



**STANFORD EXPLORATION PROJECT PRESENTATIONS
SOCIETY OF EXPLORATION GEOPHYSICISTS IMAGE 2022**

Monday, August 29, 2022

Presenter: Biondo Biondi

Co-Author: Joseph Jennings, Min Jun Park, Stuart Farris, and Bob Clapp

Presentation Title: Integration of Deep Neural Networks into Seismic Workflows for Low Carbon Energy

Session Title: SS 1 Latest Advancement in Machine Learning for Geoscience - Part 1

Time: TBD

Poster Presenter: Júlio Oliva Frigério

Co-Author: Biondo Biondi

Presentation Title: Tomographic Waveform Inversion (TWI) Applied to Real Seismic Data

Session Title: Methods 1 / Session ID: FWI P1

Time: 1:20 PM

Poster Presenter: Joseph Stitt

Co-Author: Adam Shugar, Rachael Wang

Presentation Title: Identifying Geologic Facies Through Seismic Dataset-To-Dataset Transfer Learning Using Convolutional Neural Networks

Session Title: Seismic Interpretation 1

Time: 1:45 PM

Presenter: Milad Bader

Co-Author: Robert G. Clapp, Biondo Biondi

Presentation Title: Moment Tensor Inversion of Perforation Shots Using DAS

Session Title: DAS 3: Innovative Applications

Time: 3:40 PM

Tuesday, August 30, 2022

Presenter: Min Jun Park

Co-Author: Joseph Jennings, Bob Clapp, and Biondo Biondi

Presentation Title: Realistic Synthetic Data Generation Using Neural Style Transfer: Application to Automatic Fault Interpretation

Session Title: MLDA 6 Seismic Interpretation 3

Time: 10:20 AM

Wednesday, August 31, 2022

Presenter: Shuki Ronen

Co-Author: Shuki Ronen*, Thibaut Allemand, Stéphane Laroche, Philippe Herrmann, Hamish Macintyre, Maksym Kryvohuz, and Guido Baetan

Presentation Title: Joint Designature of Data with Diversity of Sources

Session Title: ACQ 2 - Acquisition and Survey Design - Marine Acquisition 2

Time: 11:10 AM

Presenter: Bob Clapp

Co-Author: Paige Given, Fantine Huot, Ariel Lellouch, Bin Luo, Robert G. Clapp*, Biondo L. Biondi

Presentation Title: Automatic Microseismic Event Detection in Downhole DAS Data Through Convolutional Neural Networks: A Comparison of Events During and Post-Stimulation of the Well

Session Title: Novel Applications 2

Time: 11:35 AM



Wednesday, August 31, 2022 (continued)

Presenter: Rahul Sarkar

Co-Author: Biondo Biondi

Presentation Title: Waveform Inversion with The Lippmann-Schwinger Equation Constraint

Session Title: FWI 8

Time: 1:20 PM

Presenter: Stuart Farris

Co-Author: Guillaume Barnier, Bob Clapp

Presentation Title: Deep Ensemble Learning to Reconstruct Accurate Low Wavenumber Starting Models For FWI

Session Title: PCW-7 Machine Learning Applications in Seismic Imaging And FWI

Time: 2:05 PM

Thursday, September 1, 2022

Presenter: Milad Bader

Co-Author: Peiyao Li, Biondo Biondi, Ge Jin

Presentation Title: Modeling the Effects Of Hydraulic Fractures On Tube Waves Generated By Perforation Shots and Recorded By A DAS Fiber

Session Title: Workshop W-2: Hydraulic Fracturing and Microseismic Monitoring

Time: 2:05 PM

Presenter: Bob Clapp

Co-Author: N/A

Presentation Title: A New Wave of Accelerators?

Session Title: W-17: What's Next for FWI and Its Derived Products?

Time: TBD