



## 33<sup>rd</sup> CRSI National Symposium in Chemistry and CRSI-ACS Lectures

### Schedule of Lectures

#### Day 1: THURSDAY, 04 July 2024

8:00 AM - 9:00 AM	Onsite Registration, Tea and Networking
Inauguration	
9:00 AM - 9:05 AM	Welcome of Dignitaries
9:05 AM - 9:10 AM	Lighting the Lamp
9:10 AM - 9:15 AM	Welcome Address by Dr. Rakeshwar Bandichhor, Vice President and Head of Chemistry-API, Dr. Reddy's Laboratories Ltd.
9:15 AM - 9:25 AM	Remarks from Mr. G. V. Prasad, Co-Chairman & Managing Director, Dr. Reddy's Laboratories Ltd.
9:25 AM - 9:35 AM	General Remarks by Prof. Govardhan Mehta, University of Hyderabad
9:35 AM - 9:40 AM	Remarks from Mr. Sushrut Kulkarni, Global Head of IPDO, Dr. Reddy's Laboratories Ltd.
9:40 AM - 9:45 AM	Remarks from Dr. James Milne, President, American Chemical Society Publications
9:45 AM - 9:50 AM	Remarks from Dr. Deeksha Gupta, Director, Global Strategy for Society Programs, American Chemical Society
9:50 AM - 9:55 AM	'About CRSI' by Prof. N. Jayaraman, Secretary General, CRSI
9:55 AM - 10:25 AM	Presidential Address by Prof. Uday Maitra, President, CRSI
10:25 AM - 10:30 AM	Remarks from Dr. Srinivas Oruganti, Director, DRILS, Hyderabad
10:30 AM - 11:10 AM	Group Photo, High Tea and Networking
Session 1: Chair: Prof. E. D. Jemmis, IISc, Bangalore and Prof. J. K. Bera, IIT, Kanpur	
11:10 AM - 11:40 AM	<b>Chemistry in the Extreme Quantum Regime</b> Prof. N. Balakrishnan, University of Nevada, USA ( <b>CRSI Medal</b> )
11:40 AM - 12:10 PM	<b>Strained Ring Systems for the Construction of Heterocyclic Compounds</b> Prof. T. Punniyamurthy, IIT Guwahati ( <b>Silver medal Lecture</b> )
12:10 PM - 12:30 PM	<b>Applications of N-Heterocyclic Germynes</b> Prof. S. Nagendran, IIT Delhi ( <b>Bronze Medal Lecture</b> )

12:30 PM - 12:50 PM	<b>Sillen Aurivillius Phases for Energy Harvesting</b> Prof. Ujjal K. Gautam, IISER, Mohali. ( <b>Bronze Medal Lecture</b> )
12:50 PM - 2:00 PM	Lunch and Networking
2:00 PM - 3:30 PM	Council Meeting
2:00 PM - 4:00 PM	<b>Poster Session 1 Evaluation Committee</b>  <b>Chair Persons: Prof. Nitin Patil (IISER, Bhopal) and Prof. Rupam Dinda (NIT, Rourkela)</b> Prof. V. Sridharan, University of Hyderabad Prof. Raja Angamuthu, IIT, Kanpur Prof. Vidya Avasare, Ashoka University Prof. Shivapriya, IIT Gandhinagar Prof. S. Nagendran, IIT Delhi Prof. Sanjit Konar, IISER, Bhopal Dr. Saibal Kumar Das, Dr. Reddy's Laboratories Ltd.
4:00 PM - 4:30 PM	Tea Break and Networking

**Session 2: Moderator: Prof. Uday Maitra, IISc, Bangalore**

4:30 PM - 5:30 PM	Interactive Session on "The Future of Scientific Meetings" Prof. Govardhan Mehta, University of Hyderabad Prof. Erick M. Carreira, ETH Zurich Dr. Rakeshwar Bandichhor-Dr. Reddy's Laboratories Ltd.
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**Day 2: FRIDAY, 05 July 2024**

**Session 1: Chair: Prof. V. Chandrasekhar, TIFR, Hyderabad**

9:30 AM - 10:00 AM	<b>Research led innovation: The Role of Publicly Funded Institutions</b> Dr. Radha Rangarajan, CDRI, Lucknow
10:00 AM - 10:30 AM	<b>Targeting the Tumor Immune Microenvironment with Small Molecules for Cancer Therapy</b> Dr. Murali Ramachandra, Aurigene Oncology, Bangalore
10:30 AM - 11:00 AM	Talk by Prof. Erick M. Carreira, ETH Zurich ( <b>ACS Lecture</b> )
11:00 AM - 11:20 AM	<b>Revolutionizing API R&amp;D: In Silico Solubility Predictions for Superior Yield, Purity, and 30% Resource Savings</b> Dr. Ravi S Ananthula, CSO, PharmaDEM Solutions
11:20 AM - 11:40 AM	Tea and Networking

**Session 2: Chair: Prof. A. G. Samuelson, IISc, Bangalore**

11:40 AM - 12:10 PM	<b>Mapping Chemical Landscapes in the Genome: From Oxidative Stress and Toxicants to Cancer Drugs</b> Prof. Shana J. Sturla, ETH-Zurich, Switzerland ( <b>ACS Lecture</b> )
12:10 PM - 12:40 PM	<b>Regio- and Stereoselective Synthesis of Functionalised N-Heterocycles and Carbocycles and Synthetic Diversification of Remdesivir</b> Prof. Vibha Tandon ( <b>AVR Lecture</b> )

