



Conference Report

A Report on a Scientific National Seminar

A national seminar entitled “**Professor M. R. Gupta Memorial Seminar**” was organised by the “Advanced Centre for Nonlinear and Complex Phenomena (Kolkata)” in collaboration with the “Centre for Plasma Studies” of Jadavpur University on Thursday, the 4th August, 2016 at the Seminar Room in the Department of Instrumentation Science, Jadavpur University. The seminar was held to celebrate the 85th birth anniversary of Late Professor M. R. Gupta a noted academician and a former Professor of the Department of Applied Mathematics, University of Calcutta. Professor Gupta was a very dedicated teacher and a brilliant researcher in the field of Mathematical Physics. He had done productive research for more than 50 years, which in itself is a very notable feat. A large number of students obtained their Ph.D. degrees under his caring and able guidance.

The Seminar, which commenced at 10-30 A.M., started with a brief Inaugural Session and garlanding of the portrait of Professor Gupta by his research collaborators and family members. Other participants, including Dr.(Ms.) Purabi Mukherji (Life Member ISEC) paid floral tributes to his portrait.

After a brief tea break, the “M. R. Gupta Memorial Lecture”, was delivered by Professor Kalipada Das, retired Professor of the Department of Applied Mathematics, Calcutta University. Professor Das spoke about Professor M. R. Gupta’s research activities and related matters.

The Technical Session I commenced at 11-45 A. M. and was chaired by eminent mathematician and former Professor of Indian Statistical Institute, Kolkata, Professor R. Roychoudhury. The first invited speaker of the Session was Professor Joydev Chattopadhyay of the Indian Statistical Institute, Kolkata. He spoke on “Some Ecological and Epideiological Issues : Paradoxical or else”. Among other discussions, he also explained a model Dengue menace. The second invited speaker of the Session was Dr. Koushik Ghosh, faculty member, Department of Mathematics, University Institute of Technology, Burdwan. He delivered an interesting lecture on “Memory Analysis, Identification of Governing Process and Investigation of Chaos and Self Organized Criticality in Solar Radio Flux Data”. In his talk, he elaborated and explained how his work dealt with the short memory dynamics of coronal plasma trapped in the magnetic fields overlying active regions and that the governing process appeared to be governed by AR(1) exhibiting chaotic behaviour. He had done this work in collaboration with Dr. Dabirul Islam of the Department of Electronics & Communication Engineering, University Institute of Technology, University of Burdwan. The Session ended at 12-45 P. M.

After the lunch break, the Session II started at 1-30 P.M. This Session was chaired by Professor Rabin Pal, Retired Scientist of the Saha Institute of Nuclear Physics, Kolkata. In

this Session, 5 young researchers presented their research papers. Ms. Sreyasi Banerjee of the Department of Physics, Jadavpur University, spoke on “Ion-acoustic Solitary Waves in Multi-component Plasma with Warm Drifting Ions and Nonthermal Electrons and Positrons”. The second speaker of the Session was Sri Aniruddha Mitra of the Department of Instrumentation Science, University of Jadavpur . He delivered his talk on “Structural and Optical Properties of Dark Matter”. The third presentation was by Ms. Sayanee Jana of the Saha Institute of Nuclear Physics, Kolkata. Her talk was on “Nonlinear Coherent Structures of Alfvén Wave in a Collisional Plasma”. Sri Sourav Pramanik of the Saha Institute of Nuclear Physics, Kolkata was the fourth speaker of the Session. He delivered a lecture on “Effect of Transverse Magnetic Field on the Steady State Properties

of a Plasma Diode”. The fifth and final speaker was Sri Sujoy Biswas of the Department of Mathematics, Deshbandhu College for Girls, Kolkata.

A prize for the best presentation by a young researcher was awarded to Ms. Sayanee Jana of the Saha Institute of Nuclear Physics, Kolkata as per the recommendation of a panel of judges.

The Seminar ended with a formal “Vote of Thanks”. The entire financial support for organizing the Seminar was sponsored by the family members of Late Professor M. R. Gupta. (A few photographs of the seminar are in inside backcover)

Reported by
Purabi Mukherji, ISEC
(Invited speaker in the conference)

Training Programme on Non-Destructive Testing

80 hrs Vocational Training Programme on Non-Destructive Testing (NDT) in Ultrasonic Testing (UT) and Radiographic Testing (RT) was organised by the Student Chapter of the Mechanical Engineering Department, Brainware Engineering College at its Barasat campus on July 12-26, 2016.

The training programme was inaugurated by Prof. M. Bhattacharyya, formerly Head of Department of Mechanical Engineering, Jadavpur University. Prof. M. Bhattacharyya,

in his inaugural speech, explained the NDT process in a lucid manner. He advocated its importance for the employability of the students in the manufacturing sector. “Availability of the skilled human resources should be the key competitive advantage for India” said Prof. Bimal Chaudhuri, Director Projects of Brainware Engineering College. This is the reason behind the department is offering such courses in each summer and winter vacation in its campus.
