Schedule of Texas PDE 2008 Saturday, April 5, 2008 (All talks in Academic Building A405)

Time	Speaker	Title
8:30-8:45	Opening remarks	
8:45-9:05	Shishen Xie	An approach for solving a nonlinear integro-differential equation
9:10-9:30	Lokenath Debnath	Initial value problems of generation and propagation of waves in a rotating fluid
9:35–9:55	Goong Chen	The time variable as the dependent variable for the diffusion equation
10:00-10:20	Jianxin Zhou	Some mathematical theory on computing multiple solutions to non-cooperative differential systems
10:25-10:45	Prabir Daripa	Diffusive slowdown of instabilities in three-layer Hele-Shaw flows with viscosity gradient
10:50-11:10	Jianzhong Wang	Diffusion PDE associated with bilateral filter
11:15-11:35	John Alford	Stimulated unidirectional propagation in heterogeneous excitable media
11:40-12:00	Roy Ranadhir	Ill-posed inverse problems in molecular imaging
12:05-13:25	Lunch break	
13:30-13:50	Lijian Jiang	Mixed multiscale finite element methods on adaptive unstructured grids using limited global information
13:55-14:15	Xianjin Chen	A framework for computing multiple saddle points to strongly indefinite functionals
14:20-14:40	Zhijun Qiao	<i>r</i> -matrix structures of integrable systems
14:45-15:05	Dambaru Bhatta	Computation of the second order dynamic force component on a vertical cylinder due to wave diffraction
15:10-15:30	Baofeng Feng [†] & Kenichi Maruno	A short pulse equation: loop, breather solitons and integrable semi-discretization
15:35-15:55	Fengxin Chen	Traveling waves for system of nonlocal evolution equations with bistable nonlinearity
16:00-16:20	Yan Li	An accurate multiphase upscaling for flow and transport in heterogeneous porous media
16:25-16:45	Katarina Jegdic	Remarks on strong regular reflection for the isentropic gas dynamics equations
16:50-17:10	Nguyen Mau Nam	Generalized differentiation of nonsmooth functions & applications to Hamilton-Jacobi equations in infinite dimensions
17:15-17:35	Zhongxiao Li	The structure of student dialogue in web-assisted mathematics courses
17:40-18:00	Edwin Tecarro [†] & Akif Uzman & Jeong-Mi Yoon	A model of signaling pathways in embryonic Xenopus laevis
18:05-18:25	Youn-Sha Chan	Advanced Material Modeling
19:00-20:00	Dinner Party	

[†] Speaker.