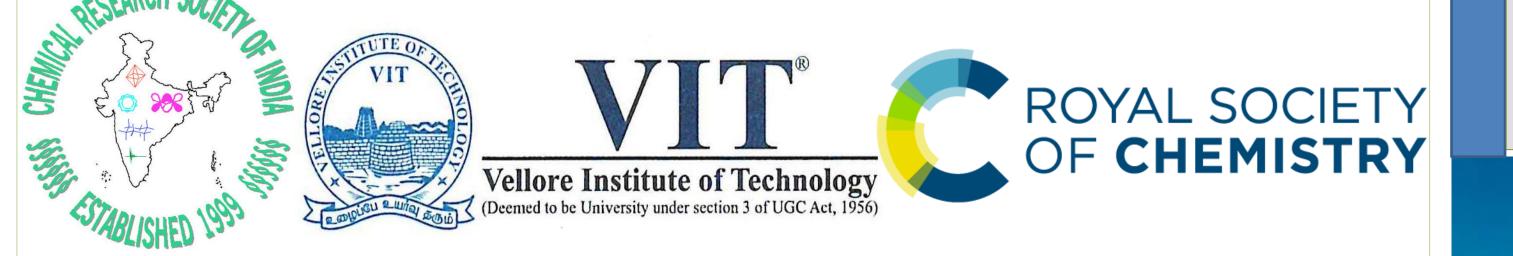
Chemical Research Society of India

26th National Symposium in Chemistry (CRSI-NSC-26)

February 07-09, 2020 14th CRSI-RSC Joint Symposium Feb 06, 2020



Organized by **Department of Chemistry School of Advanced Science, VIT Vellore**

About CRSI

About VIT, Vellore

Vellore Institute of Technology (VIT) was founded in 1984, as Vellore Engineering College (VEC) by Dr. G. Viswanathan, the Chancellor. VIT's academic excellence has attracted students from all the states of the country and more than 53 foreign countries. VIT has extensive international collaboration through more than 250 active MoUs with reputed Universities. Recently, Govt. of India recognizes VIT as an Institution of Eminence (IoE). FFCS (Fully flexible credit system), PBL (project based learning), fully digitized academic portals provide students futuristic education and plenty of opportunities for career growth. The department of Chemistry has been maintaining quality in teaching and research, currently 63 faculty members on roll. It publishes about 250 quality SCOPUS indexed publications in peer reviewed journals. It has expertise in many frontier areas of chemistry and is well equipped with necessary equipment. The Department is DST-FIST recognized.

> Govt. of India recognizes VIT as an Institution of Eminence (IoE)

The Chemical Research Society of India (CRSI) was established in 1999 as part of the 50th anniversary celebrations of the country's independence. Currently, CRSI represents more than 2300 lifetime members, who participate in the study, practice, teaching and promotion of Chemistry. The main objectives of the CRSI are to recognize, promote, foster talent in Chemistry and Chemical Sciences and to improve the quality of Chemical Education at all levels. The CRSI organizes conferences, seminars, workshops and other related programs to facilitate and promote research in all branches of Chemistry. The society has active collaboration with the Royal Society of Chemistry (RSC) London, American Chemical Society (ACS), Asian Chemical Editorial Society (ACES), the German Chemical Society (GDCh) and the French Chemical Society.

Governing body of CRSI	
President	Prof. N. Sathyamurthy, Former Director, IISER Mohali
Immediate Past President	Prof. Sourav Pal, IISER Kolkata, Kolkata
Founder President	Bharat Ratna Prof. C. N. R. Rao, JNCASR, Bangalore
Vice Presidents	Prof. S. Chandrasekhar, CSIR-IICT, Hyderabad Prof. R. Murugavel, IIT Bombay, Mumbai Prof. D. Ramaiah, CSIR-NEIST, Jorhat Prof. Vinod K. Singh, IIT Kanpur, Kanpur

Organizing Committee CHIEF PATRON Dr. G. Viswanathan Chancellor

PATRONS

Mr. Sankar Viswanathan Vice President Dr. Sekar Viswanathan **Vice President** Mr. G V Selvam **Vice President** Dr. Sandhya Pentareddy **Executive Director** Ms. Kadhambari S. Viswanathan **Assistant Vice President**

> **ADVISORS** Dr. Anand A Samuel **Vice Chancellor** Dr. S. Narayanan

Credentials of VIT



MARY & LEWIS L

Govt. of India has recognized VIT, Vellore as an Institution of Eminence (IoE)



