

POSTCONVENTION WORKSHOP

W-15: Seismic Signal Processing in the AI Era: Integration or Replacement?

George R. Brown Convention Center, Room 372C

Start	Stop	Presentation	Speaker	Affiliation
8:30 AM	8:35 AM	Introduction	Organizers	
8:35 AM	9:00 AM	Interpretable Phase Attributes for Hybrid DSP-AI Seismic Workflows	Akshika Rohatgi	UT Austin
9:00 AM	9:25 AM	Bridging the Gap between Physics and AI: Accelerating Seismic Processing with ML-Seeded Inversion and Physics-Based Velocity Estimation	Mark Roberts	TGS
9:25 AM	10:00 AM	Structured AI Integration for Scalable, Production-Ready Seismic Processing	Khaled Al Dulaijan	Aramco
10:00 AM	10:05 AM	Break		
10:05	10:25	AI/ML in the world of publication	Joakim Blanch	Woodside
10:25	10:50	Hybrid AI-physics seismic processing: leveraging AI while honoring the past 50 years of geophysical processing	Matteo Ravasi	Shearwater
10:50	11:15	Role of Artificial Intelligence in oil & gas for subsurface workflows	Aria Abubakar	SLB
11:15	11:40	AI/ML as a QC Agent for DSP: Lessons Learned and a Hybrid Path Forward	Shuzhen Ye	Shell