



NATIONAL WORKSHOP

On

Advanced Carbon Materials for Next Generation Energy Solutions

At

CSIR- INDIAN INSTITUTE OF PETROLEUM, DEHRADUN

On

20-21 February, 2025

Organized by

THE INDIAN CARBON SOCIETY

In Collaboration with

CSIR- INDIAN INSTITUTE OF PETROLEUM, DEHRADUN
&
CSIR-NATIONAL PHYSICAL LABORATORY, NEW DELHI

<https://indiancarbonsociety.org>
<https://nwcm2025.com>

Background

In the quest for sustainable and alternative environment friendly energy solutions, the role of advanced materials, particularly carbon materials, is becoming increasingly critical. With their exceptional properties, including high electrical and thermal conductivity and their availability in various structural forms, carbon materials are playing pivotal role in advancing technologies for energy storage and conversion devices, primarily as electrode materials in Fuel cells, Batteries and Supercapacitors.

In order to keep pace with the advances in the carbon based technologies which are also relevant to the country's future strategic missions, The Indian carbon society has been holding Conferences, Seminars and Workshops regularly on the specific topics. Looking at the present global research focusing on the transition to green energy solutions and the important role being played by Carbon as one of the key components, it is proposed to hold two-day National Workshop on "Advanced Carbon Materials for Next Generation Energy Solutions" at CSIR-the Indian Institute of Petroleum (CSIR-IIP), Dehradun, India, on 20-21st February 2025.

Workshop Overview

Objective:

The workshop aims to bring together leading experts, researchers, young scholars and industry professionals to explore and discuss the latest advancements in carbon materials and their applications in the energy sector. It provides a platform for sharing innovative research, fostering collaborations, and addressing challenges in the deployment of these materials for sustainable energy solutions.

Key Themes:

- **Advancements in Carbon Materials:** Insights into recent research and developments in carbon materials such as graphene, carbon nanotubes, carbon composites, carbon fibers, cokes etc.
- **Energy Applications:** Exploring the use of carbon materials in enhancing energy storage systems, improving energy conversion technologies and advancing energy efficiency. These include fuel cells, batteries, supercapacitors, thermoelectrics, photovoltaics, etc.

- **Collaboration and Innovation:** Facilitating discussions and partnerships between academia, industry and research institutes/laboratories to drive forward the development and applications of carbon materials.

Target Audience:

- **Researchers and Academics:** Specializing in materials science preferably, carbon materials, nanotechnology, electrochemistry and device Integration technology.
- **Industry Professionals:** Engineers, technologists and innovators involved in energy systems and technologies related to carbon materials.
- **Students and Young Professionals:** Emerging talents with an interest in carbon materials for energy technologies.

Program Highlights:

- **Expert Presentations:** Invited talks and presentations by renowned experts on the latest trends and innovations in carbon materials for energy applications.
- **Poster and Paper Presentation:** Oral and posters presentations during the workshop.
- There will be invited talks of 30 minutes including 5 minutes for discussion and oral presentations of 20 minutes including 5 minutes for discussion.
- **Interactive Sessions:** Engaging discussions, panel debates and Q&A sessions to delve into specific topics and emerging issues.
- **Best Paper and Poster Awards:** To encourage young researchers, best poster and paper presentation awards will be given during the workshop.
- **Networking Opportunities:** Opportunities to connect with peers, industry leaders, and potential collaborators.

Registration

Registration Fee Before 01/01/25 On/After 01/01/25

Non-ICS Member	₹ 5,000/-	₹ 5,500/-
ICS Member	₹ 3,000/-	₹ 3,500/-
Students (Non ICS Member)	₹ 2,000/-	₹ 2,500/-
Students (ICS Member)	₹ 1,000/-	₹ 1,500/-

Dead Lines:

Submission of Abstract : 20th December 2024 (Extended)
Acceptance intimation : 30th December 2024 (Extended)

Accommodation:

Accommodation will be provided in the CSIR-IIP guest house and nearby budget hotels on a paid basis.

Event Details:

- **Dates:** 20-21 February 2025
- **Venue:** CSIR-Indian Institute of Petroleum (CSIR-IIP), Haridwar Road P.O. IIP Mohkampur Dehradun, Uttarakhand India
- **Registration:** www.nwcm2025.com
- **Contact Information:**
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NATIONAL WORKSHOP ON

Carbon Materials for Next Generation Energy Solutions 20-21 February, 2025

I/We intend to participate in the workshop

The delegate fee of ₹for.....

Participants in favour of **The Indian Carbon Society** in the form of Cheque/DD/NEFT/Scanning following QR code (A/c No 91002010002871, IFSC-CNRB0019100, Canara Bank) payable at New-Delhi is enclosed.



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