

24th CRSI National Symposium in Chemistry (NSC-24)

PROGRAMME

Friday, 8th February 2019

Venue: Triple Helix Auditorium, CSIR-CLRI

08:30 - 09:30	Registration Venue: Triple Helix Auditorium, CSIR-CLRI
SESSION I: INAUGURATION AND PRESIDENTIAL ADDRESS:	
09:30 - 10:30	Prof. N. Sathyamurthy Title: Some aspects of the carbon family
10:30 - 11:00	HIGH TEA
SESSION II: SPECIAL LECTURE AND AWARD LECTURES	
11:00 - 11:45	CHAIRPERSON: Dr. T. Ramasami
11:00 - 11:45	Special Lecture Bharat Ratna Prof. C. N. R. Rao, National Research Professor and Linus Pauling Research Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore Title: Remarkable Effects of Aliovalent Anion Substitution on the Electronic Structure and Properties of Metal Oxides and Sulfides
SESSION III: SPECIAL LECTURE AND AWARD LECTURES	
11:00 - 13:15	CHAIRPERSON: Prof. V. Krishnan
11:45 - 12:30	C. N. R. Rao Award Lecture Prof. Prashant V Kamat, University of Notre Dame, USA Title: Semiconductor Nanostructures for Next Generation Photovoltaics
12:30 - 13:15	S. Chandrasekaran Endowment Lecture Prof. Masakatsu Shibasaki, Institute of Microbial Chemistry, Tokyo, Japan Title: Recent Progress in Cooperative Asymmetric Catalysis
13:15 - 14:00	LUNCH
14:00 - 16:00	POSTER SESSION I Posters No. 1 to 108 Venue: First Floor, CSIR-CLRI Canteen
14:00 - 15:00	COUNCIL MEETING (Members only) Venue: Heritage Hall, CSIR-CLRI
15:30 - 16:00	TEA BREAK
SESSION IV: MEDAL AND SPECIAL LECTURES	
16:00 - 18:40	CHAIRPERSON: Prof. Sourav Pal
16:00 - 16:30	CRSI Honorary Fellowship Lecture Prof. Sir David Clary, University of Oxford, UK Title: Quantum Tunneling in Chemical Reactions
16:30 - 17:00	Second Charusita Chakravarty Memorial Lecture Dr. Jyothirmayee Dash, IACS, Kolkata Title: DNA Quadruplexes for Dynamic Template-Assisted Synthesis and Ion-Channels
17:00 - 17:20	Bronze Medal Lecture Dr. Tushar Jana, University of Hyderabad, Hyderabad Title: Glycopolymer Coated Nanoparticles: A Step Towards the Development of Vaccine

17:20 – 17:40	Bronze Medal Lecture Dr. Kanishka Biswas , JNCASR, Bangalore Title: Ultra-low Thermal Conductivity in Metal Chalcogenides for High Performance Thermoelectric Energy Conversion
17:40 – 18:10	C. N. R. Rao National Prize for Chemical Research Dr. Sankar Prasad Rath , IIT Kanpur, Kanpur Title: Diheme Enzyme MauG: Nature's Sniper for Long-range Electron Transfer
18:10 – 18:40	CRSI Honorary Fellow Lecture Prof. Peter J. Sadler , University of Warwick, UK Title: Design of Metallodrugs with New Mechanisms of Action
19:45 – 21:30	DINNER

Saturday, 9 February 2019

Venue: Triple Helix Auditorium, CSIR-CLRI

SESSION V: SPECIAL LECTURES	
09:00 – 10:30	CHAIRPERSON: Prof. S. Chandrasekaran
09:00 – 09:30	Special Lecture Prof. Erick M. Carreira , Swiss Federal Institute of Technology (ETH), Zürich Title: Stereodivergency and Synthesis of Bioactive, Medicinally Relevant Agents
09:30 - 10:00	Special Lecture Prof. Gunda I. Georg , University of Minnesota, USA Title: Discovery of bromodomain inhibitors for cancer and male contraception
10:00 – 10:30	Special Lecture Dr. Jennifer M. Heemstra , B. S. University of California, Irvine Title: Small-Molecule Detection and Enantiopurity Measurement using DNA-Based Sensors
10:30 – 11:00	TEA BREAK
SESSION VI: CRSI MEDAL LECTURE	
11.00 – 11.30	CHAIRPERSON: Dr. S. N. Jaisankar
11.00 – 11.30	CRSI Medal Lecture Prof. Ajayan Vinu , University of NewCastle, Australia Title: Advanced Nanoporous Nitrides for Energy and Environmental Applications
SESSION VII: THEMATIC MINI-SYMPOSIUM ON ENERGY MATERIALS	
11:30 – 13:10	CHAIRPERSON: Prof. K. P. Kaliappan
11:30 – 11:50	Invited Lecture 1 Prof. S. Sankararaman , IIT Madras, Chennai Title: Organic Redox Flow Batteries: An Emerging Area in Organic Chemistry for Energy Storage Application

