tuesday 3 June, 09:40  
Interactive injectite mapping with minimal training data using self-supervised learning  
**A. Ordonez (Norsk Regnesentral)**
- Didier LECERF - *Time-Lapse (4D): processing and inversion session* — Tuesday 3 June, 16:40  
4D Seismic Inversion Challenges, a Case Study on the Mature Albacora Leste field, Campos Basin, Brazil  
**D. Lecerf (TGS)**
- Philippe BERTHET - *History Matching & 4D seismic session* — Tuesday 3 June, 16:40  
Reservoir Model Update Using a 4D Flow-Based Distance to Front Objective Function  
**P. Berthet (TotalEnergies One Tech)**
- Dariusz JAVANI - *CCS Screening & Site Characterisation 2 (part 2) session* — Tuesday 3 June, 16:40  
Experimental investigation and numerical simulation of thermal cycling effects on the integrity of CO<sub>2</sub> injection wells  
**D. Javani (Ecole nationale des ponts et chaussées)**
- Vincent MAURER - *DS-21. Geothermal Energy in France: A Game Changer for Accelerating Decarbonisation session* — Tuesday 3 June, 11:20  
Temporal evolution and risk management of induced seismicity at the Rittershoffen geothermal plant (France)  
**V. Maurer (ES Geothermie)**
- Mathieu DARNET - *DS-05. Deep-Seated Mineral Exploration: Advances for Terrestrial and Marine Deposits session* — Tuesday 3 June, 15:40  
Towards multi-scale multi-physics exploration of deep land mineral deposits  
**M. Darnet (BRGM)**
- Frédéric DUBOIS - *Non-Seismic Acquisition & Processing poster session 1A* — Tuesday 3 June, 14:00  
3D time-domain AEM modelling for mapping prediction of mineralized ore bodies  
**F. Dubois (BRGM)**
- Maud CAVALCA - *Seismic Velocities & Imaging 1 poster session 1D* — Tuesday 3 June, 14:00  
Dense point spread functions using encoded Born modelling and attribute migration  
**M. Cavalca (SLB)**
- Patrick BAUD - *Energy Transition 1 poster session 5* — Tuesday 3 June, 14:00  
The influence of temperature on the permeability of damaged granite  
**P. Baud (University of Strasbourg)**
- Mathieu REINIER - *FWI - Imaging-1 - Case Studies session* — Wednesday 4 June, 14:20  
High-resolution land FWI under dunes in the Sultanate of Oman: taking advantage of continuous recordings  
**M. Reinier (Viridien)**
- Alessandro VINCIGUERRA - *EM Methods 1 session* — Wednesday 4 June, 09:40  
Localized ensemble-based inversion of ERT data: synthetic test and application to mining exploration  
**A. Vinciguerra (University of Strasbourg - CNRS - ITES)**
- Ali MOHAND-SAID - *EM Methods 1 session* — Wednesday 4 June, 11:20  
Goelectric structures modelling around unconformity-related uranium deposits through joint inversion of electromagnetic and electrical data  
**A. Mohand-Said (Université de Strasbourg - CNRS - ITES)**
- Didier LECERF - *Acquisition Geometries & Hardware-Marine-1 session* — Wednesday 4 June, 14:20  
"Drop & Pop" 3C submersed floating OBN for cost effective marine seismic acquisition  
**D. Lecerf (TGS)**
- Bruno PAGLICCIA - *Acquisition Geometries & Hardware-Marine-1 session* — Wednesday 4 June, 15:00  
OBN Acquisition cost optimization and its impact on reservoir characterization: A shallow water case study  
**B. Pagliccia (TotalEnergies)**

Verena Vicenza SCHIFANO - *Potential Field Methods and Remote Sensing session* — Wednesday 4 June, 16:00

Calibration of shipborne vector magnetometer data using line turns

**V. Schifano (ITES - University of Strasbourg/CNRS/ENGEEES)**

Zoé RENAT - *Seismic Reservoir monitoring and characterisation session* — Wednesday 4 June, 09:00

4D seismic signal detectability in pre-salt carbonate domain and survey design impact

**Z. Renat (TotalEnergies)**

Didier RAPPIN - *Seismic Reservoir monitoring and characterisation session* — Wednesday 4 June, 09:20

How fluid miscibility impacts 4D seismic signal in conventional or CO2 storage reservoir ?

**D. Rappin (TotalEnergies)**

Alexandre STOPIN - *Geothermal exploration session* — Wednesday 4 June, 10:00

Geoscan Île-de-France: Integrating New and Vintage Data to Foster Development of Deep Geothermal Projects

**A. Stopin (BGRM)**

Olivia COLLET - *Rock Physics-2 session* — Wednesday 4 June, 16:00

Effect of pressure conditions on elastic properties of sandstones: insights from distributed acoustic sensing laboratory measurements

**O. Collet (Curtin University)**

Gwenola MICHAUD - *Micro & Passive Seismic* — 1 session - Thursday 5 June, 10:00

Assessment of the Seismic Monitoring Network for a Deep Geothermal Project

**G. Michaud (ISAMGEO; GM Consulting)**

Laure DUBOEUF - *Micro & Passive Seismic* — 1 session - Thursday 5 June, 10:40

Ambient noise monitoring of an aquifer gas storage: time-lapse tomography

**L. Duboeuf (CVA for Storengy SAS (Engie))**

Amine OURABAH - *Micro & Passive Seismic - 1 session* — Thursday 5 June, 11:40

Natural hydrogen exploration on the Pyrénées foothills using 3C passive seismic recorded with compact autonomous nodes

**A. Ourabah (STRYDE)**

Joffrey BRUNELLIÈRE - *Multi Component session* — Thursday 5 June, 17:40

How quick new OBN seismic can deliver value for drilling? A case study from West Africa

**J. Brunellière (TotalEnergies)**

Estelle REBEL - *CCS & Waste Storage: Site Operations & Monitoring 3 session* — Thursday 5 June, 17:20

Seabed DAS for CCS Induced Seismicity Monitoring: where do we stand?

**E. Rebel (TotalEnergies)**

Lucas PIMIENTA - *Rock Physics-3 session* — Thursday 5 June, 16:40

Attenuation in dry sandstones: Role of strain amplitude, frequency and temperature

**L. Pimienta (UNIL; EPFL)**

Pierre Henri ROCHE - *Digital Transformation Area, Energy Transition Area & International Prospecting Center presentations session* — Thursday 5 June, 10:20

Regional Highlights 2

Speaker - **P. Roche (Lithium de France)**

Estelle REBEL - *WS18 Distributed fiber optic sensing for seismic applications* — Friday 6 June

Convenor: **Estelle REBEL (TotalEnergies)**

Estelle REBEL - *WS18 Distributed fiber optic sensing for seismic applications* — Friday 6 June, 09:55

Exploring DAS seismic for active and passive monitoring: highlights and challenges

A. Calvert (TotalEnergies), **E. Rebel (TotalEnergies)**

Didier LECERF - *WS19 4D seismic monitoring: can we relax acquisition 4D repeatability constraints while retrieving reliable 4D signal ?* — Friday 6 June

**Didier LECERF (TGS)**, convenor

Didier LECERF (TGS) - *WS19 4D seismic monitoring: can we relax acquisition 4D repeatability constraints while retrieving reliable 4D signal ?* — Friday 6 June, 10:10

4D Least Square Imaging and 4D FWI challenges

**Didier Lecerf (TGS)**

2025-05-25

