

# CHEMICAL RESEARCH SOCIETY OF INDIA

## 11<sup>th</sup> CRSI-RSC Symposium

Venue: B. K. B. Auditorium, Gauhati University

### PROGRAMME

Thursday, 2 February 2017

08.00 – 09.30	Registration
09.00 – 09.30	Opening Remarks
<b>SESSION I</b>	<b>Chairperson: Alejandra Palermo</b>
09.30 – 10.00	<b>Iseult Lynch</b> , University of Birmingham, UK Title:
10.00 – 10.30	<b>Alakesh Bisai</b> , Indian Institute of Science Education and Research (IISER), Bhopal <b>Title: Synthetic Approaches to the Architecturally Intriguing Alkaloids of Biological Relevance</b>
10.30 – 11.00	TEA/COFFEE
<b>SESSION II</b>	<b>Chairperson: B. K. Patel</b>
11.00– 11.30	<b>Philip Fowler</b> , University of Oxford, UK <b>Title: De novo prediction of trimethoprim resistance in <i>S.aureus</i></b>
11.30 – 12.00	<b>Govardhan Reddy</b> , Indian Institute of Science (IISc), Bangalore <b>Title: Protein collapse and folding</b>
12.00 – 12.30	<b>Lipi Thukral</b> , Institute of Genomics and Integrative Biology, Delhi <b>Title: Molecular principles of protein-membrane interactions for cellular homeostasis</b>
12.30 – 12.45	<b>Manas Jyoti Sarma</b> , Gauhati University <b>Title: [Cu(DMAP)<sub>4</sub>]I complex as catalyst for C-N and C-S cross coupling reaction: A modified Chan-Lam reaction</b>
12.45 – 13.00	<b>Bedika Phukan</b> , IIT Guwahati <b>Title: Synthesis of Water-Soluble and Water-Coordinated Mn(II) and Gd(III) Complexes for High Field (14.1 T) MRI Study</b>

13.00 - 14.00	LUNCH	
<b>SESSION III Chairperson: Satish Patil</b>		
14.00 - 14.30	<b>Deborah Kays</b> , University of Nottingham, UK <b>Title: Catalysis Using Low-Coordinate Transition Metal Complexes</b>	
14.30 - 15.00	<b>Nayanmani Gogoi</b> , Tezpur University, Tezpur <b>Title: Modulation of Coordination Environment: A Convenient Approach to Tailor Single Ion Magnetic Anisotropy</b>	
15.00 - 16.30	<b>Workshop on Good Practices in Publishing</b> <b>B. K. B. Auditorium</b>	<b>Interactive programme (of RSC President with students)</b> <b>GU Guest House</b>
16.30 - 16.45	Concluding Remarks	
16.45 - 17.15	TEA/COFFEE	

**CHEMICAL RESEARCH SOCIETY OF INDIA**  
**20<sup>th</sup> National Symposium in Chemistry (NSC-20)**  
**Venue: B. K. B. Auditorium, Gauhati University**

**PROGRAMME**

**Friday, 3 February 2017**

08.30 - 09.30	Registration
<b>SESSION I: INAUGURATION AND PRESIDENTIAL ADDRESS BY SOURAV PAL</b>	
09:30- 10.45	
10.45 - 11.15	HIGH TEA
<b>SESSION II: SPECIAL LECTURE</b>	
11.15 - 12.00	<b>CHAIRPERSON: V. Krishnan</b>
11.15 - 12:00	<p><b>Invited Lecture by CRSI Honorary Fellow</b>  <b>Richard N. Zare, Stanford University, USA</b>  <b>Title: Microdroplet Chemistry: From Accelerating Reactions to Cancer Diagnostics</b></p>
<b>SESSION III: S. CHANDRASEKARAN ENDOWMENT LECTURE</b>	
11.15 - 12.00	<b>CHAIRPERSON: M. Hazarika</b>
12:00 - 12.45	<p><b>S. Chandrasekaran Endowment Lecture</b>  <b>Henry N.C. Wong, The Chinese University of Hong Kong, China</b>  <b>Title: Metal-catalyzed Reactions in Organic Synthesis</b></p>
12.45 - 16.00	<p>LUNCH AND POSTER SESSION I  <b>Posters No. 1 to 240</b>                      <b>CHAIRPERSON: R. Ramaraj</b></p>
14.00 - 15.30	COUNCIL MEETING (Members only)
15.30 - 16.00	TEA/COFFEE

