

## ORGANIZING TEAM

### Organizing Secretary

**Dr. Prodyut Dhar**

School of Biochemical Engineering  
IIT (BHU) Varanasi

**Dr. Aditya Kumar Padhi**

School of Biochemical Engineering  
IIT (BHU) Varanasi

### Organizing Committee

Prof. Vikash Kumar Dubey, Dean (R&D), IIT (BHU)

Dr. Rajeev Kumar Singh, Coordinator, I-DAPT Hub  
Foundation IIT (BHU),

Dr. Abhishek Suresh Dhoble; Dr. Pranjal Chandra, Dr. Sanjay Kumar, Dr. Sumit Kumar Singh, Dr. Rajendra Prasad Meena

## ABOUT NM-ICPS and IDAPT

The National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) is identified as one such emerging field to have a significant impact on health care, urban transportation, water distribution, energy, urban air quality, manufacturing, and governance. The activities envisioned under this Mission will give impetus to Indian manufacturing via the invention of new products and services and the creation of skilled young human resources, from technicians to researchers and entrepreneurs. It will have modernization and digitalization of socio-technical systems and services. The Interdisciplinary Data Analytics and Predictive Technologies (IDAPT) has been regarded as one of the most prominent fields whose progress will add significant impact on various socio-economic issues. At IIT (BHU) five verticals 1)Telecommunications, 2) Power, 3)Road Transport and Highways, 4) Defence Research and Development, and 5) Health and Family Welfare, have been identified under IDAPT. The endeavour shall catalyse the creation of skilled young engineers, researchers, technicians, and entrepreneurs, together with the human resource at all levels, besides becoming a key contributor to realizing the vision of "Digital India", "Innovate in India", and "Make in India".

## CONFIRMED SPEAKERS



**Prof. Debasis Dash**, Director, ILS Bhubaneswar (*Big data and Artificial intelligence, Proteomics & Proteogenomics, Genomics*)



**Prof. Sabu Thomas**, Vice Chancellor, Mahatma Gandhi University, Kerala (*Dynamics of phase separation in polymer blends, polymer nanocomposites, Reactive processing of polymers, fiber reinforced green polymer composites, membranes, Recycling of waste rubbers*)



**Prof. Sharmila Mande**, Distinguished Chief Scientist, TCS Research, Tata Consultancy Services, (*Bioinformatics, Computational biology, Systems biology*)



**Prof. Nishith Verma**, IIT Kanpur (*Synthesis and Applications of Carbon Nanofibers and Nanoparticles, Environmental Pollution Control Methods, Microbial Fuel Cells, Chemical Sensors, Carbon-based Electrodes, CFD and LBM-based Models*)



**Prof. Prabal K. Maiti**, IISc Bangalore (*Charge transport in molecular systems, Computational biophysics, Fluids and Polymers under confinement, Activity induced phase separation, Nucleic acid nanotechnology*)



**Prof. Rabibrata Mukherjee**, IIT Kharagpur (*Thin film instability, Soft nanotechnology, Soft Lithography and Nano Patterning*)



**Prof. Rekha S. Singhal**, ICT Mumbai (*Food quality, Food chemistry, Biopolymers, Lipid chemistry and technology, Food product development, Food processing, Fermentative production and downstream processing of biomolecules, Traditional foods*)



**Prof. Dinesh Gupta**, International Centre for Genetic Engineering and Biotechnology (ICGEB), Delhi (*Translational bioinformatics*)



**Dr. Rajiv K. Kar**, IIT Guwahati (*Point of care technology, Biomaterials and sensors, Nanotechnology, Data science and analytics*)



**Dr. Arindam Basu**, Northern India Textile Research Association (*Textile technology, Medical Textiles, Silk Science and Technology, Technical textiles, Materials Engineering and Nanotechnology*)

*More speakers are awaited and will be updated soon*

## Advanced Functional Materials and Informatics (AFMI-2023)

November 29-December 03, 2023

At



Indian Institute of Technology (BHU),  
Varanasi

Supported by

A TECHNOLOGY INNOVATION HUB (TIH)  
ON  
INTERDISCIPLINARY DATA ANALYTICS  
AND PREDICTIVE TECHNOLOGY  
(IDAPT)

