

Antoine Guitton - *FWI - Theoretical Developments I* session - Tu 08:30-12:10

Chairman: R.E. Plessix - Shell Global Solutions International BV, **A. Guitton** - Geolmaging Solutions Inc.

Jean-Luc Mari - *Tracking Uncertainty and Risk through the Integrated Workflow* session — Tu 08:30

G105 01 Consistent Uncertainty Quantification on Seismic Amplitudes

L.D. Sandjivy* (SeisQuaRe), A. Shtuka (Seisquare), **J.L. Mari** (IFP School) & B. Yven (Andra)

Ruben Sanchez - *Seismic Acquisition I* session — Tu 08:30

ELI1 01 Cableless Seismic Acquisition Technology Evaluation and First Full Field Implementation in France and Uganda

J.M. Mougénot* (Total), C. Cardama (Total), P. Faure (Total) & **R. Sanchez** (Total E&P Uganda)

Didier Rappin - *Time-lapse Reservoir Monitoring* session — Tu 08:55

G102 02 Calibration of a Weak 4D Seismic Signal for Fluid Pressure Assessment

D. Rappin* (Total), P. Dos-Reis (Total), P. Thore (Total) & C. Hubans (Total)

Ruben Sanchez - *Seismic Acquisition I* session — Tu 08:55

ELI1 02 Cableless Seismic Acquisition to Reduce Environmental Footprint in Murchison Falls National Park Uganda

C. Cardama* (Total S.A.), **R. Sanchez** (Total E&P Uganda) & J.M. Mougénot (Total S.A.)

Philippe Herrmann - *Seismic Acquisition I* session — Tu 09:20

ELI1 03 Allowing Seismic Surveys to Boldly Go Where No Surveys Have Gone Before

S. Baris (CGG), N. Badel (CGG), H. Ribeiro (CGG), F. Layan* (CGG), **P. Herrmann** (CGG), O. Lamerain (TIGF), A. Jacques (TIGF) & P. Faure (TOTAL)

Jean-Luc Mari - *Reservoir Characterization - Case Studies* Poster session — Tu 10:30

P10 05 Sedimentology, Petrophysics and 3D Seismic Contributions to the Study of the Eastern Paris Basin Formations (France)

B. Yven* (Andra) & **J.L. Mari** (IFP Énergies nouvelles - IFP school)

Emmanuelle Brechet, Coline Euriat - *Time-lapse Reservoir Monitoring* session — Tu 10:55

G102 06 Initial Results of a Pilot 4D Seismic Monitor in a Difficult Shallow Offshore Carbonate Context - Dynamic Connectivity and Implications for Development

A.A. Adeyemi* (Total S.A.), **E. Brechet** (Total S.A.), C. Hubans (Total S.A.), **C. Euriat** (TEP Qatar), J.F. Le Roch (TEP Qatar), T. Pigeaud (TEP Qatar) & M. Emang (Qatar Petroleum)

Mickaëlle Le Ravalec - *Tracking Uncertainty and Risk through the Integrated Workflow* session — Tu 10:55

G105 06 A Texture Synthesis Based Algorithm for Simulating Reservoir Models

C. Gardet (IFP Energies Nouvelles), **M. Le Ravalec*** (IFP Energies Nouvelles) & E. Gloaguen (INRS (ETE))

Emmanuelle Brechet - *Time-lapse Reservoir Monitoring* session — Tu 11:45

G102 08 4D Seismic Warping in Two Steps for Overburden and Reservoir - Example of a Compacting Carbonate Field