<b>SESSION IV: SPECIAL AND MEDAL LECTURES</b>	
16.00 - 18.30	<b>CHAIRPERSON: Uday Maitra</b>
16.00 - 16.30	<p><b>Silver Medal Lecture</b>  <b>Amitava Das, CSIR-Central Salt &amp; Marine Chemicals Research Institute, Bhavnagar</b>  <b>Title: Ordering Molecules for Predictive Responses</b></p>
16.30 - 17.00	<p><b>Charusita Chakravarty Memorial Lecture</b>  <b>Parbati Biswas, University of Delhi, New Delhi</b></p>

17.00 – 17.20	<p><b>Title: Exploring Misfolding and Intrinsic Disorder in Proteins: Simple Models to Real Proteins</b></p> <p><b>Bronze Medal Lecture</b>  <b>Prasanta Ghorai</b>, Indian Institute of Science Education and Research (IISER), Bhopal  <b>Title: Enantioselective Intramolecular Oxa-Michael Addition For The Development of Chiral Oxa-Cycles</b></p>
17.20 – 17.40	<p><b>Bronze Medal Lecture</b>  <b>Narayan Pradhan</b>, Indian Association for the Cultivation of Science (IACS), Kolkata  <b>Title: Semiconductor Nanocrystals: To Dope or not to Dope</b></p>
18.00 – 19.30	Cultural Program
19.30 – 21.30	DINNER

### Saturday, 4 February 2017

<b>SESSION V: SPECIAL AND MEDAL LECTURES</b>	
<b>09:00 – 10.30</b>	<b>CHAIRPERSON: Vinod Singh</b>
09.00 – 09.30	<p><b>C. N. R. Rao National Prize for Chemical Research</b>  <b>Arindam Banerjee</b>, Indian Association for the Cultivation of Science (IACS), Kolkata  <b>Title: Self-assembling peptide based soft functional materials</b></p>
09.30 - 09.50	<p><b>Bronze Medal Lecture</b>  <b>M. N. Roy</b>, North Bengal University, Darjeeling  <b>Title: Study to Explore the Mechanism to form Inclusion Complexes of <math>\beta</math>-Cyclodextrin with Vitamin Molecules</b></p>
09.50 – 10.10	<p><b>Bronze Medal Lecture</b>  <b>Sailaja Krishnamurty</b>, CSIR-Central Electrochemical Research Institute, Karaikudi  <b>Title: Probing the significance of cooperative and fluxional effects in clusters and phospholipids through Ab initio molecular dynamical simulations</b></p>
10.10 – 10.30	<p><b>Bronze Medal Lecture</b>  <b>Anil K. Saikia</b>, Indian Institute of Technology (IIT), Guwahati  <b>Title: New Strategies for the Synthesis of Heterocyclic Compounds</b></p>
10.30 – 11.00	TEA/COFFEE

