Program Schedule

Schedule for National Workshop on Advanced Carbon Materials for Next Generation Energy Solutions (NWCM2025)		
Day-1: February 20, 2025 (Thursday)		
Time [in hrs]	**Event**	**Location**
8:00-9:30	**Registration**	**Reception**
9:30-10:00	**Inauguration**	
9:30-9:35	Lighting of Lamp	IIP Audi
9:35-9:40	Welcome Address by President The Indian Carbon Society: Dr. O.P. Bahl	IIP Audi
9:40-9:45	Address by Chairman NWCM2025: Dr. H.S. Bisht, Director, CSIR-IIP, Dehradun	IIP Audi
9:45-9:50	Address by Technical Committee Chairman NWCM2025: Dr. R.B. Mathur, Secretary, The Indian Carbon Society	IIP Audi
9:50-9:55	Address by Dr. Hemant Madhukar Kulkarni, Chief Scientist, IIP Dehradun	IIP Audi
9:55-10:00	Vote of Thanks by Convenor: Dr Bhanu Pratap Singh, Chief Scientist, CSIR-NPL, New Delhi	IIP Audi
Session I: Session Chair: Dr. O.P. Bahl, President The Indian Carbon Society		
10:00-10:40	Plenary Lecture- Dr. H.S. Bisht, Director, IIP Dehradun, Towards Sustainable Energy, Environment and Carbon Materials	IIP Audi
10:40-11:10	**High Tea**	
Session-II: Session Chair: Dr Pratik Swarup Dash, R&D, Tata Steel, Jamshedpur		
11:10-11:40	**IL1-** Prof. Swati Sharma, IIT Mandi, Laser-patterned carbon for flexible energy generation and storage devices	IIP Audi
11:40-12:10	**IL2-** Dr A. S. Prakash, CSIR-CECRI Chennai Unit, CSIR Madras Complex, Advancements in Sodium-Ion Battery Technology: Novel Cathode Materials to Full-Cell Systems	IIP Audi
12:10-12:30	**OP1-** Ms. Kirti Chhabra, CSIR-IIP Dehradun, Nitrogen-Rich Activated Carbon Prepared from SiO_2-Templated Polyaniline as a High-Performance Anode Material for Sodium-Ion Batteries	IIP Audi
12:30-12:50	**OP2-** Dr. Ravikiran Nowduru, ARCI Hyderabad, Novel Green Process of Making Multi/Few Layers Graphene and their Applications	IIP Audi
12:50-13:10	**OP3-** Dr. Lekha Peedikakkandy, 6C NanoCarb Private Limited, Mumbai, Advancements in Industrial-Scale Production of Carbon Nanotubes	IIP Audi
13:10-14:00	**Lunch**	
Session-III: Session Chair: Dr. Manoj Srivastava, CSIR-IIP Dehradun		
14:00-14:30	**IL3-** Dr. Rajath Alexander, BARC Mumbai, Specialize Carbon Materials for Promising Nuclear and Beyond Energy Technologies	IIP Audi
14:30-15:00	**IL4-** Dr. Priyanka Heda Maheshwari, CSIR-NPL, New Delhi, Carbon - Nature's solution to Energy Materials	IIP Audi
15:00-15:20	**OP4-** Ms. Aarti, CSIR-NPL, New Delhi, Fabrication of a Hybrid Flexible Thermoelectric Device using Carbon-Nanotubes and Bismuth Telluride	IIP Audi
15:20-15:40	**OP5-** Ms. Deva Priya, CSIR-NAL, Banglore, Hybrid process derived C_f/C - SiC composites for thermal energy storage based on metallic phase change materials	IIP Audi
15:40-16:10	**TEA**	
Session-IV: Session Chair: Prof. Swati Sharma, IIT Mandi		
16:10-16:40	**IL5-** Dr. Kiran M Subhedar, CSIR-NPL, New Delhi, CNTs sheet and yarn based solid state linear supercapacitor for flexible and wearable devices	IIP Audi
16:40-17:10	**IL6-** Dr. Santoshkumar D Bhat, CSIR-CECRI Chennai Unit, CSIR Madras Complex, Functionalized Carbon nanostructures incorporation in short-side chain to form composite membranes for improved ionic transport and restricted fuel crossover in polymer electrolyte fuel cells	IIP Audi
17:10-17:30	**OP6-** Ms Shikha Thapa, CSIR-CECRI Chennai Unit, CSIR Madras Complex, Graphite based Flow Plates with different Cross-Sections Cathode Channels Designs for Open Cathode Fuel Cell Stack	IIP Audi
17:30-17:50	**OP7**- Mr. Sadhak Khanna, CSIR-NPL, New Delhi, Development of Asymmetric Supercapacitor with Polythiophene/MWCNT Nanocomposite for Energy Storage	IIP Audi
17:50-18:10	**OP8-** Dr. Sanjay R. Dhage, ARCI Hyderabad, Fabrication of a Inkjet Printing of Graphene and Carbon Nanotubes for Advanced Applications	IIP Audi
18:10-18:40	**ICS Council Meeting**	Conf. Room
19:00	**Dinner**	**Cafeteria**

