

First EAGE Workshop on Optimizing Project Turnaround Performance

FINDING SOLUTIONS TO SIGNIFICANTLY ACCELERATE SUBSURFACE DATA DELIVERY

23-24 FEBRUARY 2021 • ONLINE

• **Technical Programme**

SHEARWATER

TECHNICAL PROGRAMME

Oral Presentations | Tuesday 23 February

DAY 1	
12:00	Introduction to the workshop
The Future in the Cloud	
12:10	Keynote: Leveraging Technology to Drive a Step Change in Project Performance - S. Ashley ^{1*} , ¹ The OGTC
12:40	Making the Most of the Cloud - Hyperscale computing for seismic imaging workloads - P. Witte ^{1*} , R. Chandra ¹ ¹ Microsoft
13:00	Cloud for faster, better and increased project confidence. - M. Skinner ^{1*} ¹ Shearwater
13:20	End to End Seismic Processing Cycle Time Reduction Using Cloud Native Technologies - S. Tadepalli ^{1*} , P.Y. Aquilanti ¹ , M. Hugues ¹ , J. Venkatesh ¹ , M. Koop ¹ ¹ AWS
13:40	Joint Q&A Session
14:10	Coffee break
Pragmatic Approaches and Machine Learning	
14:20	The Role of Machine Learning in Cycle-time Reduction of Seismic Projects - Y. Zheng ^{1*} ¹ BP
14:40	Robot Butlers, Flying Cars, Automated Seismic Processing and Imaging – How near are we? - J. Brittan ^{1*} , R. O'Driscoll ¹ , J. Walpole ¹ , Y. Cobo ¹ ¹ ION
15:00	Deep Learning Techniques Revolutionize E&P – Two practical applications - C. Jaikla ^{2*} , E. Alkan ³ , C. Sutton ³ , Y. Cai ³ , S. Mannava ¹ , A. Gala ⁴ , P. Devarakota ⁴ , D. Knott ⁴ , L. Chernis ⁴ , H. Badat ⁴ , G. Madiba ³ , D. Segonds ⁴ , D. Hohl ⁴ ¹ Shell India Markets Pvt. Ltd.; ² Stanford University; ³ Shell Exploration & Production Company; ⁴ Shell Global Solutions US Inc.
15:20	Can Data Analytics Help Reduce Seismic Processing Turnaround - T. Martin ^{1*} , S. Butt ¹ , A. Long ¹ ¹ PGS
15:40	Joint Q&A Session
16:10	End of Day 1

Oral Presentations | Wednesday 24 February

DAY 2	
12:00	Introduction
Advanced Inversion Algorithms	
12:10	Keynote: From Acquisition to Final PSDM Volume in Days via Full-bandwidth FWI - M. Warner ^{1*} , T. Kalinicheva ¹ , F. Mancini ² , H. Debens ² ¹ Imperial College London; ² Woodside Energy
12:40	From Acquisition to First Image with Full Waveform Inversion - D. Vigh ^{1*} , X. Cheng ¹ , K. Jiao ¹ , R. Bloor ¹ ¹ Schlumberger
13:00	Seismic Processing - What is required? - T. Martin ^{1*} , Ø. Korsmo ¹ , N. Chemingui ¹ ¹ PGS
13:20	Accurate Velocities and Reduced Cycle Times from Cloud-enabled Full Waveform Inversion Using XWI (AWI and RWI) - T. Nangoo ^{1*} , N. Shah ¹ , T. Lin ¹ , A. Umpleby ¹ , C. Manuel ² , M. Warner ¹ ¹ S-Cube; ² Chevron
13:40	Joint Q&A Session
14:10	Coffee break
Parallel Tasks in the Project Life Cycle	
14:20	Seismic Data Compression Impact on Quality and Near Realtime Data Transfer Impact on Delivery - E. Lewis ^{1*} , M. Lange ¹ , E. Hodges ¹ ¹ PGS
14:40	'Race-track' Depth Imaging; A case study from the Campos Basin - P. Karalis ^{1*} , R. Bartlett ¹ ¹ Shearwater GeoServices
15:00	Lossy Compression for Faster Gradients - N. Kukreja ^{1*} ¹ Imperial College London
15:20	Narrowing the Gap between Geophysics and Production-grade HPC Software - G. Gorman ^{1*} ¹ Imperial College London
15:40	Joint Q&A Session
16:10	Feedback & Closing remarks
16:30	End of Workshop

*Presenter