

# Texas Consortium for Computational Seismology

## *Sixteenth Bi-Annual Research Meeting*

Monday, November 5, 2018		
8:00–8:30	Coffee and pastries	
8:30–9:00	Sergey Fomel	Introduction
9:00–12:00	Morning session: <i>Seismic Data Analysis</i>	
	Zhicheng Geng Yuhan Sui (HIT) Ben Gremillion Ye Feng Dmitrii Merzlikin Karl Schleicher	Enhancing the seislet transform New approaches to seismic deconvolution Improving resolution in seismic imaging Processing 3D high-resolution seismic data Challenges in processing passive seismic data Working workshops
12:00–1:00	Lunch	
1:00–5:00	Afternoon session: <i>Imaging and Inversion</i>	
	Bjorn Engquist Luke Decker Sergey Fomel Ruben Martinez (RG)	New developments in full waveform inversion Anisotropic velocity analysis Anisotropic parameterizations and multiscale flattening New developments in depth imaging
5:30–8:30	Wine reception and dinner at Maggiano's	

Tuesday, November 6, 2018		
8:00–8:30	Coffee and pastries	
8:30–11:00	Morning session: <i>Deep Learning</i>	
	Yunzhi Shi Nam Phan Harpreet Kaur Yangkang Chen (ZJU) Zhao Zhang (TACC)	Deep learning for seismic interpretation Generative adversarial networks Application of GANs in seismic imaging and inversion Machine learning for passive seismic data Deep learning and HPC at TACC
12:00–1:00	Lunch	
1:00–3:00	Afternoon session: <i>Tutorial</i>	
	Yunzhi Shi	Tutorial on software tools for machine learning

The meeting location is Room ROC 1.603, Texas Advanced Computing Center (TACC) J.J. Pickle Research Campus, Building 196, 10100 Burnet Road (R2200), Austin, TX 78758

The dinner location is Maggiano's  
10910 Domain Drive, Suite 100, Austin, TX 78758