

CHEMICAL RESEARCH SOCIETY OF INDIA

16<sup>th</sup> National Symposium in Chemistry (NSC-16)

Venue : Victor Menezes Convention Centre (VMCC), IIT Bombay

PROGRAMME

Thursday, 6 February 2014

16.00 - 20.00	Registration at the respective Guest Houses/Hotels
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Friday, 7 February 2014

08.00 - 09.30	Registration at the Conference Venue
<b>SESSION I: INAUGURATION AND PRESIDENTIAL ADDRESS</b>	
09:30 - 10.30	
10.30 - 11.00	Tea Break
<b>SESSION II: AWARD /MEDAL LECTURES</b>	
11.00 - 13.15	<b>CHAIRPERSON : A. Chakravorty</b>
11.00 - 11.30	Lecture by CRSI Honorary Fellow <b>Roeland J. M. Nolte</b> , Radboud University Nijmegen, The Netherlands <b>Title: Design and Synthesis of Bio-inspired Catalysts and Materials</b>
11.30 - 12.00	Lecture by CRSI Honorary Fellow <b>Lutz F. Tietze</b> , University of Göttingen, Germany <b>Title: Novel Drugs and Targets for a Selective Treatment of Cancer</b>
12.00 - 12.30	<b>C. N. R. Rao National Prize in Chemical Sciences Lecture</b> <b>H. N. Ghosh</b> , Bhabha Atomic Research Centre, Mumbai <b>Title: Ultrafast Hole and Electron Transfer Dynamics on the Design of Higher Efficient Super-Sensitized Quantum Dot Solar Cell</b>
12.30 - 12.50	<b>Bronze Medal Lecture</b> <b>Satish Patil</b> , Indian Institute of Science, Bangalore <b>Title: Influence of Torsional Angle on Polymer Chain Conformation and Charge Carrier Mobility</b>
12.50 - 13.10	<b>Bronze Medal Lecture</b> <b>Prasenjit Ghosh</b> , Indian Institute of Technology, Bombay <b>Title: Understanding the N-heterocyclic Carbene Influence: From Drawing Board to Practical Utility</b>
13.10 - 16.00	<b>LUNCH AND POSTER SESSION 1</b> Posters No. 1 to 248 <b>CHAIRPERSON : V. Chandrasekhar</b>
14.00 - 15.30	<b>CRSI COUNCIL MEETING (Members only)</b> VMCC Board Room
15.30 - 16.00	TEA/COFFEE

<b>SESSION III: SPECIAL AND MEDAL LECTURES</b>	
<b>16.00 – 18.00</b>	<b>CHAIRPERSON : K. N. Ganesh</b>
16.00 – 16.30	<b>CRSI Medal Lecture</b> <b>Arun K. Ghosh</b> , Purdue University, USA <b>Title: Organic Synthesis and Molecular Design in Today's Medicine</b>
16.30 – 17.00	<b>Silver Medal Lecture</b> <b>Vinod K. Singh</b> , Indian Institute of Science Education and Research, Bhopal <b>Title: Enantioselective Reactions via Dual Activation using Hydrogen Bonding Organocatalysts</b>
17.00 – 17.20	<b>Bronze Medal Lecture</b> <b>A. Srinivasan</b> , National Institute of Science Education and Research, Bhubaneswar <b>Title: Contracted Porphyrinoids</b>
17.20 – 17.40	<b>Bronze Medal Lecture</b> <b>Bhisma K. Patel</b> , Indian Institute of Technology, Guwahati <b>Title: Alkylbenzene as ArCO-, ArCH<sub>2</sub>- and ArCOO- Surrogates</b>
17.40 – 18.00	<b>Presentation/Remarks</b> <b>Marinda Li Wu</b> , President, American Chemical Society
<b>18.15 – 18.55</b>	<b>Felicitations of Prof. C.N. R. Rao FRS</b> <b>On the occasion of being conferred "Bharat Ratna"</b>
<b>19.00 – 21.30</b>	<b>DINNER</b>

