

National Conference on Differential Equations and Applications
February 14-15, 2014
Schedule

Friday 14-02-2014		
Time	Event	
08.30 -09.45 AM	Registration and Break Fast	Venue: Dnyaneshwar Bhavan
10.00-11.00 AM	Inaugural function and Felicitation	Venue: Dnyaneshwar Bhavan
Session I: Invited Talks		
Chairperson: Prof. Jyosthana Prajapat		Venue: Dnyaneshwar Bhavan
Time	Speaker	Title of the Talk
11.15AM- 12.00 Noon	Prof. S. G. Dani	The Exponential Map and Dynamics
12.00Noon-12.45PM	Prof. K. T. Joseph	On Multidimensional Adhesion Model for Large Scale Structures
01.00-02.15 PM	Lunch Break	
Session II (A): Paper Presentations: Dynamics		
Chairperson: Prof. M. V. Manohar		Venue: Dnyaneshwar Bhavan
Time	Speaker	Title of the Talk
02.15-03.15 PM	Prof. M. Saleem	Two predators feeding on the same prey: an extension of Holling-Tanner model
	Mr. Soumen Bera	Biochemical interactions between HIV-1 integrase and reverse transcriptase
	Mr. T. N. Mishra	Solution of time fractional heat conduction equation by compact difference scheme
	Mr. V. S. Sharma	Exact, Superimposed solutions to Rotating Stratified Boussinesq Equations
	Mr. N. B. Potadar	Linear Stability of Burgers System of Conservations Laws
Session II (B): Paper Presentations: Solid Mechanics & Integral Transforms		
Chairperson: Dr. B. S. Desale		Venue: Ranade Bhavan
Time	Speaker	Title of the Talk
02.15-03.15 PM	Ms. Asha Bhave	Quasi-Static Thermal Stresses in a Solid Hemisphere
	Dr. Mithu Bhattacharya	Study on the Stresses along an Elliptic Crack embedded in an Elastic Plate
	Mr. P. H. Munjankar	Non-Homogeneous Problem of Thermoelasticity Due to Surface Heat Source
	Mr. Yogesh Bhalekar	Heat Transfer Analysis of Orthotropic Rectangular Plate Using Integral Transforms
	Ms. Jayashree V. Patil	On Wendroff Type Lemma and Applications

03.15-03.30 PM	Tea Break	
Session III (A): Paper Presentations: Dynamics		
Chairperson: Dr. K. F. Pawar		Venue: Dnyaneshwar Bhavan
Time	Speaker	Title of the Talk
03.30-04.30 PM	Dr. S B Kulkarni	Unsteady Flow of a Viscoelastic Fluid through a Porous Media between Two Impermeable parallel plates under the influence of magnetic field
	Dr. B. N. Prasad	Similarity Solution for Strong Shock in a Density Varying Medium near the Surface of a Star
	Ms. Trisha Sen	Nonlinear Higher Order Solutions for the Dynamics of Viscous Microjets
	Mr. H. P. Salunkhe	Constitutive Equations for MR Fluid Damper
	Dr. Jagan Mohan Jonnalagadda	Nabla Fractional Difference Equations - A Survey
Session III (B): Paper Presentations: Numerical Analysis & Methods		
Chairperson: Dr. J. R. Junghare and Dr. R. M. Pawale		Venue: Ranade Bhavan
Time	Speaker	Title of the Talk
03.30-04.30 PM	Prof. S.Arunachalam	Application of Fast Fourier Transform (Fft) Algorithm in Finite Impulse Response (Fir) Linear Filtering Using MATLAB
	Ms. Shubha Verma	Thermal Stress Analysis of Circular Plate Subjected to Radiative Heat Transfer Using FEM
	Mr. N. R. Dasre	Solution of System of Non-Linear Six Coupled Odes by Adomian Decomposition Method
	Mr. B.B.Pandit	A Numerical Approach to Thermal Stress Analysis Due to Radiation
	Ms. A. S. Shinde	Study of Finite Difference Schemes For Heat Flow Equations

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Saturday 15-02-2014		
Time	Event	
09.00-10.00 AM	Break Fast	Venue: Dnyaneshwar Bhavan
Session I: Invited Talks		
Chairperson: Prof. K. T. Joseph		Venue: Dnyaneshwar Bhavan
Time	Speaker	Title of the Talk
10.00-10.45AM	Prof. G. K. Srinivasan	A Unified Approach to the Integrals of Mellin--Barnes and Hecke
10.45-11.30 AM	Prof. V. D. Sharma	Interaction of a C^1 wave with elementary waves of the Riemann problem for Euler equations of gasdynamics
11.30-11.45	Tea Break	
Session II: Invited Talks		
Chairperson: Prof. R. P. Deore		Venue: Dnyaneshwar Bhavan
Time	Speaker	Title of the Talk
11.45-12.30 PM	Prof. Adimurthi	SBV Regularity for Entropy Solutions for Scalar Conservation Laws in One Spec Dimension
12.30-01.15 PM	Prof. Harish Seshadri	Maximum principles for the Ricci flow
01.15-02.15 PM	Lunch Break	
Session III (A): Paper Presentations: Dynamics		
Chairperson: Dr. V. S. Kulkarni		Venue: Dnyaneshwar Bhavan
Time	Speaker	Title of the Talk
02.15-03.05 PM	Dr. Madhumita Gangopadhyay	Evolution of magnetoacoustic waves in a medium with mixed nonlinearity
	Mr. Mohd. Naheed	An unsteady radial flow of a viscous incompressible fluid in a porous medium over a Contracting sphere
	Ms. Amitha Rao	Advances in Non Linear Gas Dynamic Waves
	Mr. Sachin V. Bedre	Fixed Point Theorems for M-Contraction Type Maps in Partially Ordered Metric Spaces and Applications

Session III(B): Paper Presentations: Numerical Analysis & Methods		
Chairperson: Prof. A. R. Aithal		Venue: Ranade Bhavan
Time	Speaker	Title of the Talk
02.15-03.05 PM	J. Mahipal	On a nine-point scheme for nonlinear diffusion filtering
	Dr. Manoj Kumar	Application of New Fifth-Order Newton-type Iterative Methods in Finite Element Simulation of Nonlinear Elliptic Partial Differential Equations
	Dr. S N Pandey	A Computational Analysis of Friedmann Equation of Einstein Theory for Charged Perfect Fluid
	Walmik D. Patil	A Collocation Code in MATLAB for the boundary value problem in system of non linear ordinary differential equation
03.15-03.30 PM	Tea Break	
Time	Event	
03.30-04.30 PM	Valedictory Function Venue: Dnyaneshwar Bhavan	

- **For Invited Talks: Maximum time for each invited talk will be 35-40 minutes followed by question answer session.**
- **For paper presentations: Maximum time for each presentation will be 10 minutes followed by 2 minutes for question answer session.**

▪ **Venue:**

- **Dnyaneshwar Bhavan: Room no-CEN 95(37-38), Seminar Hall, 2nd floor, Department of Mathematics (Extended), Dnyaneshwar Bhavan, Kalina Campus, University of Mumbai, Mumbai-400 098.**
- **Ranade Bhavan: Room no-257, 2nd floor, Department of Mathematics, Ranade Bhavan, Kalina Campus, University of Mumbai, Mumbai-400 098.**