NIRF(National Institutional Ranking Frame work) No.18 in Engineering Institution-2019 No.19 in University -2019 No.46 in Management Institution-2019



NAAC (National Assessment and **Accreditation Council** Accredited in 2015-A grade Accredited in 2009 Completed 3 Cycles of Accreditation



UGC graded autonomy in 2018 Government endorsed recognition for VIT



The subject Chemistry of VIT is ranked at 550 in world in QS subject ranking

Conference Website & Email Address

https://vit.ac.in/CRSL_crsi2020vit@gmail.com

Vice President & Secretary General	Prof. G.	Mugesh, IISc, Bangalore	Pro- Vice Chancellor Dr. K. Sathiyanarayanan Registrar	https://www.crsi-india.org	
Secretaries		tish Patil, IISc, Bangalore Govindaraju, JNCASR, Bangalore	CONFERENCE CHAIR	Registratio	n Fee
Treasurer	Prof. Kr	ishna P. Kaliappan, IIT Bombay, Mumbai	Dr A. Mary Saral Dean	Delegate (Industry)	Rs. 10,000/-
Joint Secretaries	Prof. K.	Phukan, Gauhati University, Guwahati R. Prabhu, IISc, Bangalore	CONVENER Dr. R. Vijayaraghavan ORGANIZING SECRETARIES	Delegate (Academic)	Rs. 6,000/-
Dr. C. V. Ramana, CSIR-NCL, Pune Prof. A. K. Tyagi, BARC, Mumbai		• •	Dr. Kaushik Chanda Dr. Priyankar Paira	Life member, CRSI	Rs. 4,000/-
Joint Treasurer	Prof. P.	Gautam, Anna University, Chennai	The participants are requested to complete online registration and pay the registration fee via the online portal. The registration fee is non-refundable and it	Students (Life Members-Old)	Rs. 2,000/-
		Aembers	includes full participation, conference kit, lunch/dinner/refreshments. Although there is no separate registration fee for attending the CRSI-RSC	Students (Life Members-New)	Rs. 0*#
Dr. Rakeshwar Bandichhor, Dr. ReddysProf. Surinder Kumar Mehta, Panjab ULab, HyderabadChandigarhProf. Vandana Bhalla, GNDU, AmritsarProf. Lallan Mishra, BHU, Varanasi		Chandigarh Prof. Lallan Mishra, BHU, Varanasi	Joint Symposium on February 6, 2020, the interested participants must select this option during the registration.	Accompanying person	Rs. 3,000/-
Prof. J. K. Bera, IIT Kanpur, Kanpu Dr. Amitava Das, CSIR-CSMCRI, Bhavnagar	Jr	 Prof. S. Muthusamy, Bharathidasan University, Tiruchirappalli Prof. Amiya Kumar Panda, Vidyasagar 	Abstract	Foreign Delegate	US \$ 200
Prof. Swagata Dasgupta, IIT Khar Kharagpur	ragpur,	University, Midnapore Prof. T. Punnivamurthy, IIT Guwahati,	Interested participants may submit an abstract of their original research work for poster presentation. Abstract	Important	Dates

Prof. Ramesh C. Deka, Tezpur University, Tezpur

Prof. K. George Thomas, IISER

Thiruvananthapuram

Prof. Ashutosh Ghosh, Calcutta

University, Kolkata

Prof. Pradyut Ghosh, IACS Kolkata **Prof. Prasenjit Ghosh,** IIT Bombay, Mumbai

Prof. Neelima Gupta, University of Rajasthan, Jaipur Prof. Rama Kant, University of Delhi, Delhi

About the Symposia

The 26th CRSI National Symposium in Chemistry (CRSI NSC-26) will be held in VIT Vellore during Feb. 7-9, 2020 under the auspices of the Chemical Research Society of India (CRSI). On behalf of the organizing committee, we cordially invite you to attend this prestigious symposium. The symposium includes medal lectures and poster presentations apart from special lectures by eminent chemists from India and abroad. The symposium aims to promote exchange of ideas and creates an opportunity for collaborative endeavors in frontier interdisciplinary areas. We look forward to your participation and presence in the symposium. In addition, a one-day CRSI-RSC joint symposium will be held on February 6, 2020 at VIT Vellore.