**Saturday, 8 February 2014**

<b>SESSION IV: SPECIAL AND MEDAL LECTURES</b>	
<b>09:00 – 10.30</b>	<b>CHAIRPERSON : T. K. Chandrashekar</b>
09.00 – 09.45	<b>C. N. R. Rao Award Lecture</b> <b>Andrew B. Holmes</b> , University of Melbourne, Australia <b>Title: Challenges in Synthesis and Fabrication of Solar Cells Fabricated from Conjugated Materials</b>
9.45 – 10.15	<b>A. Chakravorty Endowment Lecture</b> <b>William B. Tolman</b> , University of Minnesota, Minneapolis, USA <b>Title: Copper-Oxygen Intermediates Relevant to Metalloenzymes and Other Oxidation Catalysts</b>
10.15 - 10.45	<b>Silver Medal Lecture</b> <b>P. K. Chattaraj</b> , Indian Institute of Technology, Kharagpur <b>Title: All-Metal Aromaticity and Conceptual DFT</b>
<b>10.45 – 11.10</b>	<b>TEA/COFFEE</b>

<b>SESSION V : NSC-16 SPECIAL SESSION</b>		<b>CHAIRPERSON: Devang V. Khakhar</b>
<b>11.10 – 13.15</b>	<b>THEME: 50 Years of Chemistry at IIT Bombay</b>	
11.10 – 11.30	<b>IITB Chemistry Golden Jubilee Remarks : R. Murugavel</b>	
11.30 – 12.15	<b>Inaugural IITB Chemistry Golden Jubilee Lecture</b> C. N. R. Rao, National Research Professor, Linus Pauling Research Professor and Honorary President of Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore	
12.15 – 12.40	<b>Anshu Pandey</b> , Indian Institute of Science, Bangalore <b>Title: Controlling Absorption and Emission in Semiconductor Nanocrystals</b>	
12.40 – 13.05	<b>Arindam Chowdhury</b> , Indian Institute of Technology, Bombay <b>Title: Energetic inhomogeneity in nanocrystals: Insights from single-emitter spectroscopy</b>	
<b>13.05 – 16.00</b>	<b>LUNCH AND POSTER SESSION II</b> Posters No. 249 -497	<b>CHAIRPERSON : V. Chandrasekhar</b>
<b>15.30 – 16.00</b>	<b>TEA/COFFEE</b>	
<b>SESSION VI : MEDAL LECTURES</b>		
<b>16.00 – 18.00</b>	<b>CHAIRPERSON : S. Umapathy</b>	
16.00 – 16.30	<b>Mizhushima-Raman Lecture</b> <b>H.-O-Hamaguchi</b> , National Chiao Tung University, Taiwan <b>Title: Raman Spectroscopy: Past and Future</b>	
16.30 – 16.50	<b>Bronze Medal Lecture</b> <b>M. Jayakannan</b> , Indian Institute of Science Education and Research, Pune <b>Title: Polymer Vesicles: Emerging Platform for Anticancer Drug Delivery</b>	
16.50 – 17.10	<b>Bronze Medal Lecture</b> <b>Rukshana I. Kureshi</b> , CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar <b>Title: Asymmetric Organic Transformations for the Preparation of Biologically Important Chiral Compounds: Development of Novel Chiral Catalysts</b>	
<b>17.10 – 18.30</b>	<b>CRSI General Body Meeting</b> <b>Presentation of Medals/Awards</b>	
<b>SESSION VII : LIFETIME ACHIEVEMENT AWARDS</b>		

<b>18.30 - 20.00</b>		<b>CHAIRPERSON : S. Chandrasekaran</b>
<b>18.30 - 19.15</b>	<b>Gold Medal Lecture</b> <b>S. S. Krishnamurthy</b> , Indian Institute of Science, Bangalore <b>Title: Voyaging the "P-N-P" Islands: An Odyssey Spanning Four Decades</b>	
<b>19.15 - 20.00</b>	<b>Gold Medal Lecture</b> <b>J. P. Mittal</b> , Bhabha Atomic Research Centre, Mumbai <b>Title: A Tryst with Radiation Research</b>	
<b>20.00 - 21.30</b>	<b>DINNER</b>	

