CHEMFEST-2009

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

Venue: Outreach Auditorium Date: October 31, 2009 (Saturday)

8:55 - 9:00 **Prof. V. Chandrasekhar**, Head, Department of Chemistry *Introductory remarks*

SESSION I (9:00 - 10:30)

Chairman: Prof. J. N. Moorthy

9:00 - 9:30 Prof. Y. D. Vankar

Development of Newer Methodologies in Carbohydrate Chemistry en route to Some Biologically Important Molecules

9:30 - 10:00 Prof. A. Chandra

Hydration and dynamics of protonic defects in aqueous media

10:00 - 10:15 Ms Dipti Shukla

 S_N 2-Type Ring-Opening of Aziridines and Azetidines: Enantioselective Synthesis of Morpholines and Homologues

10:15 - 10:30 Mr. Tapas Goswami

Simultaneous effect of chirp and polarization on the control of femtosecond molecular fragmentation

10:30 - 11:00 **TEA Break**

SESSION II (11:00 - 12:30)

Chairman: Prof. V. Chandrasekhar

11:00 - 11:30 Prof. S. Sarkar Carbon Whiskers, Cuboids and Quantum Dots

11:30 - 12:00 Prof. S. Verma

Ordered Biomolecular Assemblies: From Pentapeptide to Proteins

12:00 - 12:15 Ms Anindita De

Tyrosinase Modeling. Aromatic Ring Hydroxylation: A Rationale from CuII2/CuI2 Redox Potential Values

12:15 - 12:30 Mr. Satyajit Saha

Organocatalysts with enhanced hydrogen bonding potential for enantioselective Aldol, Michael and Biginelli Reactions

SESSION III (14:15 - 15:30)

Chairman: Prof. A. Chandra

- 14:15 14:45 Prof. J. K. Bera

 Cooperative Reactivity
- 14:45 15:15 Prof. M. Ranganathan

 Impurity Effects in Crystal Growth from Solutions
- 15:15 15:30 Mr. Srirambalaji
 1,3-Bis(2-pyridyl)imidazol-2-ylidene Stabilized Trinuclear Copper(I) Cluster and its
 Properties

Special Lecture

15:30 - 15:55 Prof. V. Chandrasekhar Safety in Chemistry Labs

16:00 - 18:00 TEA/POSTER SESSION

POSTERS:

- 1. "Coordination, luminescence and aggregation of a modified adenine-silver complex" by Mrituanjay D. Pandey, Vadapalli Chandrasekhar, Sandeep Verma
- 2. "Vibrational Spectral Diffusion and Hydrogen bond Dynamics in Liquid Methanol: An ab initio Molecular Dynamics Study" by <u>Vivek K. Yadav</u>, J. RoyChoudhuri, A. Karmakar and Amalendu Chandra
- 3. "Silver-Adenine Frameworks" by <u>Jitendra Kumar</u>, A. K. Mishra, C. S. Mishra and Sandeep Verma
- 4. "Spectrally resolved femtosecond photon echo spectroscopy of astaxanthin" by <u>Ajitesh Kumar</u>, S. K. Karthick Kumar, Vivek Tiwari, Debabrata Goswami
- 5. "Activation of Cyclooctadiene (COD) at the Iridium Center: An Experimental and DFT Study" by Wahidur Rahaman and Jitendra K. Bera
- 6. "A Multifaceted N-Heterocyclic Carbene" by Arup Sinha and Jitendra K. Bera
- 7. "Homo-/Hetero-bimetallic Complexes of Pyridine/Pyrazine Amide Ligands: An Account" by Sharmila Pandey and R. N. Mukherjee
- 8. "Base-catalyzed fragmentation of norbornyl hydroxy oxetanes" by <u>G. Hari Mangeswara Rao</u> and F.A. Khan
- 9. "Degradation of N,N-dimethylformamide by paracoccus species Cloning of DMFase" by <u>Shiv Swaroop</u> and Gurunath Ramanathan

- 10. "CAN catalyzed azidation of 1,2-anhydrosugars: Applications in the synthesis of structurally diversed sugar derived morpholine triazoles and sugar oxazine-2-ones as glycosidase inhibitors" by Y. Suman Reddy and Y. D. Vankar
- 11. "Functional Coordination Polymers Built with Semi-flexible Ligands" by <u>Prem Lama</u> and P. K. Bharadwaj
- 12. "Modulation of Iron Displacements and Axial Ligand Orientations in a Nonplanar Porphyrinic Environment" by R. Patra and S. P. Rath*
- 13. "Synthesis and Characterizations of Cofacial Zinc Bisporphyrins: Enhanced Pacman Flexibility through Axial Coordinations" by S. Brahma, <u>A. Chaudhary</u>, A. Ikbal and S. P. Rath*
- 14. "Triarylbismuths as atom-efficient multi-coupling reagents in organic synthesis" by <u>Debasis Banerjee</u> and M. L. N. Rao
- 15. "Binuclear Pd-NHC Carbene via Transmetalation: Structural and Spectroscopic Characterization" by Biswajit Santra, R.Srirambalaji and G.Anantharaman