11:50 – 12:10	Invited Lecture 2 Prof. T. Pradeep, IIT Madras, Chennai Title: Clathrate hydrates in interstellar environment
12:10 – 12:30	Invited Lecture 3 Dr. T. Narasimhaswamy, CSIR-CLRI, Chennai Title: Structural Investigations of π -Conjugated Mesogens
12:30 – 12:50	Invited Lecture 4 Dr. K. Ramesha, CSIR-CECRI, Chennai Title: Development of high energy density Lithium-Sulphur Batteries
12:50 – 13:10	Invited Lecture 5 Dr. S. K. Asha, CSIR-NCL, Pune Title: Naphthalenediimide Polymers for Energy Generation and Energy Storage
13:10-14:00	LUNCH
14:00-16:00	POSTER SESSION II Poster No. 109-215 Venue: First Floor, CSIR-CLRI Canteen
15:30 – 16:00	TEA BREAK
SESSION VIII: MEDAL LECTURES	
16:00 – 17:10	CHAIRPERSON: Prof. R. Murugavel
16:00– 16:30	Silver Medal Lecture Prof. J. Narasimha Moorthy, IIT Kanpur, Kanpur Title: Molecules to Stimuli- Responsive Organic Materials: Bottom-Up Control by De Novo Design
16:30 – 16:50	Bronze Medal Lecture Prof. R. Vaidhyanathan, IISER Pune Title: Covalent Organic Framework: Two-dimensional Crystalline Organic Polymers for Energy Applications
16:50 – 17:10	Bronze Medal Lecture Dr. Samrat Mukhopadhyay, IISER Mohali Title: Molecular Drivers of Phase Transition of Intrinsically Disordered Proteins
SESSION IX: LIFETIME ACHIEVEMENT AWARD LECTURE	
17:10 – 19:10	CHAIRPERSON: Prof. N. Sathyamurthy
17:10 – 17:50	Prof. Hiriyakkanavar Junjappa, Bangalore University, Bangalore Title: Applications of α - Oxoketenedithioacetals for the Synthesis of Five, Six membered Heterocycles and Aromatics/Heteroaromatics
17:50 – 19:10	General Body Meeting and Presentation of Medals/Awards
19:30 – 21:30	CONFERENCE DINNER

Sunday, 10 February 2019

Venue: Triple Helix Auditorium, CSIR-CLRI

SESSION X: MEDAL LECTURES	
09:00 – 10:40	CHAIRPERSON: Prof. A K Mishra
09:00 – 09:30	Silver Medal Lecture Prof. Ashok K. Ganguli , IIT Delhi, New Delhi Title: Design of Nanostructures for Photoelectrochemical Applications
09:30 – 10:00	Silver Medal Lecture Prof. G. Mugesh , IISc, Bangalore Title: Iodine in Thyroid Hormone Action and Membrane Transport
10:00 – 10:20	Bronze Medal Lecture Dr. Akkattu T. Biju , IISc, Bangalore Title: Organocatalysis using N - Heterocyclic Carbenes (NHCs)
10:20 – 10:40	Bronze Medal Lecture Prof. Santosh J. Gharpure , IIT Bombay, Mumbai Title: Diverse Functionalization of Alkynes for the Synthesis of Heterocycles
10:40 – 11:10	TEA BREAK
SESSION XI: MEDAL LECTURES	
11:10 – 12:50	CHAIRPERSON: Prof. Archita Patnaik
11:10 – 11:30	Bronze Medal Lecture Dr. Kannan Srinivasan , CSIR- CSMCRI, Bhavnagar Title: Biomass to Chemicals and Polymers - Opportunities & Challenges
11:30 – 11:50	Bronze Medal Lecture Prof. Swadhin K. Mandal , IISER Kolkata Title: Transition Metal-Free C-C Coupling Catalysis
11:50 – 12:10	Bronze Medal Lecture Dr. C. H. Suresh , CSIR-NIIST, Trivandrum Title: Structure and Bonding in Metallacycles of CC Bond Metatheses and Metal-incorporated Carbon Frameworks
12:10 – 12:30	Bronze Medal Lecture Prof. Farukh Arjmand , Aligarh Muslim University, Aligarh Title: Spectroscopic and Single X-ray Crystallographic Studies of Metallic Cancer Chemotherapeutic Drug Candidates Obtained from Bioactive Ligand Scaffolds
12:30 – 12:50	Bronze Medal Lecture Prof. Debasis Das , University of Calcutta, Kolkata Title: Synthetic Analogues of Catechol Oxidase and Phosphatase: A Journey to Develop True Mimic
12:50 – 13:20	Concluding Remarks
13:20 – 14:30	LUNCH AND DEPARTURE