CSIR OWOT-EED Program

TRL Assessment and Patent Landscaping of Energy Technologies: Pathways for Commercialization

Organized by

CSIR-National Institute of Science Communication and Policy Research (NIScPR), New Delhi

In Collaboration with

CSIR-National Chemical laboratory (NCL), Pune

CSIR-NCL Pune **25 June, 2024**

The Council of Scientific and Industrial Research (CSIR) is organizing 'One Week One Theme (OWOT)' program, an initiative aimed at showcasing the wide-ranging thematic research and innovations across its numerous laboratories. This program serves as a platform to highlight CSIR's diverse contributions to scientific and industrial advancements in India and to engage with various societal sectors. The event series is structured around specific themes, with each week dedicated to a different area of focus. In this context, a theme Energy and Energy Devices (EED) will be organized from June 24 to June 28, 2024. This particular theme will explore advancements in energy technologies and devices, emphasizing their importance in addressing contemporary energy challenges and fostering sustainable development.

As part of the EED theme, CSIR's National Institute of Science Communication and Policy Research (CSIR-NIScPR) is collaborating with the CSIR-National Chemical Laboratory (CSIR-NCL) to organize an event titled "TRL Assessment and Patent Landscaping of Energy Technologies: Pathways for Commercialization" on 25 June 2024 at CSIR-NCL Pune. Technology Readiness Level (TRL) assessment and patent landscaping provide guided directions for commercialization of technologies. TRL assessment provides a systematic metric to gauge the maturity of technologies. Patent landscaping helps to identify the landscape of intellectual property, enabling strategic planning and competitive analysis. This event aims to explore these approaches for in-depth energy technologies for technology translation.

The event will bring together a diverse group of participants, including experts from research and development (R&D) sectors, academia, industry, start-ups, and students etc. The event will also provide an enabling platform to the participants for fruitful interaction, exchange of ideas, and explore collaborations that could drive the commercialization of innovative energy technologies. More than 150 participants are expected to attend the event.

Program

Inaugural Session

Venue: Main Auditorium, CSIR-NCL

Date	Time	Duration	Title	Speaker Name and Affiliations
25 June 2024	9:30 AM-10:15 AM	45 Minutes	Registration of the Participants	
	10:15 AM-10:25 AM	10 Minutes	Welcome Address	**Prof. Venu Gopal Achanta** Director, CSIR- NPL & Director, CSIR-NIScPR (Additional Charge), New Delhi
	10:25 AM-10:35 AM	10 Minutes	Overview of the Event	**Prof. Sujit Bhattacharya** Chief Scientist, CSIR-NIScPR, New Delhi
	10:35 AM-10:50 AM	15 Minutes	Guest of Honor Address	**Dr. Ashish Lele** Director, CSIR-NCL, Pune
	10:50 AM-11:15 AM	25 Minutes	Chief Guest Address	**Dr. Prof. G.D. Yadav** Former Vice Chancellor, ICT Mumbai
	11:15 AM-11:20 AM	5 Minutes	Vote of Thanks	**Dr. Shiv Narayan Nishad** Senior Scientist, CSIR-NIScPR, New Delhi
	11:20 AM		**National Anthem**	
			High Tea	
	Technical Session 1: ***Technology Readiness Level Assessment*** ***Chair: Prof. Satishchandra Ogale*** Director, Research Institute for Sustainable Energy, TCG-CREST, Kolkata **Address by the Session Chair** **11:40 AM- 12:00 PM** **Venue: Main Auditorium, CSIR-NCL**			
	12:00 PM-12:15 PM	15 Minutes	Expert Talk	**Dr. Anjan Ray** Former Director, CSIR-IIP Dehradun
	12:15 PM-12:30 PM	15 Minutes	Expert Talk	**Dr. Vipan Kumar** Senior Principal Scientist, CSIR-NIScPR, New Delhi
	12:30 PM-12:45 PM	15 Minutes	Expert Talk	**Sh. Siddharth R. Mayur** Founder President & CEO H2E Power Systems Ltd., Pune
	12:45 PM-1:00 PM	15 Minutes	Interaction with Participants	
	1:00 PM-1:40 PM		**Lunch**	
	Technical Session 2: ***Technology Mapping of Energy Technologies*** ***Chair: Prof. Siddharth Jabade,*** Vice Chancellor, Vishwakarma University **Address by the Session Chair** **1:40 PM-2:00 PM** **Venue: Main Auditorium, CSIR-NCL**			
	2:00 PM-2:15 PM	15 Minutes	Expert Talk	**Prof. Sujit Bhattacharya** Chief Scientist, CSIR-NIScPR, New Delhi
	2:15PM-2:30 PM	15 Minutes	Expert Talk	**Dr. V. Premnath,** Chief Scientist, CSIR-NCL, Pune & Advisor, Venture Center India - Pune

