



**WORKSHOP  
ON  
BIOMIMETIC AND ELECTROACTIVE  
MEMBRANES  
(BMEM 2023)**



*Convenors*

**Prof. Manish Kumar**      **Prof. Swatantra P. Singh,**  
**The University of Texas,**      **Indian Institute of Technology**  
**Austin, USA**      **Bombay, India**

*Organized by*

**Environmental Science and Engineering Department  
(ESED )  
IIT Bombay**

**VENUE**

**Victor Menezes Convention Centre (VMCC)  
Indian Institute of Technology Bombay,  
Powai, Mumbai, Maharashtra-400076, India**

**ABOUT THE WORKSHOP**

Environmental Science and Engineering Department (ESED, formerly CESE), IIT Bombay is organising workshop on ‘Biomimetic and Electroactive Membranes (BMEM 2023)’ on Dec 7 and Dec 8, 2023. This unique event is designed to delve into the cutting-edge realms of science where nature-inspired innovation meets advanced membrane technology. Over the course of this workshop, participants will explore the fascinating intersections of various disciplines including biology, materials science, membranes etc. for uncovering the principles behind biomimetic design and electroactive functionalities in membranes. Through engaging discussions, interactive sessions and insightful presentations by leading experts from industries and academia, attendees will gain a deepened understanding to inspire revolutionary advancements in desalination, wastewater and water treatment. The major thematic areas (but not limited to) of the workshop are listed below:

**AREAS OF THE WORKSHOP**

- ❖ Novel methods for the development of biomimetic and electroactive membranes
- ❖ Biomimetic and electroactive membranes in desalination, water and wastewater treatment
- ❖ Biomimetic and electroactive membranes for emerging contaminants removal
- ❖ Application of biomimetic and electroactive membranes for fouling monitoring and mitigation

**WORKSHOP WEBSITE**

**<https://sites.google.com/view/bmem2023/home>**

**CALL FOR POSTERS**

The participants are requested to submit an abstract (template in Word) to [bmemiitb@gmail.com](mailto:bmemiitb@gmail.com) by October 15, 2023. Participants are requested to write “**Abstract for BMEM <<Name>>**” in the subject line while sending the abstract by email. Acceptance notification will be communicated to authors with a request to submit the soft copy of the final abstract in camera-ready form by November 5, 2023. Preference will be given to submissions that deal with recent advancements, applications and developments in the aforesaid thematic areas. All submissions for poster presentation must be original and should not have been presented elsewhere. All submissions will be subjected to review and decisions will be conveyed to the authors accordingly.

**IMPORTANT DATES**

Abstract submission deadline	Nov 15, 2023
Abstract acceptance notification	Nov 20, 2023
Registration deadline	Nov 30, 2023
Workshop dates	Dec 7-8, 2023

**REGISTRATION FEES**

The following workshop registration fees is payable for different categories of delegates:

Indian Student/Faculty	INR 5000/INR 7,500
International Student/Faculty	USD 200/USD 400
Indian Delegates (Industry)	INR 15,000
International Delegates (Industry)	USD 1000

## TECHNICAL EXHIBITION

To highlight the advancements made in the various areas of environmental science and engineering, BMEM 2023 plans to organize a technical exhibition along with the workshop. Equipment manufacturers and suppliers, analytical instrumentation providers, environmental service/consultancy providers, and related agencies are invited to participate in the technical exhibition to highlight their products and services. Exhibition space will be provided to each exhibitor. Those interested may please email to [bmemiitb@gmail.com](mailto:bmemiitb@gmail.com)

## BEST POSTER AWARD

Best poster award will be given for students that submit an expression of interest during abstract submission to be eligible for the award. The award preference will be given to the students from the institutes who do not have the financial mechanism to attend such conferences.

## ACCOMMODATION

Accommodation will be available in the guest house for expert speakers. Limited hostel accommodation only for students may be available on a first-come-first-served basis. However, all the delegates will be required to pay for their own accommodation.

## ACCOUNT DETAILS FOR PAYMENT

Account Name/ No.: NEC 2019 (2724201010355)  
IFSC Code: CNRB0002724  
MICR No.: 400015129; Bank Name: Canara Bank  
Branch Name: IIT Powai, Mumbai

## PATRONS

Director, IIT Bombay  
Dean R&D, IIT Bombay  
Head, Environmental Science and Engineering  
Department, IIT Bombay

## SCIENTIFIC COMMITTEE

Prof. Subhankar Karmakar, ESED, IIT Bombay  
Prof. Swatantra P. Singh, ESED, IIT Bombay  
Prof. Jayesh Bellare, ChE, IIT Bombay  
Prof. Munish Chandel, ESED, IIT Bombay  
Prof. Amritanshu Shrivastav, ESED, IIT Bombay  
Prof. Achintya Dutta, Chem, IIT Bombay  
Prof. Tabish Nawaz, ESED, IIT Bombay  
Prof. Bijay P. Tripathi, MSE, IIT Delhi  
Prof. Manoj K. Tiwari, CE, IIT Kanpur  
Prof. Seetha N., CE, IIT Hyderabad  
Prof. Shihabudheen M. Maliyekkal, CEE, IIT Tirupati  
Prof. Reetesh Kumar Gangwar, Phy., IIT Tirupati  
Prof. Balaji Subramanian, ME, IIT Tirupati

## ORGANIZING COMMITTEE

Prof. Swatantra P. Singh, ESED, IIT Bombay  
Prof. Manish Kumar, UT, Austin



Established in 1958, **Indian Institute of Technology (IIT) Bombay** is recognized worldwide as a leader in the field of engineering education and research. The institute attracts the best students from the country for its bachelor's, master's and doctoral programmes. It offers higher education in various branches of Applied Sciences and Engineering.

**Environmental Science and Engineering Department (ESED)** at IIT Bombay is a premier department for education and research in Environmental Science and Engineering in India which is engaged in doing cutting-edge interdisciplinary research in core areas of air and water pollution, waste management, climate change and others.

## MAILING ADDRESS

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