

# Texas Consortium for Computational Seismology

## *Ninth Bi-Annual Research Meeting*

Monday, March 23, 2015		
7:30–8:00	Coffee and pastries	
8:00–8:30	Sergey Fomel	Introduction
8:30–12:00	Morning session: <i>Seismic Data Analysis</i>	
	Parvaneh Karimi Ryan Swindeman Mason Phillips Yankang Chen Mark Lai Karl Schleicher	Seismic interpretation using predictive painting Data regularization using plane-wave shaping Plane-wave Sobel attribute Double-sparsity seislet decomposition Time-power correction algorithm Update on open data and working workshop
12:00–1:00	Lunch	
1:00–5:00	Afternoon session: <i>Velocity Analysis</i>	
	Sergey Fomel Dmitry Mezlikin Kelly Regimbal Yanadet Sripanich Yangkang Chen WenZhan Song (Georgia State)	Advances in time-domain imaging Path-integral diffraction imaging Improving resolution of NMO stack 3D generalized moveout approximation Velocity analysis using local similarity Real-time imaging with sensor networks
5:30–8:30	Wine reception and dinner at Ephesus Mediterranean Grill	

Tuesday, March 24, 2015		
7:30–8:00	Coffee and pastries	
8:00–12:00	Morning session: <i>Full Waveform Inversion</i>	
	Björn Engquist Brittany Froese Yunan Yang Christina Frederick (Georgia Tech) Hejun Zhu Zhiguang Xue Nick Alger	Review of recent developments Wasserstein distance Convexity of Wasserstein distance Multiscale inversion  Local matching objective function for FWI Seislet regularization for FWI Augmented-Lagrangian Hessian preconditioning
12:00–1:00	Lunch	
1:00–3:00	Afternoon session: <i>Reverse-Time Migration</i>	
	Tieyuan Zhu Junzhe Sun Zhiguang Xue	Review of seismic attenuation Attenuation compensation in RTM and LSRTM RTM interpolation using time-shift gathers

The meeting location is Embassy Suites – Energy Corridor, Grand Texas BC room  
11730 Katy Fwy, Houston, TX 77079.

The dinner location is Ephesus Mediterranean Grill, 510 S Mason Rd, Katy, TX 77450.