

# National Conference on Emerging Trends in Physics of Fluids & Solids (NCETPFS – 2016) March 03-04, 2016



Venue: Department of Mathematics, Jadavpur University, Kolkata-700032

Sponsored by DST-PURSE, UGC, DST & NBHM



## Patron

Prof. Suranjan Das, Vice-Chancellor,  
Jadavpur University

## Advisory Committee

Prof. S. Mukhopadhyay, Dean, Faculty of Sc., JU  
Prof. S. Bhattacharyya, Co-ordinator, DST-PURSE, JU  
Prof. J. K. Bhattacharya, Director, HRI, Allahabad  
Prof. K. S. Goswami, Director, CPP-IPR, Assam  
Prof. Phoolan Prasad, IISc, Bangalore  
Prof. B. N. Mandal, ISI, Kolkata  
Prof. G. Biswas, Director, IIT, Guwahati  
Prof. P. Chandra, IIT, Kanpur  
Prof. A. K. Pani, IIT, Bombay  
Prof. A. Sen, IPR, Ahmedabad  
Prof. A. Roy, University of Calcutta  
Prof. R. K. Roychoudhury, ISI, Kolkata  
Prof. A. Chattopadhyay, ISM, Dhanbad

## Tentative list of Invited Speakers

Prof. J. K. Bhattacharyya, Director, HRI, Allahabad  
Prof. S. Iyenger, SINP, Kolkata  
Prof. A. Sen, IPR, Amedabad  
Prof. G. S. Seth, ISM, Dhanbad  
Prof. M. K. Verma, IIT, Kanpur  
Prof. S. Chakraborty, IIT, KGP  
Prof. S. Sundar, IIT, Madras  
Prof. J. Mathew, IISc, Bangalore  
Prof. K. S. Goswami, Director, CPP-IPR, Assam  
Prof. T. Sahu, IIT, Kharagpur  
Prof. S. Gupta, ISM, Dhanbad  
Prof. K. C. Deshmukh, Nagpur University  
Prof. S. K. Tomar, Punjab University  
Prof. P. Chatterjee, Visva-Bharati, Santiniketan  
Prof. S. Das, IIT, BHU

## Important Deadlines

Abstract Submission: 20-02-2016  
Notification of Acceptance: 22-02-2016  
Registration Fee: 25-02-2016



## Call for papers

Original research papers are invited for presentation in the conference. All correspondence (including abstract between 250 and 300 words in **Microsoft Word**) should be made in the following email address: [nctepfs.jumath@gmail.com](mailto:nctepfs.jumath@gmail.com)

## Aims and Objective of the Conference

NCETPFS – 2016 is a continuation of the very successful conferences held in 2013, 2014 and 2015 in this department. The conference aims to provide a forum where the most recent and important developments can be reported and discussed. The most recent innovations, trends and open challenges encountered in the field of applied mathematics, specifically, fluid & solid mechanics and plasma dynamics. It also hopes to stimulate wider academic exchange among experts in these fields of research all over the country. Basic equations of fluid, solid and plasma dynamics are in general non-linear viz., conservation of mass, momentum and energy, each of which is non-linear. So to represent a real world problem of fluid, solid and plasma, it is necessary to model a particular problem with the help of non-linear differential equation. The salient features and draw backs of each model will be discussed from both mathematical and analytical point of view. Therefore, it is appropriate to organize a national conference on this emerging area of applied mathematics, mechanics and physics.

## Areas and Topics to be covered

Emerging Trends in Physics of Fluids & Solids: Classical Fluid and Solid Mechanics, Biomechanics, Computational Fluid Dynamics, Nonlinear Wave Mechanics, Ocean and Coastal Wave Dynamics, Micro- & Nano- fluidics, Magnetohydrodynamics, Plasma Physics, Thermo-elasticity, Fracture Mechanics, Heat Transfer in Solids and Fluids, Problems involving porous media, Fluid Structure Interactions and Multiscale Modeling & Simulation.

## Organizing Secretary

**Prabir Kumar Kundu**  
Department of Mathematics,  
Jadavpur University, Kolkata-700032  
Mobile: 09433415434  
Email: [pkkundu@math.jdvu.ac.in](mailto:pkkundu@math.jdvu.ac.in)

## Joint Convenors

**Anup Bandyopadhyay**  
(Mobile: 09434968204)

**Gopal Chandra Shit**  
(Mobile: 09674839632)

Department of Mathematics,  
Jadavpur University, Kolkata

## Organizing Committee

Goutam Kumar Sen  
Sudeshna Banerjea  
Subhas Chandra Mandal  
Abhijit Lahiri  
Alaka Das  
Sukhendu Kar  
Nilanjana Mahata  
Santosh Biswas

## Registration Fee

### Without accommodation:

Scientists/ Faculty Members: Rs.1500/-  
Research Scholars: Rs.1000/-

### With accommodation:

Scientists/ Faculty Members: Rs.2000/-  
Research Scholars: Rs.1500/-

Due to paucity of funds, participants are requested to arrange their own travel expenses. However, some participants may be given Sleeper class rail fare, if funds available.

Participants are requested to send their appropriate registration fees in the form of Draft in favor of "Registrar, Jadavpur University" payable at Kolkata.