9th CRSI-RSC Symposium

PROGRAMME

Thursday, 5 February 2015

08.00 – 08.45	Registration
08.45 – 09.00	Opening Remarks – David Philips and Sourav Pal
SESSION I	
09.00 – 09.30	Kasim Mookhtiyar, Advinus, Pune
09.30 – 10.00	Jim Scrivens, University of Warwick, Coventry
10.00 – 10.25	D. Srinivasa Reddy, CSIR-National Chemical Laboratory, Pune
10.25 – 10.40	Katie-Louise N. A. Finney, University of Durham, Durham
10.40 – 10.55	Kavita Sharma, Indian Institute of Science Education and Research, Pune
10.55 – 11.15	TEA/COFFEE
SESSION II	
11.15– 11.40	Martin Attfield, University of Manchester, Manchester
11.40 – 12.05	Debabrata Maiti, Indian Institute of Technology-Bombay, Mumbai
12.05 – 12.30	Duncan Brown, University of Cardiff, Cardiff
12.30 – 12.45	V. Manoj Kumar, CSIR-National Chemical Laboratory, Pune
12.45 – 13.00	Narayan M. S. Sirimuthu, University of Strathclyde, Glasgow
13.00 – 14.00	LUNCH
SESSION III Chemical Education Program	
14.00 – 14.30	David Philips, Imperial College, London
14.30 – 15. 00	K. N. Ganesh, Indian Institute of Science Education and Research, Pune
15.00 – 15. 30	Uday Maitra, Indian Institute of Science, Bangalore
15.30 – 16. 00	K. R. S. Chandrakumar, Bhabha Atomic Research Centre, Mumbai
16:00- 16:30	Anirban Hazra, Indian Institute of Science Education and Research, Pune
16.30 – 16.40	Concluding Remarks
16.40 – 17.00	TEA/COFFEE

CHEMICAL RESEARCH SOCIETY OF INDIA

17th National Symposium in Chemistry (NSC-17)

PROGRAMME

Friday, 6 February 2015

08.00 - 09.30	Registration
SESSION I: INAUGURATION AND PRESIDENTIAL ADDRESS **09:30 – 10.30**	
10.30 – 11.00	HIGH TEA
SESSION II: AWARD /MEDAL LECTURES **11.00 – 13.00**	
11.00 – 11.45	**Keynote Lecture** **C. N. R. Rao,** National Research Professor, Linus Pauling Research Professor and Honorary President of Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore **Artificial Photosynthesis and the Generation of Hydrogen by Water Splitting**
11.45 – 12.30	**C. N. R. Rao Award Lecture** **Toshiaki Enoki**, Tokyo Institute of Technology, Tokyo, Japan **Molecular Science of Graphene Nanostructures: Interplay between Edge Geometry and Chemistry in the Electronic Structure**
12.30 – 13.15	**S. Chandrasekaran Endowment Lecture** **Dieter Enders**, RWTH Aachen, Germany **Asymmetric Organocatalysis: From N-Heterocyclic Carbenes via Proline to Domino Reactions**
13.15 – 16.00	LUNCH AND POSTER SESSION-I **Posters No. 1 to 280**
14.00 – 15. 30	COUNCIL MEETING (Members only) Board Room, First Floor, Main Building, CSIR-NCL, Pune
15.30 – 16.00	TEA/COFFEE

SESSION III: SPECIAL AND MEDAL LECTURES **16.00 – 18.30**	
16.00 – 16.30	**Silver Medal Lecture** **Anunay Samanta**, University of Hyderabad, Hyderabad **What Can be Learnt from the Fluorescence Behavior of Molecular Systems in Room Temperature Ionic Liquids?**
16.30 – 17.00	**Darshan Ranganathan Memorial Lecture** **Sandeep Verma**, Indian Institute of Technology, Kanpur **Modified Nucleobases and Amino Acids for Bioimaging and as Delivery Vehicles**