Under  
NATIONAL MISSION ON  
INTERDISCIPLINARY CYBER-PHYSICAL  
SYSTEMS (NM-ICPS)

&

AMERICAN CHEMICAL SOCIETY



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Chemistry for Life®



## THEME

Advanced Functional Materials and Informatics (AFMI-2023) is a one-week short-term course that covers invited lectures from experts and hands-on emerging areas of material science, technology and informatics. AFMI-2023 delves into the fascinating world of advanced functional materials, their synthesis, characterization, and transformative applications. Explore how informatics techniques, including data analysis, machine learning, and molecular simulations, are revolutionizing material discovery and design. Engage with experts, delve into case studies, and participate in hands-on workshops to unravel the synergy between materials science and informatics. Join us in this immersive learning experience to pave the way for innovative breakthroughs and unleash the potential of materials of tomorrow. We cordially invite you to register for the event.

## INDIAN INSTITUTE OF TECHNOLOGY (BHU)

Indian Institute of Technology (BHU) Varanasi is an Institute of national importance created by an Act of the Parliament through the Institutes of Technology (Amendment) Act, 2012. Previously, it was known as IT, BHU. Founded in 1919 as the Banaras Engineering College, it became the Institute of Technology, Banaras Hindu University, in 1968. IIT (BHU) Varanasi has 14 departments and 3 interdisciplinary schools. IIT(BHU) Varanasi has been able to build up the necessary infrastructure for carrying out advanced research and has been equipped with state-of-the-art engineering and scientific instruments. The city of Varanasi is well connected by road, rail, and air with all the important places of India. Regular flights are there from Varanasi to Delhi, Mumbai, Chennai, Bangalore, Kolkata, Khajuraho, and Lucknow. The IIT (BHU) campus is only 10 Km from Varanasi railway station, 20 Km from Deen Dayal Updhyay (old name Mughalsarai) railway station, and 35 Km from the Varanasi airport.

## ELIGIBILITY

The conference is open mainly to faculty members, scientists, post-doctoral fellows, Ph.D., MTech and MSc, MPharma, B Pharma, MBBS, B.Tech. and other undergraduate students, etc.

## REGISTRATION FEE

- **For faculty members:** INR 4000 +18% GST (non-refundable)
- **For UG, PG, Ph.D., and post-doctoral fellows:** INR 1500 + 18% GST (non-refundable)\*
- **For Industry:** INR 5000 + 18% GST (non-refundable)

**Registration is closing soon! Pay (detail below) and hurry up to grab the last few available slots.**

*Acceptance email will be sent to participants on first cum-first serve basis.*

**Payment may be made by one of the following methods:**

(i) Demand draft in favor of I-DAPT-HUB-FOUNDATION 2 Payable at SBI, IIT(BHU) Varanasi.

(ii) For online payment

Branch: SBI, IIT (BHU) Varanasi  
Bank Name: State Bank of India  
IFSC Code: SBIN0011445  
Name: I-DAPT-HUB-FOUNDATION 2  
Account No: 40298890505  
Account type: Current

*Note: Mention payment details in the registration form*

## IMPORTANT DATES

Opening of Registration: 15 October 2023

Last Date of Registration: 15 November 2023\*

(\* Registration fee is reduced in the interest of the student participation)

## Advanced Functional Materials and Informatics (AFMI-2023)

November 29-December 03, 2023

## REGISTRATION FORM\*

<https://docs.google.com/forms/d/1Rch09C-6sH6g-f2J4J3tSmOa1kZrdCTpkfU--rTlAVw/edit>

*\*The decision about the final selection is made by the organizing secretaries and the organizing committee.*

## CONTACT

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Varanasi-221005

**Dr. Aditya Kumar Padhi**, Assistant Professor,  
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Varanasi-221005

## VENUE OF AFMI-2023, IIT (BHU)

Scan the code below to find more information about the venue of AFMI-2023 to be held at IIT (BHU) from 29<sup>th</sup> November-3<sup>rd</sup> December 2023.