25 June 2024	2:30 PM-2:45 PM	15 Minutes	Expert Talk	**Prof. R.R. Hirwani** Former Head, CSIR-URDIP, & Visiting Professor, IIT Dharwad
	2:45 PM-2:50 PM	5 Minutes	Discussant	**Dr. Nitin S Tewari** Senior Principal Scientist CSIR-NCL, Pune
	2.50 PM- 3.00 PM	10 Minutes	Interaction with Participants	
	3.00 PM		**Tea Break**	
	Panel Discussion on 'Energy and Energy Devices: Pathways for Commercialization' ***Chair: Dr. Reji Mathai*** Director, Automotive Research Association of India (ARAI) **Opening Remarks Session Chair** **3:05 PM- 3:15 PM** **Venue: Main Auditorium, CSIR-NCL**			
	3:15 PM-4:30 PM	75 Minutes	Energy and Energy Devices: Pathways for Commercialization	**Dr. Chinnakonda S. Gopinath** Outstanding Scientist (Scientist H), Catalysis and Inorganic chemistry division, CSIR-NCL, Pune **Dr. Parthaa Bosu** Consultant, UNESCAP **Dr. A Sivashanmugam** Chief Scientist & Head, Electo-chemical Power Sources Division, CSIR-CECRI **Dr. Prashant Dhakephalkar** Director, Agarkar Research Institute, Pune **Dr. Anand Apte** Managing Director to Amol Carbons Pvt Ltd, Pune **Dr. Sanjeev Majumdar** Senior Manager, NRDC, New Delhi **Discussant** **Dr. Avinash Kshitij** Principal Scientist CSIR-NIScPR, New Delhi
	Concluding Remarks **Dr. Vipan Kumar** Senior Principal Scientist, CSIR-NIScPR, New Delhi			
	Rapporteur Coordinator: **Mr Guruprasad Bagga,** Senior Technical Assistant, CSIR-NIScPR, New Delhi ***Rapporteurs*****: Mr Adarsh Raghuvanshi, Ms Himani, Mr Abhinav, Mr Pranjal Jain** AcSIR PhD Scholoars, CSIR-NIScPR, New Delhi.			

About Organizers

CSIR–National Institute of Science Communication and Policy Research (NIScPR)

CSIR–National Institute of Science Communication and Policy Research (NIScPR), New Delhi, a newly formed institution of CSIR after the merger of CSIR-NISCAIR and CSIR-NISTADS, has a glorious legacy of 70 years in science communication, building scientific temper among diverse stakeholders, and promotion of science, technology & innovation policy studies as well as act as a bridge at the interface of science, technology, industry and society and contributing towards the development of a robust S&T ecosystem in the country. The Institute presently brings out 16 research journals for the scientific community and 3 popular science magazines targeted at the masses. Currently, it is working in collaboration with NRDC on Technology Readiness Assessment and established a Technology Readiness Assessment Facility, known as the National Establishment for Technology Readiness Assessment (NETRA), at NRDC, New Delhi. NETRA will make a very important contribution towards the assessment of the Technology Readiness Level of technologies developed by various institutions and startups. It will be the first of its kind entity in the country, facilitating the successful transfer of technology to the industry for commercial exploitation and socio-economic benefits.

CSIR-National Chemical Laboratory, Pune

National Chemical Laboratory (CSIR-NCL), Pune, established in 1950, is a constituent laboratory of Council of Scientific and Industrial Research (CSIR). CSIR-NCL is a science and knowledge based research, development and consulting organization. It is internationally known for its excellence in scientific research in chemistry and chemical engineering as well as for its outstanding track record of industrial research involving partnerships with industry from concept to commercialization. The R&D activities are carried out with a vision that strives for global recognition in chemical sciences and engineering, assists Indian industries in becoming globally competitive, and creates national wealth to improve quality of life.

For Further Details, please contact:

Dr. Shiv Narayan Nishad, Senior Scientist, Event Coordinator, CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR), Dr. K.S. Krishnan Marg, New Delhi-110012
Email: s.nishad@niscpr.res.in; Mobile: 9535160553

Dr. Nitin S. Tewari, Senior Principal Scientist, Event Coordination from CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pune- 411008
Email: ns.tewari@ncl.res.in; Mobile: 9711154466