

One Day Seminar on Current Trends in Chemistry

Date: 6th March 2025

Venue: Raapjyor Cauvery Hall

Organized by: Department of Chemistry

The Department of Chemistry, Sikkim University under the Patronage of Honourable Vice Chancellor, Professor (Dr.) Jyoti Prakash Tamang organized a one-day seminar on “Current Trends in Chemistry,” bringing students and researchers together to engage in insightful discussions and knowledge exchange on 6th March 2025 at Raapjyor Cauvery Hall, 5th mile, Gangtok. Altogether, 70 delegates were present with participations from Sikkim University (Gangtok), SRM University (Sikkim), SMIT (Majhitar), NIT-Sikkim (Ravangla) and NBU (Darjeeling).

Honourable Vice Chancellor, Professor (Dr.) Jyoti Prakash Tamang, graced the event by his presence and felicitated all the speaker and guests. He commended the initiative, highlighting the significance of such academic gatherings in promoting research excellence and interdisciplinary collaboration.



The inaugural address was given by Dr. Akhilesh K. Gupta, Head of the Department. This was followed by the keynote lecture of Prof. Swadhin K. Mandal, IISER-Kolkata on the

topic, “Empowering p electrons in catalysis.” The lecture engaged the audience with interesting perspective of utilizing p-electrons of various low-valent organo-main group systems towards catalytic CO₂ reduction and functionalization, enabling the conservation of over-used transition-metal based catalysts in near future.



It was an immense moment of pride to welcome Prof. Bhim Prasad Pradhan, a retired Professor, University of North Bengal as the chairperson of the technical session I. During this session, Prof. Bhaskar Biswas (University of North Bengal), and Dr. Biswajit Gopal Roy (Sikkim University) delivered their lectures on the topics: “A journey from bioinspired molecular

electrocatalysts to framework electrocatalysts in searching of the Holy Grail in sustainable energy” and “Visible-Light-Driven Organophotocatalysis for Sustainable Organic Transformations,” respectively. This session emphasized the importance of adopting

sustainable research practices and developing innovative approaches to address environmental challenges. Experts discussed strategies for integrating sustainability into academic and industrial frameworks, inspiring participants to contribute to a greener future.



The afternoon technical session was chaired by Prof. Sanjay Dahal, Sikkim University, where the invited speakers Dr. Achintesh N Biswas (NIT-Sikkim) and Dr. Ajay Tripathi (Sikkim University) delivered engaging lectures on the topic, “Decoding the Dichotomy in a High-Valent Manganese Complex Featuring an Anionic N5 Ligand” and “Synthesis of nanoparticles using ultrafast laser: Fluence, solvent and pulse width effect,” respectively. The following discussions covered various aspects of electrochemistry, oxygen



activation, laser ablation techniques and nanoparticle’s synthesis, offering participants valuable perspectives on recent advancements, challenges, and future directions in the respective fields. A highlight of the seminar was the interactive Q&A sessions, where attendees had the opportunity to engage directly with experts, promoting a dynamic exchange of ideas.



In the valedictory session, by Dr. Anand Pariyar extended gratitude to the Vice-Chancellor, all speakers, attendees, and organizers for their contributions in making this event a valuable experience for all. Prof Sanjay Dahal in his concluding remark emphasized the importance of continued research and collaboration in the field of chemistry. Participants left with enhanced knowledge and new connections, making the seminar a resounding success.

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