J. Fiore* (Total), C. Hubans (Total) & **E. Brechet** (Total)

Sébastien Soulas - *VSP Processing and Imaging* session - Tu 13:30-17:10

Chairman: **S. Soulas** - BP, M. Charara - Schlumberger Moscow Research Center

- William Allard - *Borehole Seismics and Acoustic Logging* poster session — Tu 13:30
P09 09 Multi-offset Vertical Seismic Profile Acquisition with Hybrid Optical-electrical Wireline Cable
A.H. Hartog* (Schlumberger Oilfield UK), B. Frignet (Schlumberger), D. Mackie (Schlumberger) & **W. Allard** (Schlumberger / EOST)
- Antoine Guitton - *Decon, Deghost and Much More* session — Tu 13:30
E103 09 Results of Deconvolution with Sparseness Constraints
A. Guitton* (Geolmaging Solutions Inc.) & J. Claerbout (Stanford University)
- Sébastien Haffen, Marc Diraison - *Reservoir Characterization - Case Studies* session — Tu 13:30
D203 09 Temperature Gradient Anomalies in the Buntsandstein Sandstone Reservoir, Upper Rhine Graben, Soultz, France
S. Haffen* (University of Lorraine - GéoRessources), Y. Geraud (University of Lorraine - GéoRessources), **M. Diraison** (University of Strasbourg), C. Dezayes (BRGM), D. Siffert (KIDOVA) & M.H. Garcia (KIDOVA)
- Amine Ourabah - *Anisotropic Parameter Estimation - Theory* session — Tu 13:55
G103 10 Orthorhombic Extension to HTI Velocity Analysis - Theory and Application to a High Density Acquisition
C.M. Davison* (CGG), M.J. Grimshaw (CGG), E.M. Murray (CGG), M. Kowalczyk-Kedzierska (CGG), S. Angio (CGG) & **A. Ourabah** (BP)
- Katia Garceran - *Decon, Deghost and Much More* session — Tu 14:20
E103 11 Surface-consistent Residual Phase Corrections
K. Garceran* (CGG)
- Jérémie Giraud - *EM Inversion* session — Tu 14:20
E108 11 Time Domain EM Soundings for the Delineation of the Fresh Water - Salt Water Interface in Eastern Canada Islands
J. Giraud* (Schlumberger Geosolutions), M. Chouteau (Ecole Polytechnique de Montreal) & A. Bouchedda (Institut National de la Recherche Scientifique)
- Lucas Pimienta - *CO2 Rock Physics and Chemistry* session — Tu 14:20
G107 11 Experimental Evidence of Calcite Dissolution and Induced Precipitation during supercritical CO2 Residence
L. Pimienta* (ENS, Géologie), L. Esteban (CSIRO-ESRE), J. Sarout (CSIRO-ESRE), K. Liu (CSIRO-ESRE), C. Delle Piane (CSIRO-ESRE) & B. Clennell (CSIRO-ESRE)
- Sébastien Soulas - *VSP Processing and Imaging* session — Tu 14:20
G102 11 Demonstrating Seismic While Drilling As a Powerful Tool to Reduce Depth Uncertainty During Drilling
R.S.H. Pettersen* (BP), J. Bailey (BP), D. Moody (BP) & **S. Soulas** (BP)
- Marina Lesnes - *Broadband Acquisition and Processing I* session — Tu 15:55
ELI2 14 Increased Streamer Depth for Dual-sensor Acquisition - Challenges and Solutions
M. Lesnes* (PGS), A. Day (PGS) & M. Widmaier (PGS)
- Marc Beller - *AVO-AVA Analysis - Case Histories* session - We 08:30-12:10
Chairman: **M. Beller** - Wintershall Global Support BV, L.M. Barends - Total Exploration & Production Nederland BV
- Patrick Baud, Mike Heap, Thierry Reuschle - *Fluid, Flow and Lithofacies - Characterization on Core and Logging Data* session — We 08:30
G104 01 The Impact of Stylolites on Fluid Flow and Rheology of Porous Carbonates
P. Baud* (University of Strasbourg (EOST)), **M.J. Heap** (University of Strasbourg (EOST)), **T. Reuschlé** (University of Strasbourg (EOST)) & P.G. Meredith (University College London)

