

# **Program Schedule**

**30<sup>th</sup> CRSI-NSC**

# 30<sup>th</sup> CRSI-National Symposium in Chemistry

Venue: Audi 1, Convention Centre, JNU

February 03, 2023 (Friday)

08:30-09:30

**REGISTRATION**

09:30-10:45

**INAUGURATION**

&

Presidential Address by

President CRSI, **Prof. Vinod K. Singh, IIT Kanpur**

10:45-11:15

**Tea/Coffee Break**

**Session 1**  
**11:15-13:05**

**Junjappa-Ila Endowment Lecture 2023**

**Chairperson:** Prof. S. Chandrasekaran, IISc., Bangalore

11:15-11:55

*Prof. Goverdhan Mehta, HCU, Hyderabad*

**Title:** Chemistry – A Pivotal Science for Sustainability of People and the Planet

**CRSI Silver Medal Lecture**

**Chairperson:** Prof. T. Punniyamurthy, IIT Guwahati

11:55-12:25

*Prof. Krishna Nand Singh, Banaras Hindu University, Varanasi*

**Title:** Some Advancements in Organic Synthesis Using New Synthons and Decarboxylative Coupling Reactions

**CRSI Bronze Medal Lectures**

**Chairperson:** Dr. Vijay Pal Singh Rawat, SCMM, JNU

12:25-12:45

*Dr. Rodney A. Fernandes, IIT Bombay*

**Title:** Total Synthesis of  $\gamma$ -Lactone and THF Natural Products

12:45-13:05

*Dr. Debasis Banerjee, IIT Roorkee*

**Title:** Hydrogen Borrowing and Interrupted Hydrogen Borrowing Catalysis; Applications and Mechanistic Studies

13:05-14:00

**Lunch Break and Photo Session**

14:00-16:00

**POSTER PRESENTATIONS-I (Poster Nos. P001-P130)**

**Chairpersons:** Prof. Bijoy Kuanr, SCNS, JNU; Prof. Parthasarathi Das, IIT-ISM, Dhanbad; Prof. G. Sekar, IIT Madras; Prof. Ravi P. Singh, IIT, New Delhi; Dr. D. K. Mohapatra, CSIR-IICT, Hyderabad; Dr. Jaideep Saha, CBMR, Lucknow; Dr. Dinabandhu Das; Dr. Debamalya Roy, DRDO - DMSRDE, Kanpur; Dr. Pijus K. Sasmal, SPS, JNU, and Dr. Manoj Munde, SPS, JNU.

14:00-15:30

**COUNCIL MEETING**

Only for Council Members, **Venue:** Meeting Room Convention Center, JNU

15:30-16:00

**Tea/Coffee Break**

**Session 2**  
**16:00-18:20**

**CRSI Medal Lecture**

**Chairperson:** Prof. Sourav Pal, Ashoka University, Haryana

16:00-16:30

*Prof. Sanjay Mathur, University of Cologne, Germany*

**Title:** Chemically Processed Functional Ceramics for Energy and Health Applications

### CRSI Bronze Medal Lectures

**Chairperson:** Prof. Uday Maitra, IISc. Bangalore & Prof. Kamal K. Kapoor, Jammu University

16:30-16:50	<b>Dr. Sakya Singha Sen</b> , CSIR-NCL Pune <b>Title:</b> The Chemistry of Silicon in Low Oxidation State
16:50-17:10	<b>Dr. Sujit Kumar Ghosh</b> , IISER Pune <b>Title:</b> Functional Advanced Microporous Materials for Industrially Relevant Hydrocarbons Separation
17:10-17:30	<b>Dr. Tharamani C. Nagaiah</b> , IIT Ropar <b>Title:</b> Hydrogen production from waste H <sub>2</sub> S pollutant
17:30-17:50	<b>Prof. Basker Sundararaju</b> , IIT Kanpur <b>Title:</b> Does Oxidation State Matter in Cobalt-Catalyzed Sustainable Transformations?
17:50-18:20	<b>SPECIAL SESSION</b> <i>RSC Presentation and Discussion on the Draft of "Gender Diversity in India"</i>
19:00 Onwards	<b>Dinner</b>

## 30<sup>th</sup> CRSI-National Symposium in Chemistry

February 04, 2023 (Saturday)

<b>Session 3</b> <b>09:30-11:00</b>	<b>CNR Rao Award Lecture</b> <b>Chairperson:</b> Prof. K. N. Ganesh, IISER, Tirupati
9:30-10:00	<b>Prof. Ram Sheshadri</b> , University of California, Santa Barbara <b>Title:</b> Chemistry and Design in Magnetic and Battery Materials

### CRSI Bronze Medal Lecture

**Chairperson:** Prof. J. K. Bera, IIT Kanpur & Prof. G. Mugesh, IISc. Bangalore

10:00-10:20	<b>Prof. Kothandaraman Ramanujam</b> , IIT Madras, Chennai <b>Title:</b> In-situ Restoration of Energy Delivery in an Organic Flow Battery
10:20-10:40	<b>Dr. J. Sankar</b> , IISER, Bhopal <b>Title:</b> Near-IR Absorbing and Emitting Terrylene Diimides
10:40-11:00	<b>Dr. KRS Chandra Kumar</b> , BARC, Mumbai <b>Title:</b> Theoretical Insights into the Activation of Covalent Bonds under Nanoconfinement
11:00-11:30	<b>Tea/Coffee Break</b>