17.00 – 17.20	**Bronze Medal Lecture** **R. B. Sunoj**, Indian Institute of Technology-Bombay, Mumbai **Demystifying the Line of Control and the Line of Actual Control in Asymmetric Catalysis Using Transition State Modeling**
17.20 – 17.40	**Bronze Medal Lecture** **D. K. Maity,** Bhabha Atomic Research Centre, Mumbai **Theoretical Studies on Size Selected Solvated Clusters: Understanding towards Certain Macroscopic Properties**
17.40 – 18.00	**Bronze Medal Lecture** **M. Eswaramoorthy**, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore **Aminoclay Based Organic-Inorganic Hybrids**
18.00 – 18.30	**Lecture by CRSI Honorary Fellow** **Li-Jun Wan**, Chinese Academy of Sciences, Beijing, China **Surface and Interfacial Chemistry of Carbon Material Revealed by STM**
19.30 – 21.30	DINNER

Saturday, 7 February 2015

SESSION IV: SPECIAL AND MEDAL LECTURES **09:00 – 10.30**	
09.00 – 09.30	**CRSI Medal Lecture** **Sankar Balasubramanian**, University of Cambridge, UK **Chemical Biology on the Genome**
09.30 - 10.00	**C. N. R. Rao National Prize for Chemical Research** **Balaji R. Jagirdar**, Indian Institute of Science, Bangalore **Approaches to Sigma Methane Complexes of Transition Metals**
10.00 – 10.30	**CRSI Medal Lecture** **Ram Seshadri,** University of California, Santa Barbara, USA **Rational Design of Phosphors for Solid-State Lighting**
10.30 – 11.00	TEA/COFFEE
SESSION V: SPECIAL AND MEDAL LECTURES **11.00 – 13.10**	
11.00 – 11.30	**Silver Medal Lecture** **Amit Basak**, Indian Institute of Technology, Kharagpur **Revisiting Reactive Intermediates: Newer Applications in Synthesis and Capture Research**
11.30 – 11.50	**Bronze Medal Lecture** **Sankar P. Rath**, Indian Institute of Technology, Kanpur **Unfolding Mystery of Multiheme Proteins: Nature's Design and Role of Heme-Heme Interactions in the Functional Control**
11.50 – 12.10	**Bronze Medal Lecture** **G. Sekar,** Indian Institute of Technology-Madras, Chennai

	Metal Nanoparticles Stabilized by Metal-Carbon Covalent Bonds: An Efficient and Reusable Nanocatalyst
12.10 – 12.30	**Bronze Medal Lecture** **S. K. Srivastava**, Manipur University, Manipur **Luminescent Magnetic Hybrid Nanomaterials for Hyperthermia Application**
12.30 – 12.50	**Bronze Medal Lecture** **Subi J. George,** Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore **Chiroptical Probing and Amplification of Chiroptical Functions in Helical Assemblies**
12.50 – 13.10	**Bronze Medal Lecture** **Amiya K. Panda,** North Bengal University, Darjeeling **Impairing Effect of Fibrinogen on the Mono-/Bi-layer Form of Bovine Lung Surfactant**
13.10 – 16.00	LUNCH AND POSTER SESSION-II **Posters No. 281-560**
15.30 – 16.00	TEA/COFFEE
SESSION VI: MEDAL LECTURES **16.00 – 17.30**	
16.00 – 16.30	**Silver Medal Lecture** **P. K. Bharadwaj**, Indian Institute of Technology, Kanpur **A Journey Through Supramolecular Chemistry**
16.30 – 16.50	**Bronze Medal Lecture** **Vandana Bhalla**, Guru Nanak Dev University, Amritsar **Aggregation Induced Emission Enhancement Materials: Self-Assembly and Sensing Applications**
16.50 – 17.10	**Bronze Medal Lecture** **K. R. Prabhu,** Indian Institute of Sciences, Bangalore **C-H Bond Functionalization Reactions**
17.10 – 17.30	**Special Lecture** **D G Schmidt, ACS President**
17.30 – 17.45	TEA/COFFEE
17.45 – 19.00	**CRSI General Body Meeting and Presentation of Medals/Awards**
SESSION VII: LIFETIME ACHIEVEMENT AWARD **19.00 – 19.45**	