- Amine Ourabah - *Wide/Multi-azimuth Acquisition Processing* session — We08:30
ELI1 01 Acquiring and Imaging Ultra High Density Land Seismic Data - Practical Challenges and the Impact of Spatial Sampling
A. Ourabah* (BP), M. Grimshaw (CGG), J. Keggin (BP), M. Kowalczyk-Kedzierska (CGG), J. Stone (BP), E. Murray (CGG), S. Cooper (CGG) & L. Shaw (BP)
- Laurent Sirgue - *Multi-parameter FWI* session — We 08:55
E106 02 FWI-guided Q Tomography for Imaging in the Presence of Complex Gas Clouds
J. Zhou* (CGG), X. Wu (CGG), K. Teng (CGG), Y. Xie (CGG), F. Lefeuvre (Total E&P Malaysia), I. Anstey (Total E&P Malaysia) & **L. Sirgue** (Total France)
- Katia Garceran, Amine Ourabah - *Wide/Multi-azimuth Acquisition Processing* session — We 09:20
ELI1 03 Surface-Consistent Processing of a Full-azimuth Dataset - The Challenges and Solutions
G. Poulain* (CGG), **K. Garceran** (CGG), M. Grimshaw (CGG), D. Le Meur (CGG), E. Murray (CGG), M. Kowalczyk-Kedzierska (CGG), S. Cooper (CGG) & A. Ourabah (BP)
- Antoine Guitton - *Multi-parameter FWI* session — We 09:20
E106 03 On the Velocity-density Ambiguity in Acoustic Full-waveform Inversion
A. Guitton* (Geolmaging Solutions Inc.)
- Isabelle Lecomte, Guillaume Sauvin - *Seismic Acquisition* poster session — We 10:30
P04 05 Shear-wave Reflection-seismic Pilot Study at the UNIS CO2 Lab site, Longyearbyen, Svalbard
I. Lecomte* (NORSAR/Univ. Oslo), U. Polom (LIAG), **G. Sauvin** (NORSAR/Univ. Oslo), B.O. Ruud (Univ. Bergen), H. Christiansen (UNIS/Univ. Copenhagen) & G. Gilbert (Univ. Oslo)
- Alexandre Stopin - *Multi-parameter FWI* session — We 10:55
E106 06 Land Seismic Data Multi-parameter Waveform Inversion
A. Stopin* (Shell Global Solutions International B.V.) & R.E. Plessix (Shell Global Solutions International B.V.)
- Cédric Fayemendy - *4D Seismic in Reservoir Simulation - Closing the Loop* session - We 13:30-17:10
Chairman: **C. Fayemendy** - Statoil ASA, P.J. Hatchell - Shell
- Didier Rappin - *Reservoir Characterization - Unconventional Methods for Unconventional Reservoirs* session - We 13:30-17:10
Chairman: **D. Rappin** - Total, A.J.S. Wilson - BG Group plc
- Risto Siliqi - *Wide-angle / Multi-azimuth Acquisition and Processing* poster session - We 15:30-17:10
Chairman: **R. Siliqi** - CGG, L. Wang - BP
- Isabelle Lecomte - *Geomechanics and Fracture Propagation* session — We 13:30
E104 09 From Geomechanical Modelling to Seismic Imaging of 3D Faults
C. Botter* (University of Stavanger), N. Cardozo (University of Stavanger), S. Hardy (ICREA), **I. Lecomte** (NORSAR), A. Escalona (University of Stavanger), N. Cooke (FFA) & G. Paton (FFA)
- Lucas Pimienta - *Rock Physics Models, Absorption and Anisotropy* session — We 13:55
D203 10 Experimental Investigation of Elastic Weakening Effects from Water Adsorption in Sedimentary Rocks
L. Pimienta* (ENS, Géologie), J. Fortin (ENS, Géologie) & Y. Guéguen (ENS, Géologie)
- Alexandre Stopin - *Multi-parameter FWI* poster session — We 13:55
P01 10 Acoustic Pseudo-density Full Waveform Inversion in the Presence of Hard Thin Beds
D. Borisov* (Institut de Physique du Globe de Paris), **A. Stopin** (Shell Global Solutions International) & R.E. Plessix (Shell Global Solutions International)
- Thibaut Cheret - *Exploration and Fields - Case Histories* session — We 14:20
ELI2 11 West Delta Deep Marine Hydrocarbon Maturation
H. Hasan* (Rashid Petroleum Company), **T. Cheret** (BG Group), A. El Amir (Rashid Petroleum Company), G. Badalini (BG Group) & J. Snijder (BG Group)

