

Texas Consortium for Computational Seismology

Fall 2017 Bi-Annual Research Meeting

AGENDA

Monday, October 16, 2017		
8:00–8:30	Coffee and pastries	
8:30–9:00	Sergey Fomel	Introduction
9:00–12:00	Morning session: <i>Full Waveform Inversion</i>	
	Zhiguang Xue Björn Engquist Yunan Yang Harpreet Kaur	Regularization strategies for FWI and LSRTM Review of optimal transport Full waveform inversion using optimal transport Seismic imaging in stratigraphic coordinates
12:00–1:00	Lunch	
1:00–5:00	Afternoon session: <i>Machine Learning</i>	
	Sergey Fomel Sarah Greer Xinming Wu Yunzhi Shi Philipp Krähenbühl Antoine Guitton (DUG) Yangkang Chen (ORNL)	Applications of data matching Data matching using smoothing filters Optimal-path picking of salt and faults Deep learning for salt picking Deep learning for image analysis Deep learning for fault picking Machine learning and global tomography
5:30–8:30	Wine reception and dinner at Clay Pit Restaurant	

Tuesday, October 17, 2017		
8:00–8:30	Coffee and pastries	
8:30–12:00	Morning session: <i>Seismic Interpretation</i>	
	Xinming Wu Zhiguang Xue Yunzhi Shi Sean Bader Karl Schleicher	Multi-grid least-squares horizon picking Pattern-based predictive painting Predictive painting and geological distance Well-log prediction by multiple well-log correlation Sweetwater dataset and 2017 working workshop
12:00–1:00	Lunch	
1:00–3:00	Afternoon session: <i>Geometric Imaging</i>	
	Dmitrii Merzlikin Luke Decker Lihui Chai (UCSB)	Diffraction imaging and anisotropy continuation Diffraction imaging and dip-angle gathers Applications of frozen Gaussian beams

The meeting location is Room 6.304, Peter O'Donnell Building (POB) on the University of Texas at Austin main campus, 201 E 24th Street, Austin, TX 78712.

The dinner location is Clay Pit, 1601 Guadalupe Street, Austin, TX 78701.