

Texas Consortium for Computational Seismology

Sixth Bi-Annual Research Meeting

Monday, September 30, 2013		
8:30–9:00	Coffee and pastries	
9:00–9:15	Robert Moser	Welcome from ICES
9:15–9:45	Sergey Fomel	Introduction
9:45–12:00	Morning session: <i>Imaging Faults and Fractures</i>	
	Vladimir Bashkardin	3-D multi-arrival Kirchhoff migration
	Luke Decker	Comparison of diffraction imaging methods
	Parvaneh Karimi	Novel seismic attributes
	Mehdi Far	Fracture detection using multicomponent data
12:00–1:00	Lunch	
1:00–5:00	Afternoon session: <i>Time-Domain Imaging</i>	
	Karl Schleicher	Data processing on Stampede
	Siwei Li	Time-to-depth conversion and velocity estimation
	Jingwei Hu	Quasi-random choice method for Liouville PDE
	Sergey Fomel	Oriented velocity continuation
	Alexey Stovas (NTNU)	Generalized moveout approximation
5:30–8:30	Wine reception and dinner at Clay Pit Restaurant	
Tuesday, October 1, 2013		
8:30–9:00	Coffee and pastries	
9:00–12:00	Morning session: <i>Full-Wave Modeling and Imaging</i>	
	Björn Engquist	Remarks on preconditioning and Wasserstein metric
	Brittany Froese	Wasserstein metric and the Monge-Ampere equation
	Junzhe Sun	One-step lowrank wave extrapolation
	Gang Fang (CUP)	Staggered-grid lowrank finite differences
	Jiubing Cheng (Tongji)	Elastic wave-mode separation and elastic RTM
12:00–1:00	Lunch	
1:00–3:30	Afternoon session: <i>Inverse Problems</i>	
	Hejun Zhu	Seismic wavefield tomography in global seismology
	Yangkang Chen	Iterative deblending of simultaneous-source data
	Pengliang Yang (Xi'an Jiaotong)	Iterative half-thresholding for data interpolation
3:30–4:30	Stanley Osher (UCLA)	What sparsity and L_1 minimization can do for you
	<i>Already in 1973 Claerbout and Muir realized that L_1 norm is a powerful estimator in exploration seismology when the data is noisy or the model is sparse. At that time there were no fast numerical L_1 algorithms that could compare with the L_2 techniques. Progress during the last few years has changed that picture. Professor Osher has been leading this remarkable development in L_1-based minimization, exploration of sparsity, and image processing.</i>	

The meeting location is Room 6.304, Peter O'Donnell Building (POB) on the University of Texas at Austin main campus, 201 E 24th Street, Austin, TX 78712.

The dinner location is Clay Pit, 1601 Guadalupe Street, Austin, TX 78701.