- Anne Barnoud, Nicolas Delepine, Patrice Ricarte - *Shale and Tight Reservoirs* session — We 15:30
E103 13 Unconventional Reservoir Characterization with Geomechanical Attributes of Multi-az. Inversion - Barnett Shale Application
M. Adelinet (IFP Energies nouvelles), **A. Barnoud** (ISTerre, Université Joseph Fourier), V. Clochard (IFP Energies nouvelles), **N. Delepine*** (IFP Energies Nouvelles) & **P. Ricarte** (CGG)
- Marie-Louise Navaza - *Joint Inversion Velocity Model Building Methodology* session — We 15:30
E108 13 Cooperative, Structural and Grid-based Simultaneous Joint Inversion for Salt Base and Presalt Imaging
M. Mantovani* (Schlumberger), K. Hokstad (Statoil), S. Trezzi (Schlumberger), **M.L. Navaza** (Schlumberger), K. Duffaut (Statoil), T. Wiik (Statoil), A. Lovatini (Schlumberger) & I. Guerra (Schlumberger)
- Olivia Collet - *Rock Physics Models, Absorption and Anisotropy* session — We 16:45
D203 16 Estimating Azimuthal Stress-induced P-wave Anisotropy from S-wave Anisotropy Measured by VSP
O. Collet (Curtin University) & B. Gurevich* (Curtin University and CSIRO)
- Gabriel Huot - *FWI - Beyond Single-parameter Inversion* session — We 16:45
ELI1 16 Elastic 2D Full Waveform Inversion of Ultra-long Offset Marine Seismic Streamer Data from Sumatra Forearc Basin
G. Huot* (Institut de Physique du Globe de Paris (IPGP)) & S. Singh (Institut de Physique du Globe de Paris (IPGP))
- Patrick Turpin - *Getting the Best of Seismic for Reservoir Characterization* session — Th 08:30
G106 01 Case Study - Use of a Simple Geophysical Attribute -Fast Track Method- for Geological Modeling
T.K. Tyagi* (Total E&P), M.P. Perruchot (Total E&P) & **P. Turpin** (Total E&P)
- Risto Siliqi - *Simultaneous Source Acquisition, Processing and Interpretation* session — Th 10:30
ELI1 05 Blended Dual-source Acquisition and Processing of Broadband Data
G. Poole* (CGG), K. Stevens (CGG), M. Maraschini (CGG), T. Mensch (CGG) & **R. Siliqi** (CGG)
- Pascal Edme - *Seismic Noise Attenuation* session — Th 11:45
D201 08 Efficient Land Seismic Acquisition Sampling Using Rotational Data
P. Edme* (Schlumberger Gould Research), E. Muyzert (Schlumberger Gould Research) & E. Kragh (Schlumberger Gould Research)
- Charles-Antoine Lameloise - *Velocity Analysis - Theory* poster session — Th 11:45
P02 08 Removing Spurious Oscillations in the Gradient of the Differential Semblance Optimization Functional
H. Chauris* (MINES ParisTech) & **C.A. Lameloise** (MINES ParisTech)
- Alexandre Stopin - *FWI - Case Studies* session - Th 13:30-17:10
Chairman: J.K. Washbourne - Chevron Australia Pty Ltd, **A. Stopin** - Shell International E&P BV
- Katia Garceran - *Multi-component Seismic* poster session — Th 13:30
P07 09 Surface-Consistent Amplitude Simultaneous Joint Inversion for PP and PS Data
G. Henin* (CGG), **K. Garceran** (CGG), D. Le Meur (CGG), F. Bertin (CGG) & A. Rollet (CGG)
- Nicolas Chazalnoël - *FWI - Case Studies* session — Th 13:55
E106 10 Building a High-resolution Model with Full Waveform Inversion in Deep Water West Africa
H. Zhu (CGG), **N. Chazalnoel*** (CGG) & W. Zhao (CGG)
- Frédéric Pivot - *Advances in Near Surface Geophysics* session — Th 14:20
G102 11 Integrated Method for Characterizing Gas Shallow Hazards
F. Pivot* (Total), E. Cauquil (Total) & J. Contet (Total)
- Corinne Sagary - *Seismic Acquisition II* session — Th 14:45
ELI2 12 Variable-Depth Streamer Survey Design and Seismic Modelling - Martin Linge Case Study
C. Sagary* (CGG), J. Morante-Gout (Total), G. Mikkelsen (Total) & P. Dervieux (CGG)

