

CHEMFEST-2011

(An In-House Symposium of the Department of Chemistry, IIT Kanpur)

Venue: Outreach Auditorium
Date: April 16, 2011(Saturday)

08:50 - 09:00 **Prof. R. N. Mukherjee**, Head, Department of Chemistry
Introductory Remarks

SESSION-I (09:00 AM - 10:30 AM)

CHAIRMAN: **Professor V. Chandrasekhar**

09.00 – 09.30 AM Prof. P. K. Bharadwaj
Metal-Organic Frameworks: Synthesis and Applications

09.30 – 10.00 AM Prof. K. Srihari
The Taxonomy and Anatomy of Highly Excited Molecular Eigenstates

10.00 – 10.15 AM Mr. Jitendra Kumar
Substituent-Driven Silver-Adenine Assemblies

10.15 – 10.30 AM Mr. Amit Rajput
Chemistry of Metal-Coordinated Radicals

10.30 – 10.55 AM **TEA**

SESSION-II (11.00 AM – 12.30 PM)

CHAIRMAN: **Professor Y. D. Vankar**

11.00 – 11.30 AM Prof. S. Sarkar
Functional Modelling of Willstätter's Chlorophyll-Bicarbonate Adduct: Light Energy to Chemical Energy and CO₂ Fixation

11.30 – 12.00 Noon Prof. M. L. N. Rao
New Generation Organometallic Reagents and Coupling Reactions: Triarylbismuths as Atom-Economic Multi-Coupling Organometallic GREEN Reagents in Organic Synthesis

12.00 – 12.15 PM Mr. Vivek K. Yadav
Vibrational Spectral Diffusion and Hydrogen Bond Dynamics in Nonaqueous Systems: An Ab Initio Molecular Dynamics Study

12.15 – 12.30 PM Biswajit Saha
Towards Designer Catalysts

12.30 – 02.00 PM **LUNCH BREAK**

SESSION III (2.15 PM – 3.45 PM)

CHAIRMAN:	Professor P. K. Bharadwaj
02.15 – 02:45 PM	Prof. D. Goswami <i>A Space Time Control Odyssey: Towards the "Final Frontier"</i>
02.45 – 3.15 PM	Prof. R. Gurunath <i>Helical Transitions in Peptides</i>
03.15 – 3.30 PM	Ms. Bani Mahanti <i>Cyclometalated Ir(III) Complexes Containing N-Aryl Picolinamide Ancillary Ligands</i>
03.30 – 3.45 PM	Mr. Arvind Chaudhary <i>Models for the Photosynthetic Reaction Centre: Photophysical Properties of Porphyrin Dimers and Rationalization of Supramolecular Chirality</i>
03.45 – 04.00 PM	HOD <i>Concluding Remarks</i>
04.00 – 06.30 PM	TEA/POSTER SESSION (Outreach Auditorium)

POSTERS:

1. *Microviscosity inside a Nano-Cavity: A Femtosecond Fluorescence Up-Conversion Study of Malachite Green* by Shahnawaz Rafiq, Rajeev Yadav and Pratik Sen
2. *Effect of Sucrose on the Stability of different Domains of HAS* by Rajeev Yadav and Pratik Sen
3. *Biochemical and Biophysical Characterization of N,N-Dimethylformamidase Protein* by Chetan K. Arya and R. Gurunath
4. *A Novel Series of Oxo- and Hydroxo-Bridged Bisiron(III) Porphyrins: Synthesis, Structure and Properties* by Susovan Bhowmik, Sudip Kumar Ghosh, Debangsu Sil and Sankar Prasad Rath
5. *Recent Research in Bera Group* by Tapas Ghatak and J. K. Bera
6. *Spontaneous Formation of H₂ at Rh/Al₂O₃ Interface* by Tushar K. Ghosh and Nisanth N. Nair
7. *An Ab Initio Molecular Dynamics study of the Dynamics of Water in Ion Hydration Shells: Hydrogen Bond Fluctuations and Vibrational Spectroscopy* by Jyoti Roy Choudhuri, Anwesa Karmakar and A. Chandra

8. *Adsorption of Fullerenes on Si(100) Surfaces with Kinks and Steps: A Computational Study Using Quantum and Classical Methods* by Sandip K. Shukla, M. Rana and A. Chandra
9. *Kinetic Monte Carlo Simulations of Growth of Silicon Germanium Thin Films* by Pinku Nath and Madhav Ranganathan
10. *Stereoselective Synthesis of Functionalized Piperidines via a Domino Imino-Aldol-Aza-Michael Reaction Sequence* by Sandipan Halder and Manas K. Ghorai
11. *Asymmetric Imino-aldol Reactions: Memory of Chirality for Chiral Induction* by Y. Nanaji, V. Veerswami and Manas K. Ghorai
12. *Multistep Tandem Reactions via Organocatalysis* by Sauvik Samanta, Subhomoy Das and Manas K. Ghorai
13. *Functional Porous Metal-Organic Frameworks Built Using Rigid Carboxylate Based Linkers* by Prem Lama and Manish Kumar Sharma
14. *Synthesis and Structure Revision of Marine Alkaloid Amathamide D* by Saeed Ahmad and F. A. Khan
15. *Is Delicious Food a Source of Nano Carbon?* Manav Saxena and S. Sarkar
16. *Phosphonate Based Decanuclear Cu(II) Assembly* by Vadapalli Chandrasekhar, Loganathan Nagarajan and Sakiat Hossain
17. *Two-Photon Absorption Studies of a Phosphorus-based Trishydrazone Ligand and Its Metal Complexes* by Vadapalli Chandrasekhar and Prasenjit Bag