

Texas Consortium for Computational Seismology

Fifth Bi-Annual Research Meeting

Monday, March 25, 2013		
8:00–8:30	Coffee and pastries	
8:30–8:45	Eric Potter	Welcome from BEG
8:45–9:30	Sergey Fomel	Introduction and computational reproducibility
9:30–12:00	Morning session: <i>Imaging Faults and Fractures</i>	
	Alexander Klokov	Imaging diffractions one dip at a time
	Luke Decker	Diffraction imaging examples
	Parvaneh Karimi	Predictive coherence
	Mehdi Far	AVOAz inversion – Marcellus shale example
12:00–1:00	Lunch	
1:00–5:00	Afternoon session: <i>Full Wave Imaging</i>	
	Jiubing Cheng (Tongji U)	Fast algorithms for elastic-wave-mode separation
	Gang Fang (CUP)	Lowrank wave extrapolation on a staggered grid
	Junzhe Sun	Lowrank one-step wave extrapolation
	Sergey Fomel	Coordinate systems for seismic imaging
	Siwei Li	Robust time-to-depth conversion
5:30–8:30	Wine reception and dinner at Rattan Pan Asian Bistro	

Tuesday, March 26, 2013		
8:00–8:30	Coffee and pastries	
8:30–12:00	Morning session: <i>Full Wave Inversion</i>	
	Björn Engquist	Multiscale wave propagation
	Christina Frederick	Multiscale wave propagation and inverse problems
	Siwei Li	WEMVA by non-stationary focusing
	William Symes (Rice)	Stable objective functions for velocity inversion
	Loukas Kallivokas	Inverse source and inverse medium problems with applications to EOR and site characterization
12:00–1:00	Lunch	
1:00–5:00	Afternoon session: <i>Fast Algorithms</i>	
	Lexing Ying (Stanford)	Fast algorithms for Fourier integral operators
	Jack Poulson (Stanford)	Parallel butterfly algorithm
	Jingwei Hu	Fast anisotropic velocity scan using 3-D butterfly
	Yangkang Chen	Iterative deblending of seismic data using shaping regularization in the seislet domain
	Yanadet Sripanich	Fast ray tracing in a layered medium

The meeting location is BEG Houston Research Center, 11611 West Little York Road, Houston, TX 77041.

The dinner location is Rattan Pan Asian Bistro, 1396 Eldridge Parkway, Houston, TX 77077.