Texas Consortium for Computational Seismology

Second Biannual Research Meeting

Monday, September 26, 2011		
8:00–8:30	Coffee and pastries	
8:30–9:30	Welcome	
	J. Tinsley Oden	Welcome from ICES
	Eric Potter	Welcome from BEG
	Sergey Fomel	Introduction
9:30–12:00	Morning session: Seismic Data Processing	
	Alexander Klokov	Seismic diffraction imaging
	Parvaneh Karimi	Stratigraphic coordinates
	Sergey Fomel	Local slope as a universal attribute
	Karl Schleicher	Open-source geophysical software
12:00–1:00	Lunch	
1:00–4:30	Afternoon session: Frequency-Domain Wave Propagation	
	Björn Engquist	Fast preconditioners for the Helmholtz equation
	Paul Tsuji	High-order solver for the Helmholtz equation
	Jack Poulson	Parallel sweeping preconditioner
	Richard Tsai	Inverse source problem for the Helmholtz equation
	Alexey Stovas (NTNU)	Low-frequency extension of the Backus averaging
5:30–8:30	Wine reception and dinner at Clay Pit	
Tuesday, September 27, 2011		
8:00–8:30	Coffee and pastries	
8:30–8:900	Sergey Fomel	Introduction
9:00–12:00	Morning session: High-frequency Wave Propagation	
	Björn Engquist	Recent developments in Gaussian beams
	Siwei Li	Complex eikonal equation
	Lexing Ying	Multiscale Gaussian beams
	Vladimir Bashkardin	The oriented wave equation
	Alex Vladimirsky (Cornell University)	Computing multi-valued traveltimes using the invariant manifold approach
12:00–1:00	Lunch	
1:00–4:30	Afternoon session: Fast Algorithms and Inverse Problems	
	Lexing Ying	Fast algorithms for oscillatory integrals
	Haizhao Yang	Fast computation of multilinear operators
	Jingwei Hu	Fast preconditioner for normal operators
	Kiu Ren	Theormoacoustic tomography
	Xiaolei Song	Lowrank finite differences

The meeting location is ICES, Room ACE 6.304, 201 E 24th Street, Austin, TX 78712.
The dinner location is Clay Pit, 1601 Guadalupe Street, Austin, TX 78701.