## 36th Annual Texas Partial Differential Equations Conference



The University of Texas at El Paso

El Paso Natural Gas Conference Center UTEP Campus

El Paso, Texas, March 2-3, 2013

Saturday		
8:00 - 8:30	Breakfast	* * * * * at conference venue * * * * *
8:30	Dr. Stephen B. Aley,	Interim Dean, College of Science, UTEP
8:45	Dr. M. Christina Mariani,	Chair, Department of Mathematical Sciences, UTEP
9:00 - 9:20	M. Amine Khamsi	Fixed Point of Nonlinear Semigroups in Modular function spaces
9:25 - 9:45	Eleftherios Gkioulekas	Energy and potential enstrophy flux constraints in quasi-geostrophic models
9:50 - 10:10	Alfonso Castro	Radial singular solutions for a class of elliptic boundary value problems
10:15 - 10:25	Christian Jäh	Recent results about uniqueness and continuous dependence in the
		Cauchy problem for backward-parabolic operators with low-regular co-
		efficients
10:30 - 10:50	Treena Basu	Anomalous Diffusion and a fast methods for fractional diffusion equa-
		tions
10:55 - 11:15	Joe Lakey	Numerical construction of certain bandpass prolates
11:20 - 11:40	Olga Kosheleva and	Cauchy Problem for the Brans-Dicke Scalar-Tensor Theory of Gravita-
	Vladik Kreinovich	tion May Explain Time Asymmetry of Physical Processes
11:45 - 12:05	Goong Chen	Progress in the Mathematical and Computational Study of Wind Turbine
		Flows and Wind Energy
12:10 - 1:35	Lunch	* * * * * at conference venue * * * * *
1:40 - 2:00	Granville Sewell	Solving the KPI Wave Equation with a Moving Adaptive FEM Grid
2:05 - 2:25	Jianxin Zhou	Solving Semilinear Elliptic Eigensolution Problems by an Implicit Min-
		imax Method
2:30 - 2:50	Buthinah Bin Dehaish	Fixed Point of Asymptotic Pointwise Mappings in Hyperbolic Metric
		Spaces
2:55 - 3:15	Daniel Onofrei	On the approximate control of electromagnetic fields
3:20 - 3:40	Toshikazu Kuniya	Analysis for a class of periodic SIS epidemic models with age-structure
3:45 - 4:05	Kanadpriya Basu	Mathematical modeling and computational studies using reaction-
		diffusion-advection system
4:10 - 4:30	Maranda Bean	A Second Order Immersed Interface Method For a 1D Poroelasticity
		Problem with Discontinuous Coefficients
4:35 - 4:55	Behzad Djafari-Rouhani	Asymptotic behavior of solutions to some second order evolution equa-
		tions of monotone type
5:00 - 5:20	Ranadhir Roy	Modeling Blood Flow in a Brain Tumor Treated Concurrently with Ra-
		diotherapy and Chemotherapy
5:25 - 5:45	Lokenath Debnath	Linear and Nonlinear Rossby Waves in Oceans
6:00 - 8:00	Dinner	* * * * * at conference venue * * * * *

Sunday		
8:00 - 8:30	Breakfast	* * * * * at conference venue * * * * *
8:30 - 8:50	Suleyman Tek	Using Korteweg-de Vries Equation to Obtain Surfaces in Three Dimen-
		sional Minkowski
8:55 - 9:15	Shapour Heidarkhani	Non-trivial solutions for systems of n fourth order partial differential
		equations via variational methods
9:20 - 9:40	Taoufik Meklachi	On The Sensitivity of a Meta-Material Slab to an exterior Charge Dis-
		tribution
9:45 - 10:05	Eric Platt	Modelling nonlinear properties and fracture mechanics of Elasto-
		viscoplastic materials by use of an integrity property
10:10 - 10:30	Kamel Tahri	Multiple solutions to singular fourth order elliptic equations
10:35 - 10:55	Andrzej Pownuk	Dynamic methods for parallel solution of nonlinear two phase flow equa-
		tions by using the Finite Difference Method
11:00 - 11:20	Maria Pia Beccar Varela	Stochastic Differential Equations and Levy models
11:25 - 11:45	Indranil SenGupta	Bessel functions and Rainbow Option pricing PDE
	Lunch	* * * * * at conference venue * * * * *