12:40 PM - 1:10 PM	<b>Ligand-Enabled Gold Redox Catalysis</b> Prof. Nitin Patil, IISER, Bhopal ( <b>CNR Rao National Prize Lecture</b> )
1:10 PM - 2:10 PM	Lunch Break
2:10 PM - 4:00 PM	<b>Poster Session 2</b> <b>Evaluation Committee</b>  <b>Chair Persons: Prof. Anil Kumar (BITS Pilani) and Prof. Vinod Kumar Tiwari (BHU, Varanasi)</b>  Prof. V. Sridharan, University of Hyderabad Prof. Raja Angamuthu, IIT, Kanpur Prof. Vidya Avasare, Ashoka University Prof. Shivapriya, IIT Gandhinagar Prof. S. Nagendran, IIT Delhi Prof. Sanjit Konar, IISER, Bhopal Dr. Saibal Kumar Das, Dr. Reddy's Laboratories Ltd.
4:00 PM - 4:30 PM	Tea Break and Networking
<b>Session 3: Chair: Prof. H. Ila, JNCASR, Bangalore</b>	
4:30 PM - 4:50 PM	<b>Spin-State Switching in Dynamic Molecules</b> Prof. Sanjit Konar, IISER, Bhopal ( <b>Bronze Medal Lecture</b> )
4:50 PM - 5:10 PM	<b>Surface and Interface Chemistry of Nanocrystals for optoelectronics</b> By Prof. R. Geetha Balakrishna, Jain University-Bangalore ( <b>Bronze Medal Lecture</b> )
5:10 PM - 5:30 PM	<b>Polymer Crystallization-Driven Functional Two-Dimensional Assemblies</b> Prof. Anindita Das, IACS, Kolkata ( <b>ACES-CRSI Early Career Award</b> )
5:40 PM - 7:00 PM	Awards Ceremony and General Body Meeting
<b>Day 3: SATURDAY, 06 July 2024</b>	
<b>Session 1: Chair: Prof. Asit Chakraborty, IACS Kolkata</b>	
9:30 AM - 10:00 AM	<b>A Sustainable Approach to Store CO<sub>2</sub> Permanently via Clathrate Hydrates</b> Prof. Praveen Linga, National University of Singapore ( <b>ACS Lecture</b> )
10:00 AM - 10:30 AM	<b>Advanced Energy Materials for Clean Energy Conversion</b> Prof. Taramani Nagaiah, IIT Ropar ( <b>AVR Lecture</b> )
10:30 AM - 10:50 AM	<b>Sustainable Synthesis of Next Generation of Responsive Polymers</b> Prof. Sanjib Banerjee, IIT Bhilai ( <b>Bronze Medal Lecture</b> )
10:50 AM - 11:20 AM	Tea Break and Networking

Session 2: Chair: Prof. Swagata Dasgupta, IIT Kharagpur

11:20 AM - 11:50 AM	<b>The Role and Relevance of Chemistry in the Industry 5.0 Driven Interdisciplinary Space</b> Prof. Narahari Sastry, NEIST, Jorhat ( <b>Silver Medal</b> )
11:50 AM - 12:20 PM	<b>Deciphering Methytransferase Mediated Mechanism of Antibiotic Resistance</b> Prof. Ruchi Anand, IIT Bombay ( <b>Charusita Chakravarty Lecture</b> )
12:20 PM - 12:40 PM	<b>Rapid Estimation of Kinetic Barriers in (Bio)Molecular Systems</b> Prof. Neelanjana Sengupta, IISER Kolkata ( <b>Bronze Medal Lecture</b> )
12:40 PM - 2:00 PM	Lunch Break

Session 3: Co-Chairs: Dr. Rajeev Rehani Budhdev, Head, API R&D, IPDO, Dr. Reddy's Laboratories Ltd. And Prof. Mahesh Hariharan, IISER, Thiruvananthapuram

2:00 PM - 2:20 PM	<b>Synthesis of Functional <math>\pi</math>-Conjugated Small Molecules: From Structure to Function</b> Dr. Surya Prakash Singh, ICT, Hyderabad ( <b>Bronze Medal Lecture</b> )
2:20 PM - 2:40 PM	<b>Engineering Molecular Complexes for Efficient Catalysis and Sustainable Energy Harvesting</b> Prof. Maheswaran Shanmugam, IIT Bombay ( <b>Bronze Medal Lecture</b> )
2:40 PM - 3:00 PM	<b>Hierarchical Structure Formation in Poly(lactides): Role of Polymer Chain Packing on the Emissive Properties of Chromophore Embedded Poly(Lactide)s</b> Dr. Bhoje Gowd Erathimanna, CSIR-NIIST, Thiruvananthapuram ( <b>Bronze Medal Lecture</b> )
3:00 PM - 3:20 PM	<b>Metal-Free Synthesis of Bioactive Molecules</b> Prof. Satyendra Kumar Pandey, BHU ( <b>Bronze Medal Lecture</b> )
3:20 PM - 3:40 PM	<b>Vinylogy for Enantioselective Desymmetrization</b> Prof. Ravi Prakash Singh, IIT Delhi ( <b>Bronze Medal Lecture</b> )
3:40 PM - 4:00 PM	Announcement and Presentation of Poster Awards
4:00 PM - 4:05 PM	Announcement of CRSI NSC-34 at IISER Bhopal
4:05 PM - 4:20 PM	Vote of Thanks by CRSI Secretary and Organizing Secretary (CRSI-DRL) and convenor and co-convenor
4:20 PM - 4:45 PM	Tea Break and Departure