Alexandre Bertrand - *FWI - Case Studies* session — Th 15:30

E106 13 Full Waveform Inversion - A North Sea OBC Case Study - Reloaded

A. Ratcliffe (CGG), G. Conroy (CGG), V. Vinje* (CGG) & **A. Bertrand** (ConocoPhillips)

Charles-Antoine Lameloise - *Velocity Analysis — Theory* session — Th 15:30

G103 13 Quantitative Migration for a More Robust Migration Velocity Analysis

C.A. Lameloise* (MINES ParisTech) & H. Chauris (MINES ParisTech)

Julie Tatat - *Improving Imaging in Complex Area - Case Histories* session — Th 15:30

D201 13 Recent Advances in Sub-BCU Processing and Imaging in the Central North Sea

O.I. Pape* (CGG), P. Fallon (CGG), **J. Tatat** (CGG), F. Varriale (CGG), S. Hollingworth (CGG), B. Duquet (Total),

X. Lu (Total) & E. McManus (Total)

Marie-Laure Bachschmidt - *Applications of Seismic (Time-lapse) Interferometry* session — Th 15:55

E102 14 Treating Active Data As Noise - Low-frequency Surface Wave Inversion Using SPAC

W. Kimman* (Schlumberger PTS), I. Barone (IPGP, Schlumberger PTS), **M. Bachschmidt** (EOST, Schlumberger PTS) & P. Vermeer (Schlumberger PTS)

Antoine Guitton - *FWI - Case Studies* session — Th 15:55

E106 14 Improved Imaging in the Santos Basin with Full Waveform Inversion

O.H. Kirstetter* (Repsol Sinopec Brasil) & **A. Guitton** (Geoimaging Solutions Inc.)

Maud Cavalca - *Improving Imaging in Complex Area - Case Histories* session — Th 16:20

D201 15 Enhanced 4D Imaging in West Africa Using High-resolution Tomography and Q-imaging

J. Penwarden* (Schlumberger), **M. Cavalca** (Schlumberger), A. King (formerly with Hess), S. Knapp (Hess),

X. Meng (Hess) & S. Mondziel (Hess)

Aurélien Mordret - *Applications of Seismic (Time-lapse) Interferometry* session — Th 16:20

E102 15 Passive Time-lapse of Valhall Subsurface From Correlation of Ambient Seismic Noise

A. Mordret* (Institut de Physique du Globe de Paris (IPGP)), N.M. Shapiro (Institut de Physique du Globe de Paris), S. Singh (Institut de Physique du Globe de Paris) & P. Roux (ISTerre, Grenoble)

Lucas Pimienta - *Rock Physics Models* poster session — Th 16:20

P07 15 Measured Dispersion and Attenuation Effects on the Bulk Modulus of Fully-saturated Sedimentary Rocks

L. Pimienta* (ENS, Géologie), J. Fortin (ENS, Géologie) & Y. Guéguen (ENS, Géologie)

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