

Texas Consortium for Computational Seismology

First Annual Research Meeting

Thursday, March 17, 2011		
8:00–8:30	Coffee and pastries	
8:30–9:00	Sergey Fomel	Introduction
9:00–12:00	Morning session: Field Data Processing	
	William Burnett Vladimir Bashkardin Parvaneh Karimi Karl Schleicher	Multiazimuth velocity analysis using velocity-independent imaging Prestack time migration on GPUs Seismic interpretation using natural coordinates Processing open-access seismic data using open-source geophysical software
12:00–1:00	Lunch	
1:00–4:30	Afternoon session: High-frequency Wave Propagation	
	Bjorn Engquist Nick Tanushev Siwei Li	High-frequency wave propagation review Wave propagation and Gaussian beams Applications of the linearized eikonal General discussion
5:00–6:00	Wine reception at Red Onion	
6:00–8:00	Dinner at Red Onion	
Friday, March 18, 2011		
8:00–8:30	Coffee and pastries	
8:30–8:45	William Beckner	Welcome from ICES
8:45–12:00	Morning session: Fast Algorithms for Full Wave Imaging	
	Lexing Ying Jack Poulson Xiaolei Song Tariq Alkhalifah (KAUST)	Fast Helmholtz solvers Fast algorithms for FIO operators Seismic wave extrapolation by FFD and low-rank approximation Prestack exploding reflector migration
12:00–1:00	Lunch	
1:00–3:30	Afternoon session: Inverse Problems	
	Sergey Fomel Christina Frederick Jun Ji (Hansung University)	Shaping regularization Inversion for microstructure Robust inversion using bi-weight norm General discussion

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

The dinner location is Red Onion Mexican Grill,
1111 Eldridge Parkway, Houston, TX 77077.