<b>Session 4</b> <b>11:30-12:50</b>	<b>CRSI Bronze Medal Lectures</b> <b>Chairperson:</b> Prof. H. N. Ghosh, BARC, Mumbai & Prof. Ranjana Aggarwal, CSIR- NIScPR, New Delhi
11:30-11:50	<b>Prof. M. Sankar</b> , IIT Roorkee <b>Title:</b> $\pi$ -Extended Porphyrins and Their Analogues: Synthesis, Spectral, and Redox Properties and Their Application in Sensing, Nonlinear Optics and Catalysis
11:50-12:10	<b>Dr. Debaraj Mukherjee</b> , Bose Institute, Kolkata

12:10-12:30	<p><b>Title:</b> Recent Development on Construction of Various Aromatic Chiral Cores from Glycols</p> <p><b>Dr. P. C. Ravi Kumar</b>, NISER Bhubaneswar</p> <p><b>Title:</b> Palladium-Catalyzed C-C bond Cleavage of Carbocyclic Strained Systems: A Useful Strategy in Organic Synthesis</p>
12:30-12:50	<p><b>Dr. S. A. Babu</b>, IISER Mohali</p> <p><b>Title:</b> Palladium-(II)-Catalyzed C-H Functionalization of Diastereotopic C-H Bonds</p>

12:50-14:00 **Lunch Break**

14:00-16:00 **POSTER PRESENTATIONS-II (Poster Nos. P131-P262)**

**Chairpersons:** Dr. Raja Angamuthu, IIT, Kanpur; Dr. Arnab Bhattacharjee, SCIS, JNU; Dr. Neel S. Bhavesh, ICGEB, New Delhi; Dr. Anil Kumar, BITS Pilani; Dr. Srabani Taraphder, IIT Kharagpur; Dr. Ankita Rai, SPS, JNU; Dr. Supriya Sabbani, SPS, JNU; Dr. Vijay Goel, SPS, JNU and Dr. Amit Kumar, IIT Patna

15:30-16:00 **Tea/Coffee Break**

**Session 5**  
**16:00-18:50**

**Gold Medal Lecture**

**Chairperson:** Prof. Vinod K. Singh, President CRSI and Prof. N. Sathyamurthy, IISER Mohali

16:00-16:40 **Prof. Vishwakarma Singh**, IIT Bombay

**Title:** Molecular Complexity from Aromatics: Concept, Strategy, and Reality

16:40-17:20 **Prof. S. Ramasesha**, IISc. Bangalore

**Title:** Importance of Electron Repulsions

17:20-18:50 **Presentation of Medals and General Body Meeting**

19:30 onwards **Dinner**

## 30<sup>th</sup> CRSI-National Symposium in Chemistry

February 05, 2023 (Sunday)

**Session 6**  
**09:30-10:30**

**CRSI Bronze Medal Lecture**

**Chairperson:** Prof. A. K. Ganguli, IIT Delhi & Prof. Rajiv Bhat, SBT, JNU

09:30-9:50 **Dr. Prathama Mainker**, CSIR-IICT, Hyderabad

**Title:** Easy access to diverse natural products through aryne insertion

09:50-10:10 **Dr. Amit Kumar**, IIT Patna

**Title:** Glycosylation and Glycodiversification: An Important aspect of Carbohydrate Chemistry

10:10-10:30 **Dr. Joydev Laha**, NIPER Mohali

**Title:** Opportunities and Challenges in the Synthetic Process Development for Pharmaceuticals

10:30-11:00 **Tea/Coffee Break**

**Session 7**  
**11:00-12:00**

**Presentation by DRDO Delegate and BARC**

**Chairperson:** Prof. Ram Vishwakarma; CSIR Distinguished Scientist, CDRI Lucknow & Prof. D. S. Rawat, University of Delhi

11:00-11:20

**Dr. Debmalya Roy**, DMSRDE, DRDO, Kanpur

**Title:** Unravelling the Role of Nanofillers to Polymer Matrix Interactions in Conductive Inks for Printable Electronics

11:20-11:40

**Dr. Jyotirmayee Mohanty**, BARC, Mumbai

**Title:** Cucurbituril-based Supramolecular Assemblies: Prospective Applications

11:40-12:00

**Dr. Puja Panwar Hazari**, INMAS (DRDO), Delhi

**Title:** Cyclotron-Produced Innovative Radionuclides for Theranostic Applications

**Session 8**  
**12:00-12:30**

**Animesh Chakravorty Endowment Lecture 2023**

**Chairperson:** Prof. S. Chandrasekhar, Secretary DST, New Delhi

12:00-12:30

**Prof. Richard Winpenny**, University of Manchester, UK

**Title:** From Rings to Nanostructures

12:30-12:50

**CRSI-ACS Best Poster Awards**

12:50-13:00

**Dr. Rupam Dinda**, NIT, Rourkela

**Presentation by Organizers of 31<sup>st</sup> CRSI-NSC from Rourkela**

13:00-13:10

**Concluding Remarks**

**Prof. Vinod K. Singh**, President CRSI

13:10-13:30

**Vote of Thanks**

**Prof. Neelima Gupta**, Secretary, CRSI

**Co- Convenor 30<sup>th</sup> CRSI-NSC, JNU**

13:30-14:30

**Lunch and Departure**