Texas Consortium for Computational Seismology

Fourth Bi-Annual Research Meeting
Agenda

Monday, November 12, 2012		
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: *Diffraction Imaging*	
	Alexander Klokov	Diffraction imaging in the dip-angle domain
	Salah Al-Hadab	Diffraction imaging in Canterbury
	Parvaneh Karimi	Volumetric curvature using predictive painting
	Luke Decker	Diffraction imaging of carbonate reservoir models
	Chris Hempel (TACC)	TACC overview and tour
12:00–1:00	Lunch	
1:00–5:00	Afternoon session: *Wave Modeling*	
	Lexing Ying	Review of fast sweeping preconditioners
	Jack Poulson	Fast parallel 3-D Helmholtz solvers
	Xiaolei Song	Fourier finite differences and lowrank finite differences
	Jiubing Cheng (Tongji U)	Anisotropic wave mode separation
	Junzhe Sun	Lowrank wave propagation of anisotropic wave modes
5:30–8:30	Wine reception and dinner at Maggiano's	

Tuesday, November 13, 2012		
8:00–8:30	Coffee and pastries	
8:30–12:00	Morning session: *Inverse Problems and Data Analysis*	
	Laurent Demanet (MIT)	Interferometric waveform inversion
	Jingwei Hu	Fast butterfly algoritm for non-stationary Radon
	Rachel Ward	Compressed sensing and sparse signal recovery
	Haizhao Yang	Synchrosqueezed wave packet transform
	James Martin	Computational Bayesian inverse problems
12:00–1:00	Lunch	
1:00–4:00	Afternoon session: *High-frequency Waves*	
	Bjorn Engquist	Gaussian beams and complex eikonal equation
	Vladimir Bashkardin	Phase-space traveltime computations
	Siwei Li	Kirchhoff migration with source derivatives
	Xu Yang (UCSB)	Frozen Gaussian beams
	Alexey Stovas (NTNU)	Moveout mappings in TTI media

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