Guwahati

Prof. N. G. Ramesh, IIT Delhi, New Delhi Prof. Anunay Samanta, University of Hyderabad, Hyderabad

Prof. G. Sekar, IIT Madras, Chennai Prof. A. Srinivasan, NISER, Bhubaneswar Dr. P. Sujatha Devi, CSIR-CGCRI, Kolkata Prof. V. V. Sureshbabu, Bangalore University, Bangalore

Prof. Anirban Misra, University of North Bengal, Siliguri

Prof. Sandeep Verma, IIT Kanpur, Kanpur

template, the process of abstract submission, and poster size can be obtained from the conference website.

Accommodation

All the speakers will be provided accommodation. For other delegates, information regarding accommodation can be obtained from the conference website.

***IMPORTANT NOTE**

The registration fee of Rs. 2000 is applicable to only those students who are currently members of the CRSI. It is mandatory for the students to become a Life Member of CRSI to attend meetings and/ or present posters. If a student becomes a Life Member of the CRSI after paying Rs. 5000 (discounted fee), his/her registration fee will be waived for CRSI NSC-26, and for him/her only the accommodation fee of Rs. 500 per student per night will have to be paid. For more information about the CRSI membership, please visit www.crsi-india.org. A Life time membership card will be sent to all the student members and they can avail the membership benefits such as discount on the registration fee etc. for all future CRSI conferences.

*Outstation student participants will be provided accommodation in suitable places on payment of Rs. 500 per student per night (sharing basis) along with the registration fee to avail this facility.

Symposium Feb. 06-09, 2020

Last date for Registration & Fee Payment: Jan. 25, 2020

Last date for Abstract Submission: Dec. 31, 2019

14th CRSI-RSC Joint Symposium on February 06, 2020



26th CRSI National Symposium in Chemistry (NSC-26) Programme

Friday, 7 February 2020, Venue- Ambedkar Auditorium, Technology Tower, **Ground Floor, 9.30 to 18.05**

08:30 - 09:30	Registration
SESSION I: INAUG	URATION AND PRESIDENTIAL ADDRESS
09:30-10:30	
10:30 - 11:00	HIGH TEA
SESSION II: SPECIA	AL LECTURES CHAIRPERSON: V. Krishnan
11:00 - 11:45	Animesh Chakravorty Endowment Lecture
	A. S. Borovik , University of California-Irvine, USA Molecular Complexity and Inorganic Chemistry: Utilizing Non-Covalent
	Interactions to Control Function
11:45 - 12:15	CRSI Medal Lecture Arun Yethiraj , University of Wisconsin-Madison, USA Polymers in ionic liquids
12:15 - 12:45	C. N. R. Rao National Prize for Chemical Research G. U. Kulkarni, JNCASR, Bangalore Au decahedra: Unusual nucleus for unconventional lattices
12:45 - 16:00	LUNCH AND POSTER SESSION I, Foodys Posters No. 1 to 61
14:00 - 15:00	COUNCIL MEETING (Members only), Board Room, MGR Block
15:30 - 16:00	TEA/COFFEE
SESSION III: MEDA	AL AND SPECIAL LECTURES CHAIRPERSON: S. Chandrasekaran
16:00 - 16:45	CRSI Honorary Fellowship Lecture Sunney I. Chan, Academia Sinica, Taiwan Taming Methane: A catalyst for Efficient and Selective Methane Oxidation under Ambient Conditions
16:45 - 17:05	Bronze Medal Lecture Ranjani Viswanatha, JNCASR, Bangalore Mn emission: Energy transfer or Charge transfer
17:05 - 17:25	Bronze Medal Lecture Manmohan Kapur, IISER, Bhopal Transition-metal-catalyzed Distal and Remote Functionalizations
17:25 - 17:45	Bronze Medal Lecture Rajakumar Balla, IIT Madras Measurement of absorption cross-sections and kinetics of radicals relevant to the Earth's atmosphere using Cavity Ring Down Spectroscopy

17:45 - 18:05	Bronze Medal Lecture S. G. Srivatsan, IISER, Pune Probing Mood (Structure) Swings of Non-Canonical Nucleic Acid Motifs
18:15 - 19:15	CULTURAL PROGRAM, Anna Auditorium
19:30 - 21:30	DINNER, Foodys

