



CHEMFEST 2012

IITK Chemistry

September 01, 2012
Outreach Auditorium

Program

8:55 - 9:00 am

Introductory remarks by Prof. P. K. Bharadwaj (HOD)

Session A Chair: Prof. R. Gurunath

L1. 9:00 - 9:30 am

Prof. V. K. Yadav

“My Mess”

L2. 9:30 - 10:00 am

Prof. P. Sen

Contemplating the discrete protein sub-domains

L3. 10:00 - 10:15 am

Ms. Sayantani Saha

N-heterocyclic carbenes: normal and abnormal adaptations

L4. 10:15 - 10:30 am

Mr. Priyabrata Dasgupta

Pd-catalyzed atom-efficient threefold arylations using triarylbismuth reagents in domino and bis-couplings

10:30 - 11:00 am

High tea

Session B Chair: Prof. M. Ranganathan

L5. 11:00 - 11:30 am

Prof. J. N. Moorthy

Exploitation of sterics: modulation of organic reactivity and development of functional materials

L6. 11:30 - 12:00 noon

Prof. N. Nair

Multiscale modeling of catalytic reactions: developments and applications

L7. 12:00 - 12:15 pm

Mr. S. B. Maity

Rhodamine derivative as chemodosimeter/chemosensor for detection of metal ions

L8. 12:15 - 12:30 pm

Ms. Rima Lahiri

Synthetic strategies towards unnatural azasugars as potential glycosidase inhibitors

Session C Chair: Prof. S. Verma

L9. 2:00 - 2:30 pm

Prof. M. K. Ghorai

Enolate anions and dianions in stereoselective C-C bond formation

L10. 2:30 - 3:00 pm

Prof. S. P. Rath

Are two rings better than one? Inorganic and bioinorganic perspectives on porphyrin dimers

L11. 3:00 - 3:30 pm

Prof. G. Anantharaman

Trinuclear Cu-NHC complex: synthesis, structural characterization and reactivity

L12. 3:30 - 3:45 pm

Mr. Nityanand Sahu

Tailoring approach for large molecular clusters: applications and appraisal

L13. 3:45 - 4:00 pm

Mr. Akhilesh Shende

Inference of gene interaction networks from DNA microarray using mutual information

Concluding remarks

4:15 - 6:30 pm

Posters/Tea

Posters

1. Mr. K. Sooraj
Mechanism of oxidative degradation of PMR-15.
2. Mr. Venkataramana Immandi
Mechanistic details of the Wacker process.
3. Mr. Tushar Ghosh
RhI/Al₂O₃ single atom catalysis of CO oxidation: mechanism, effects of hydration and cluster size.
4. Mr. D. Das
Exploring the role of polarization on the dual fluorescence of IR 125.
5. Mr. Subhomoy Das
A simple route to highly substituted piperidines.
6. Mr. Aditya Bhattacharyya
Synthesis of chiral beta- and gamma-amino ethers, morpholines, and their homologues via nucleophilic ring-opening of chiral activated aziridines and azetidines.
7. Ms. Garima Tripathi
Meta binding peptides - design of 12-crown and 18-C-6 containing peptides.
8. Mr. Susan Sen
MOF containing [Zn₈O]⁺¹⁴ SBU unit with Zn-Zn bond shows high proton conductivity.
9. Mr. Shibin Chacko
Synthesis of biologically relevant 3-amino 1,4 diols.
10. Ms. Anijamol T. Philip
Non innocent dithians.
11. Mr. V. Karthik
Backbone thiofunctionalized imidazolium salts: metallation studies, electronic property and catalytic activity.
12. Mr. Sk. A. Iqbal
Supramolecular chirality in dimeric metalloporphyrin hosts: synthesis, structure and its rationalization.
13. Mr. S. Bhowmik
A novel series of oxo and hydroxo bridged Fe(III) bisporphyrins: synthesis, structure and properties.
14. Mr. Shradhey Gupta
Origin of strong synergism in weakly perturbed binary solvent system: a case study of primary alcohols and chlorinated methanes.