

Conference on New Frontiers in Chemical Science

December 13-14th, 2018

Department of Chemistry, IIT Bombay
Powai, Mumbai, Maharashtra, India – 400 076



TECHNICAL PROGRAM

13 th December, 2018 (Day-1, Room No. LH-21, VMCC)		
08:30-09:15	Registration at VMCC Ground Floor Foyer	
09:15-09:30	Inauguration at LH-21, VMCC	
Chair Person – Prof. P. Comba		
09:30-10:00	Prof. E. D. Jemmis	Nature Plays Dice with Boron: Inevitability of Uncertainties
10:00-10:30	Prof. L. Daumann	Lanthanides: Biologically relevant
10:30-11:00	Prof. C. V. Sastri	Intriguing Chemistry of High-Valent Manganese Intermediates Supported by Bispidine Framework
11:00-11:30	Tea Break	
Chair Person – Prof. R. B. Sunoj		
11:30-12:00	Prof. B. Sarkar	Light as a Powerful Source for Activating Inert Bonds: Investigations on Ruthenium and Osmium Complexes
12:00-12:30	Prof. S. Mazumdar	Biomimetic Copper(II) Complexes of Peptides
12:30-13:00	Prof. A. Roodt	Advanced studies of reaction mechanisms
13:00-14:00	Lunch	
Chair Person – Prof. M. Ravikanth		
14:00-14:30	Prof. G. N. Sastry	Metal Cation Interaction With Small Molecules
14:30-15:00	Prof. S. P. Rath	Diheme Enzyme MauG: Nature’s Sniper for Long-range Electron Transfer
15:00-15:30	Prof. A. K. Powell	Approaching a quantum critical point using chemical means – a science fiction wormhole in a science fact scenario
15:30-16:00	Group Photo +High Tea	
Chair Person - Prof. R. Anand		
16:00-16:30	Prof. S. Venkataramani	Azoheteroarenes and multiple azoarenes connected molecular systems – Photoswitches to light-driven functional molecules
16:30-17:00	Prof. K. Ray	Small Molecule Activation at Transition Metal Centers: Structure-Function Correlations
17:00-17:30	Prof. R. M. Murugan	Bioinspired Models for Unusual 3-Histidine Motif in Dioxygenase Enzymes
17:30-18:30	Felicitation to Prof. Peter Comba	
19:00-22:30	Conference Dinner	

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14th December, 2018 (Day-2, Room No. LH-21, VMCC)

Chair Person – Prof. Pradeepkumar P. I.

09:00-09:30	Prof. R. Klingeler	Beauty and the beast: High-frequency Electron Paramagnetic Resonance on 3d/4f metal-organic complexes
09:30-10:00	Prof. R. Murugavel	Molecular and Framework Metal Phosphates and the Connection Between Them
10:00-10:30	Prof. M. C. Holthausen	Perchlorosilanes – Selective Plasma Formation and Unexpected Reactivity
10:30 -11:00	Tea Break	
Chair Person – Prof. C. Subramaniam		
11:00-13:00	<u>Student Presentations</u> (S. Dinda, G. Mukherjee, P. Murugesan, R. Nagarkar, R. Nabi, N. Vyas, N. Jangra, R. Ramasubramanian, Md. Waseem, B. Pandey)	
13:00-15:00	Lunch+ Poster	
Chair Person – Prof. L. S. Panchakarla		
15:00-15:30	Prof. A. Datta	Reversible Chemical Probes for Tracking and Catching Metal Ions in vivo
15:30-16:00	Prof. C. Busche	Thiophen substituted Bispidines for molecular electronics
16:00-16:30	Closing Remarks	
16:30-17:00	High Tea	