**Sunday, 9 February 2014**

<b>SESSION VIII : AWARD/MEDAL LECTURES</b>		<b>CHAIRPERSON : D.S Pandey</b>
<b>09.00 - 10.30</b>		
<b>09.00 - 09.30</b>	<b>CRSI Medal Lecture</b> <b>Varinder K. Aggarwal</b> , University of Bristol, UK <b>Title: Assembly Line Synthesis</b>	
<b>09.30 - 10.00</b>	<b>CRSI Medal Lecture</b> <b>Arunava Gupta</b> , The University of Alabama, USA <b>Title: Magnetic and Semiconducting Oxide and Chalcogenide Nanocrystals</b>	
<b>10.00 - 10.30</b>	<b>C. N. R. Rao National Prize Lecture in Chemical Sciences</b> <b>Amitava Patra</b> , Indian Association for the Cultivation of Science, Kolkata <b>Title: Fluorescence Dynamics of Nanomaterials for Potential Applications</b>	
<b>10.30 - 11.00</b>	<b>TEA/COFFEE</b>	

<b>SESSION IX: MEDAL LECTURES</b>	
<b>11.00 - 12.45</b>	<b>CHAIRPERSON : E. D. Jemmis</b>
11.00 - 11.30	<b>Silver Medal Lecture 3</b> S. Goswami, Indian Association for the Cultivation of Science, Kolkata <b>Title: Metal Coordinated Azo-aromatic: An Upsurge in the Studies of Non-Innocent Ligand Chemistry</b>
11.30 - 11.50	<b>Bronze Medal Lecture 7</b> I. N. N. Namboothiri, Indian Institute of Technology, Bombay <b>Title: Catalytic Asymmetric Synthesis of Novel Multi-functional and Bioactive Molecules</b>
11.50 - 12.10	<b>Bronze Medal Lecture</b> C. V. Ramana, National Chemical Laboratory, Pune <b>Title: Harmonious Orchestration of Catalytic Transformations in Sequence: The Total Synthesis of Isatisine A and Trigonoliimine C</b>
12.10 - 12.30	<b>Bronze Medal Lecture</b> Surinder Mehta, Panjab University, Chandigarh <b>Title: Catalytic and Sensor Based Applications of Metallic Nanoparticles</b>
12.30 - 13.00	<b>Silver Medal Lecture</b> S. Ramakrishnan, Indian Institute of Science, Bangalore <b>Title: Lessons in taming of MACROmolecules</b>
<b>13.00 - 14.00</b>	<b>LUNCH</b>
<b>SESSION X : CHEMISTRY IN INDUSTRY</b>	
<b>14.00 - 15.30</b>	
14.00 - 14.30	<b>Joachim Rheinheimer</b> , Global Research Crop Protection, BASF, Germany <b>Title: Fungicide Research in Plant Protection</b>
14.30 - 15.00	<b>A.V. Rama Rao</b> , Avra Laboratories Pvt. Ltd., Hyderabad <b>Title: Taking Innovation to the Market: A Scientist's Journey</b>
15.00 - 15.30	<b>Robert J Visser</b> , Applied Materials, USA <b>Title : Precision Materials Engineering for Solving Critical Industry Inflections</b>
<b>15.30 - 15.50</b>	<b>TEA/COFFEE</b>

**SESSION XI : MEDAL LECTURES****15.50 - 17.10****CHAIRPERSON : Swapan Ghosh**

15.50 - 16.10	<b>Bronze Medal Lecture</b> <b>S. Perumal</b> , Madurai Kamaraj University, Madurai <b>Title: Domino Reactions in the Construction of Novel Heterocycles</b>
16.10 - 16.30	<b>Bronze Medal Lecture</b> <b>R. K. Mahajan</b> , Guru Nanak Dev University, Amritsar <b>Title: Electrochemical Sensors for Cation/Anion Recognition</b>
16.30 - 16.50	<b>Bronze Medal Lecture</b> <b>A. C. Bhasikuttan</b> , Bhabha Atomic Research Centre, Mumbai <b>Title: Molecular Recognition in Biomolecular Assemblies: Photochemical Perspective of Thioflavin T on G-quadruplex DNA</b>
16.50 - 17.00	<b>Concluding Remarks</b>