<b>SESSION VI: Thematic Mini-Symposium</b>	
<b>Energy Innovations: Current Scenario and Future Directions</b>	
<b>11.00 - 13.00</b>	<b>CHAIRPERSON: B. K. Das</b>
11.00 – 11.30	<b>Invited Lecture:</b> Sivaram Arepalli, Rice University, USA <b>Title: Status and future of nanomaterials for energy storage</b>
11.30 – 11.55	<b>Invited Lecture:</b> P. K. Dhodapkar, Oil India Ltd. Duliajan <b>Title: Industry - Academia Interaction for Addressing Energy Challenges : OIL's Perspective</b>
11.55 – 12.20	<b>Invited Lecture:</b> M. Lakshmi Kantam, ICT Mumbai and Tezpur University <b>Title: Development of catalysts for the conversion of bio-mass derived compounds into fuel additives</b>
12.20 – 12.45	<b>Invited Lecture:</b> Sanjay Khanna, Numaligarh Refineries Ltd. <b>Title: NRL Biorefinery Project</b>
12.45 – 13.00	<b>Invited Lecture:</b> Jadab Sharma, Panjab University <b>Title: Influence of external additives on efficiency and ionic liquids on shelf-life of solar cells</b>
<b>13.00 – 16.00</b>	<b>LUNCH AND POSTER SESSION II</b> Posters No. 240 -480 <b>CHAIRPERSON : K.K. Ghosh</b>
<b>15.30 – 16.00</b>	<b>TEA/COFFEE</b>
<b>SESSION VII: INVITED AND MEDAL LECTURES</b>	
<b>16.00 – 17.35</b>	<b>CHAIRPERSON : S Chandrasekaran</b>
16.00 – 16.30	<b>Invited Lecture</b> <b>Alejandra Palermo</b> , Royal Society of Chemistry, London <b>Title: Future of the Chemical Sciences – preparing for an uncertain future</b>
16.30 – 16.50	<b>Bronze Medal Lecture</b> <b>Vivek Polshettiwar</b> , Tata Institute of Fundamental Research (TIFR), Mumbai <b>Title: Dendritic fibrous nanosilica supported gold catalysts with half million turnover number</b>
16.50 – 17.35	<b>C. N. R. Rao Award Lecture</b> <b>Graham Hutchings</b> , Cardiff University, UK <b>Title: Catalysis using new nanomaterial catalysts</b>
<b>17.35 – 18.35</b>	<b>General Body Meeting and Presentation of Medals/Awards</b>
<b>19.00 – 21.30</b>	<b>CONFERENCE DINNER</b>

## Sunday, 5 February 2017

<b>SESSION VIII: SPECIAL LECTURES</b>	
<b>09.00 - 10.15</b>	<b>CHAIRPERSON :</b>
09.15 - 10.15	<p><b>Special Lecture</b>  <b>C. N. R. Rao</b>, National Research Professor, Linus Pauling Research Professor and Honorary President of Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore  <b>Title: Exciting Story of Chemical Science (Glorious Past and Challenging Future)</b></p>
10.15 - 10.45	TEA/COFFEE
<b>SESSION IX: MEDAL LECTURES</b>	
<b>10.45 - 13.10</b>	<b>CHAIRPERSON: R Murugavel</b>
10.45 - 11.15	<p><b>Silver Medal Lecture</b>  <b>Tushar Chakraborty</b>, Indian Institute of Science (IISc), Bangalore  <b>Title: Cationic antimicrobial peptides with improved biological profiles: Hybrid structures herald new promises</b></p>
11.15 - 11.35	<p><b>Bronze Medal Lecture</b>  <b>Suvarn Kulkarni</b>, Indian Institute of Technology (IIT), Bombay  <b>Title: Expeditious Synthesis of Bacterial Glycoconjugates</b></p>
11.35 - 11.55	<p><b>Bronze Medal Lecture</b>  <b>P. Venkatesu</b>, University of Delhi, New Delhi  <b>Title: Ammonium ionic liquids as biocompatible co-solvents for the structure and stability of biomolecules</b></p>
11.55 - 12.15	<p><b>Bronze Medal Lecture</b>  <b>Arvind Kumar</b>, CSIR-Central Salt &amp; Marine Chemicals Research Institute, Bhavnagar  <b>Title: Room Temperature Ionic Liquids: Structure-Property Correlations and applications in Biomass Processing and Colloidal Chemistry</b></p>
12.15 - 12.45	<b>Concluding Remarks</b>
12.45 - 14.00	LUNCH AND DEPARTURE