19.00 – 19.45	**Gold Medal Lecture** **Bidyendu Mohan Deb**, Kolkata **Electron Density Based Concepts and Theories in Chemistry**
20.00 – 22.00	DINNER

Sunday, 8 February 2015

SESSION VIII: AWARD/MEDAL LECTURES **09.00 – 10.40**	
09.00 – 09.30	**Lecture by CRSI Honorary Fellow** **Keiji Maruoka**, Kyoto University, Kyoto, Japan **Design of High-Performance Organocatalysts for Asymmetric Catalysis**
09.30 – 10.00	**C. N. R. Rao National Prize for Chemical Research** **K. P. Kaliappan,** Indian Institute of Technology-Bombay, Mumbai **Domino Strategies for Syntheses of Natural Products and New Molecular Scaffolds**
10.00 – 10.20	**Bronze Medal Lecture** **T. Punniyamurthy,** Indian Institute of Technology, Guwahati **Multicomponent Tandem Carbon-Carbon/Heteroatom Bonds Formation and Their Application for the Synthesis of Medicinally Significant Heterocyclic Compounds**
10.20 – 10.40	**Bronze Medal Lecture** **D. K. Dutta,** CSIR-North East Institute of Science and Technology, Jorhat **Potential Metal Complexes and Metal Nanoparticles for Efficient Catalytic Applications**
10.40 – 11.10	TEA/COFFEE

SESSION IX: Mini-Symposium on Bio-Inspired Catalysis **11.10 – 13.00**	
11.10 – 11.40	**V. Chandrasekhar, National Institute of Science Education and Research, Bhubaneswar** **Polynuclear Lanthanide Complexes**
11.40 – 12.00	**Samir Maji, Indian Institute of Technology-Bombay, Mumbai** **Amyloids for Biomaterial Applications**
12.00 – 12.20	**Tapan K. Paine, Indian Association of Cultivation of Sciences, Kolkata** **Dioxygen Activation and Oxyfunctionalization of C-H and C=C Bonds by Bio-inspired Nonheme Iron Complexes**
12.20 – 12.40	**P.I. Pradeep Kumar, Indian Institute of Technology-Bombay, Mumbai** **DNA as a Catalyst: An Odyssey in the World of RNA Cleaving DNA Enzymes**

12.40 – 13.00	**Pradyut Ghosh, Indian Association of Cultivation of Sciences, Kolkata** **Anion Recognition and Extraction by Synthetic Hosts**
13.00 – 14.00	LUNCH
SESSION X: MEDAL LECTURES **14.00 – 16.00**	
14.00 – 14.20	**Bronze Medal Lecture** **Ashwini Phukan,** Tezpur University, Tezpur **Effect of Annulation and Carbonylation on the Ligand Properties of N-Heterocyclic Carbenes and its Heavier Analogs: A Theoretical Study**
14.20 – 14.40	**Bronze Medal Lecture** **Srinivas Hotha**, Indian Institute of Science Education and Research, Pune **Glycochemical Synthesis and its Significance in Mycobacteriology**
14.40 – 15.00	**Bronze Medal Lecture** **Chhanda Mukhopadhyay**, University of Calcutta, Kolkata **Exploitation of Dual Nature of Cyanide Moiety towards Uniquely decorated [1,6] Naphthyridines, 3H-pyrroles and Pyridines: A Rare Observation**
15.00 – 15.20	**Bronze Medal Lecture** **S. K. Asha,** CSIR-National Chemical Laboratory, Pune **Self-Assembly in Comb Polymers for Improved Charge Carrier Mobility**
15.20 – 15.40	**Bronze Medal Lecture** **Rama Kant**, University of Delhi, New Delhi **Theories for Molecular Walks Through a Rough Electrode Terrain**
15.40 – 16.00	**Concluding Remarks**
16.00 – 16.30	TEA/COFFEE