Saturday, 8 February 2020, Venue: Gallery -2, Tech, Tower, 2nd Floor

9.30 to 18.15

SESSION IV: SPEC	IAL/MEDAL LECTURESCHAIRPERSON: Sourav Pal
09:30 - 10:15	C. N. R. Rao Award Lecture
	Richard Catlow , University College London, UK Modeling, Synchroton Radiation and Neutron Scattering Studies of Structure, Dynamics and Reactivity in Catalytic Systems
10:15 - 10:45	Silver Medal Lecture
10:45 - 11:15	K. Vijayamohanan Pillai, IISER, Tirupati Phosphorene Quantum Dots: Electrochemical Preparation, Doping and Possible Applications TEA/COFFEE
SESSION V: MEDA	,
11.15 - 12.00	Mizushima - Raman Lecture
	Tahei Tahara, Riken, Wako, Japan Time-Domain Raman Spectroscopy and Its Application to Ultrafast Photochemical / Photobiological Reactions
12.00 - 12.30	CRSI Medal Lecture
	Jagadese J. Vittal , National University of Singapore, Singapore My Journey with Crystals under UV Light and beyond
12.30 - 13.00	Third Charusita Chakravarty Memorial Lecture
	Srabani Taraphder , IIT Kharagpur Reaction Coordinate, Free Energy and Kinetics in an Enzyme Catalysed Proton Transfer Reaction
13:00 - 16:00	LUNCH AND POSTER SESSION II Venue – Foodys Poster No. 62-122
15:30 - 16:00	TEA/COFFEE

SESSION VI: MEDAL LECTURES CHAIRPERSON: K. F	
16:00-16:30	Silver Medal Lecture
	Subrata Chash IACS Kallasta
	Subrata Ghosh, IACS, Kolkata
	Natural Products Synthesis – Some Fascinating Aspects
16:30 - 16:50	Bronze Medal Lecture
	Mahesh Hariharan, IISER, Trivandrum
	Ultrafast Excited State Dynamics of Twisted Aromatics
16:50 - 17:10	Bronze Medal Lecture
	Ashwani Kumar Tiwari, IISER, Kolkata
	Effects of Mode-Mode Coupling on the Dissociation Dynamics of H ₂ O and
	CH ₄ on Metal Surfaces
SESSION VII: LIFETIME ACHIEVEMENT AWARD LECTURE CHAIRPERSON: N. Sathyamurthy	
17:10 - 18.00	T. Ramasami, CSIR-CLRI Chennai
	A Story of an evolution of a chemist
18:00 - 19:15	General Body Meeting and Presentation of Medals/Awards
19:30 - 21:30	CONFERENCE DINNER, Foodys & Greeno

Sunday, 9 February 2020, Gallery -2, Tech, Tower, 2nd Floor, 9.30 to

13.15

SESSION VIII: MED	AL LECTURES CHAIRPERSON: G. Sekar
09:30 - 09:50	Bronze Medal Lecture E. Balaraman , IISER, Tirupati Non-noble metal catalysis: Applications in dehydrogenation and related reactions
09:50 - 10:10	Bronze Medal Lecture Gouriprasanna Roy, IIT Tirupati Biomimetic Studies to understand the mechanism of Hg–C bond protonolysis by mercury-resistant Organomercurial Lyase MerB
10:10 - 10:30	Bronze Medal Lecture Santanu Kumar Pal, IISER, Mohali Highly Efficient Ambipolar Charge Transport in Semiconducting Discotic Liquid Crystals
10:30 - 11:00	TEA/COFFEE

SESSION IX: THEM	ATIC MINI-SYMPOSIUM CHAIRPERSON: S. Muthusamy
11:00 - 11:30	Invited Lecture
	R. Vijayaraghavan, VIT, Vellore
	Development of Sensors & Proto type set up for Fruit Ripening Application
11:30 - 11:50	Invited Lecture
	Hongdoo Kim, Adjunct Faculty, VIT, Vellore
	Hybrid Piezocapacitive / Piezoelectric Sensor Based on Electro spun
	Nanowire Web
11:50 - 12:10	Invited Lecture
	A. Senthilkumar, VIT, Vellore
	Redox Active Organic Molecule Functionalized Carbon Nanomaterials for
	Elegant Electrochemical Immuno-sensing of Shrimp-Virus
12:10 - 12:25	Invited Lecture
	S. Senthilkumar, VIT, Vellore
	Rationally Designed Ionic Liquids for Electrochemical Sensing
12:25 - 12:40	Invited Lecture
	S. K. Ashok Kumar, VIT, Vellore
	New Thorium (IV) Selective Sensors
12:40 - 12:55	Invited Lecture
	S. Sarveswari, VIT, Vellore
	Organic Small Molecules as Chemosensors
12:55 - 13:15	Concluding Remarks
13:15 - 14:15	LUNCH AND DEPARTURE, Basketball court, Opposite to Tech Tower