Program Schedule

Schedule for National Workshop on Advanced Carbon Materials for Next Generation Energy Solutions (NWCM2025)		
Day-2: February 21, 2025 (Friday)		
Time [in hrs]	**Event**	**Location**
Session-V: Session Chair: Dr. A.S. Prakash, CSIR-CECRI Chennai Unit, CSIR Madras Complex		
9:30-10:00	**IL7-** Dr. A.K. Sahu, CSIR-CECRI Chennai Unit, CSIR Madras Complex, Porous carbon and graphite nanofibers as potential oxygen reduction catalyst for polymer electrolyte fuel cells	IIP Audi
10:00-10:30	**IL8-** Dr O.P. Khatri, CSIR-IIP Dehradun,Carbon Materials-Based Lubricant Systems to Minimize Energy Losses Associated with Friction and Wear	IIP Audi
10:30-11:00	**IL9-** Dr. Bhanu Pratap Singh, CSIR-NPL, New Delhi, Carbon nanotube macroassemblies: synthesis and their engineering applications	IIP Audi
Session-VI: Poster Session: Chair: Dr. R.B. Mathur, Secretary, The Indian Carbon Society		
11:00-13:00	**Poster Session + Tea**	**In front of Cafeteria**
13:00-14:00	**Lunch**	
Session-VII: Session Chair: Dr. P.K. Jain, ARCI Hyderabad		
14:00-14:30	**IL10-** Dr. Ajay Singh, BARC Mumbai, Free-standing flexible carbon nanotubes films for thermoelectric power generation	IIP Audi
14:30-15:00	**IL11-**Dr Pratik Swarup Dash, R&D, Tata Steel, Jamshedpur, Carbon Materials from Coal Tar: Opportunities and Challenges	IIP Audi
15:00-15:20	**OP9-** Dr. Uttam Saha, DMSRDE, Kanpur, Harnessing Manganese Dioxide (MnO_2)/Activated Carbon Fabric (ACF) Composites for Enhanced Supercapacitor Performance in Future Energy Solutions	IIP Audi
15:20-15:40	**OP10-** Mr. Rohan Rohilla, BARC, Mumbai, Engineered Hybrid nanostructures: Fabrication of Metal Oxide-Modified CNT Films for Next-Generation Sensors and Energy Harvesting	IIP Audi
15:40-16:00	**OP11-** Dr. Ruchi K. Sharma, CSIR-NPL, New Delhi, Highly Stable and Efficient Hybrid PEDOT: PSS/Si Solar Cells via applying the Graphene Oxide Top Capping Layer	IIP Audi
16:00-16:20	**OP12-**Ms. Vanshika Gairola, Shri Guru Ram Rai University, Dehradun, Rapid microwave-assisted activation of synthesized carbon nanoparticle for symmetrical supercapacitor electrode	IIP Audi
16:20-16:40	**OP13-** Mr. Nitesh Choudhary, IIT Roorkee, Fabrication of Symmetric Supercapacitor Device using MnO_2/Cellulose nanocrystals/Graphite electrode by Sputtering for Energy Storage	IIP Audi
16:40-17:00	**OP14**-Dr. Santosh Kumar Tripathy, DRDO, Kanpur, Photodegradation of Organic Contaminants from Carbon Nanostructure	IIP Audi
17:00-17:30	**Panel Discussion**	IIP Audi
17:30-18:00	Valedictory and Awards Distribution	IIP Audi
18:00-18:30	**TEA**	