

# Texas Consortium for Computational Seismology

*Eighth Bi-Annual Research Meeting*

## AGENDA

Monday, November 3, 2014		
8:30–9:00	Coffee and pastries	
9:00–9:15	Eric Potter (BEG)	Welcome from BEG
9:15–9:45	Sergey Fomel	Introduction
9:45–12:00	Morning session: <i>Attenuation and High-Performance Computing</i>	
	Tieyuan Zhu Karl Schleicher Melyssa Fratkin (TACC)	Viscoelastic modeling and imaging Open data and Madagascar Working Workshop Tour of Texas Advanced Computing Center
12:00–1:00	Lunch	
1:00–5:00	Afternoon session: <i>Local attributes</i>	
	Sergey Fomel Yangkang Chen Parvaneh Karimi Yawen He Hejun Zhu Brittany Froese	Review of local attributes Noise attenuation by local orthogonalization Image-guided well-log interpolation Seismic chronostratigraphy Misfit functions in FWI Recent developments in optimal transport
5:30–8:30	Wine reception and dinner at Maggiano's	

Tuesday, November 4, 2014		
8:30–9:00	Coffee and pastries	
9:00–12:00	Morning session: <i>Full Waveform Inversion</i>	
	Lexing Ying (Stanford) Björn Engquist Ben Crestal Pranav Karve Arash Fathi	Recent developments in fast Helmholtz solvers Analysis of sweeping preconditioning Optimal source encoding as optimal design Inverse source problems for wave focusing FWI in 3-D PML-truncated domains
12:00–1:00	Lunch	
1:00–3:30	Afternoon session: <i>Reverse-Time Migration</i>	
	Junzhe Sun Zhiguang Xue Yanadet Sripanich Jiubing Cheng (Tongji)	Lowrank one-step wave propagation and LSRTM LSRTM with shaping regularization Anelliptic approximations in orthorhombic media Elastic wave mode separation and RTM

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