

SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING (Deemed to be University)



International Symposium

on

Chemistry for a Sustainable Future: Bridging Science and Society

13-14 December 2024

Organised by Department of Chemistry Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam, Puttaparthi Sri Sathya Sai District Andhra Pradesh - 515134

		DAY 1
9:00	AM	Inaugural Session Vedam Chanting, Ceremonial Lighting of the Lamp
9:06	AM	Welcome Address Prof. Rajni Bhandari Head, Department of Chemistry, Sri Sathya Sai Institute of Higher Learning
9:15	AM	Inaugural Address Prof. B. Raghavendra Prasad Vice-Chancellor, Sri Sathya Sai Institute of Higher Learning
9:30	AM	"Electrosynthesis: An Emerging Green and Powerful Strategy in Organic Synthesis" Prof. Gautam Brahmachari
10:20	AM	Laboratory of Natural Products & Organic Synthesis, Department of Chemistry, Visva-Bharati University, Santiniketan, West Bengal "Chemical Concepts and their Role in Designing Nanomaterials for
10.10		Energy and Environmental Applications" Prof. K.R.S. Chandrakumar Scientist 'G', Bhabha Atomic Research Centre, Department of Atomic Energy
		Homi Bhabha National Institute, Mumbai, Maharashtra
11:10	AM	"Development of Efficient Heterogeneous Catalysts for Transfer Hydrogenation, Carbon Dioxide Conversion and Plastic Upcycling Reactions" Prof. Venkata Krishnan School of Chemical Sciences, IIT Mandi, Himachal Pradesh
		Lunch Break (12:00 - 1:15 PM)
1:20	РМ	 "Aligning Clean Air and Climate Action: Selected Insights from a Decade of Atmospheric Chemistry Research Over South Asia to Foster Transdisciplinary Research" Prof. Vinayak Sinha Dept. of Earth and Environmental Sciences, IISER Mohali, Punjab
2:10	PM	"Materials and Processes for Energy Storage Applications"

Dr. B. Venkata Sarada Scientist 'F', Centre for Solar Energy Materials, International Advanced Research Centre for Powder Metallurgy & New Materials, Hyderabad, Telangana

Tea Break (3:00 - 3:20 PM)

3:20 PM Faculty Presentations Department of Chemistry Sri Sathya Sai Institute of Higher Learning

DAY 2

8:45 AM Panel Discussion "Implementing Sustainable Practices in Academia"

9:30 AM "Surface Solutions as Enablers for Sustainable Manufacturing" Dr. Vishal Khetan Global Innovation Manager Coatings, Oerlikon Surface Solutions AG, Liechtenstein

- 10:20 AM "Sun and Sustainability: Materials for Solar-Thermal Conversion" Prof. Chandramouli Subramaniam Department of Chemistry, IIT Bombay, Mumbai, Maharashtra
- 11:10 AM **"The Frontiers of AI Research"** Dr. Sampath Koppole Products and Solutions Lead, Healthcare and Life Sciences, Google, Switzerland

Lunch Break (12:00 - 1:15 PM)

1:20 PM Demonstrations by Student Clubs Department of Chemistry Sri Sathya Sai Institute of Higher Learning

2:10 PM Poster Session Department of Chemistry Sri Sathya Sai Institute of Higher Learning

Tea Break (3:00 - 3:20 PM)

- 3:20 PM Oral Presentations by Research Scholars Department of Chemistry Sri Sathya Sai Institute of Higher Learning
- 4:00 PM Concluding Remarks
- 4:05 PM Vote of Thanks
- 4:10 PM Mangala Arathi to BHAGAWAN SRI SATHYA SAI BABA

ABOUT THE SYMPOSIUM

This international symposium will explore the pivotal role of chemistry in addressing pressing global sustainability challenges. It will feature cutting-edge advancements in green chemistry and innovative approaches to sustainable manufacturing processes. Key discussions will encompass theoretical frameworks and the application of nanomaterials for environmental monitoring and remediation, with a particular emphasis on atmospheric chemistry and sustainable technologies.

Additionally, the symposium will also focus on the intersection of artificial intelligence and its application in developing solutions within healthcare and life sciences that uphold ecological integrity while enhancing human well-being. Participants will explore innovative industrial practices that demonstrate the potential of Chemistry to advance environmental stewardship and strengthen economic resilience.

Through a collaborative exchange of knowledge and insights, this international symposium aims to inspire emerging researchers to enhance their engagement in the ever-sublime theme of sustainability in chemistry.

SYMPOSIUM CHAIRMAN AND CONVENOR Prof. Rajni Bhandari

CO-CONVENOR Dr. V N Ravi Kishore Vutukuri

ORGANIZING SECRETARY Dr. Kumar Sai Smaran

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