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Prof. Manoj Pandey (Head, Department of Chemistry, PDEU)

## CO-CONVENER

Dr. Vimlesh Chandra (School of Applied Material Sciences, CUG)

## TRACK CONVENERS

### ENERGY

Dr. Nitin Chaudhari  
Dr. Brijesh Tripathi  
Dr. Prahlad Baruah  
Dr. Rajat Saxena

### ENVIRONMENT

Prof. Anurag M.  
Dr. Swapnil D.  
Dr. Syed S.  
Dr. Ashish Unnartkat

### HEALTH

Dr. Sivaraman D.  
Dr. P.S. Pradeep  
Dr. Nandini M.  
Dr. Anu Manhas

## TREASURER

Dr. Tapan Pal Ms. Shaija Tripathi

Registration	Before (20th Nov. 2023)	After (20th Nov., 2023)
<b>INTERNATIONAL</b>		
Research Scholars	250 US\$	300 US\$
Industry Professionals	500 US\$	550 US\$
<b>NATIONAL</b>		
Research Scholars	Rs. 3000/-	Rs. 4000/-
Faculties	Rs. 5000/-	Rs. 6000/-
Industry Professionals	Rs. 7000/-	Rs. 8000/-

All delegates have to arrange their own accommodation. Organizers may help in securing accommodation on payment basis for delegates within the close proximity of the venue.

### IMPORTANT DATES

Deadline for Submission Abstract: (by email)	20th November, 2023
Notification or Acceptance of Abstracts	25th November, 2023
Last date for Registration	20th November, 2023
Request for an accommodation	30th November, 2023

### Prof. Manoj Pandey (CONVENER)

Head, Dept of Chemistry  
+91 9978235337 manoj.pandey@sot.pdpu.ac.in  
<http://sot.pdpu.ac.in/Chemistry-dept.html>

### PUBLICATION

Selected manuscripts will be published in scopus indexed journals

### MODE OF PAYMENT

Registration Fees can be paid online through the QR code and payment link:

<https://onlinepayment.pdpu.ac.in/conferences/>



## ADVISORY COMMITTEE

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Dr. Paul Salins, Shaw Cancer Hospital, Bangalore  
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Formerly Pandit Deendayal Petroleum University (PDEU)

# International Conference on Materials for Sustainable Energy Environment & Health

## ICMSEEH-23

8th-9th December 2023

[www.icmseeh23pdeu.in](http://www.icmseeh23pdeu.in)



### Jointly Organised By

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Department of Mechanical Engineering  
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## DEPARTMENT OF CHEMISTRY

The Department of Chemistry is committed to excellence in teaching-learning and research in Chemistry and allied fields. The department offers various programs, such as Four year B.Sc. (Hons.) in Chemistry with a blend of Science and Liberal Arts courses, Two-year M.Sc. in Chemistry with Industry oriented specialization with one-year exposure to high-end research, and a Ph.D. in Chemistry (Full time & Part-time). The department covers a wide spectrum of research, such as Synthetic Organic Chemistry, Asymmetric Synthesis, Materials Chemistry, Heterogeneous Catalysis, Nanomaterials & Photocatalysis, Fuel Cell Technology, Materials for Energy Storage and Conversion, Soft Matter, Medicinal and Environmental Chemistry, Geochemistry, Computer-Aided Drug Design, etc. The department has been awarded a DST-FIST grant of approximately 4.0 Crore for NMR and BET surface analyzer.

<https://sot.pdpu.ac.in/Chemistry-dept.html>

## DEPARTMENT OF CHEMICAL ENGINEERING

Chemical engineering is a multi-disciplinary branch of engineering that combines natural and experimental sciences (such as chemistry and physics), along with life sciences (such as biology, microbiology and biochemistry) with mathematics and economics to design, develop, produce, transform, transport, operate and manage the industrial processes that turn raw materials into valuable products. Hence, contrary to other fields of engineering, chemical engineering is a branch of engineering that is a varied field, covering areas from biotechnology and nanotechnology to mineral processing, pharmaceuticals, synthetic fibres, petroleum refining plants and many such more. It uniquely combines the knowledge of Chemistry and Engineering for the production of chemicals and related by-products.

<https://sot.pdpu.ac.in/chemical-dept.html>

## DEPARTMENT OF MECHANICAL ENGINEERING

The Mechanical Engineering Department at PDEU has established itself as one of the premier brands in technical education in India. It has been expanding very fast with increased diversity in the B. Tech, M. Tech, and Ph.D. Programs with thrust in the industry and research cultures. More than 1000 research papers and articles have been published in reputed journals and conferences.

<https://sot.pdpu.ac.in/mech-dept.html>

## ABOUT PDEU

Pandit Deendayal Energy University (PDEU) formerly known as Pandit Deendayal Petroleum University (PDP) is located in Gandhinagar, Gujarat, India. It is recognized by UGC and accredited by NAAC, A++Grade. Since its establishment in 2007, the University has enlarged its scope by offering diversified courses in a very short duration through SoET, SoT, SoM, and SLS. For the development of its faculties, the University endeavors various collaborative programs. In 2018, the Central Government of India granted autonomy to PDEU.

## ICMSEEH YOUNG SCIENTIST AWARD

3 Best Oral Presentation Awards

3 Best Poster Presentation Awards

ACS Membership Opportunity

## CALL FOR PAPERS

The field of material has expanded significantly in recent years, encouraging the discovery and development of novel materials with enhanced properties and functionalities that contribute to sustainable energy production, environmental protection, and improved human health. This conference aims to foster interdisciplinary discussions, share cutting-edge research findings, and explore innovative solutions to address the pressing challenges at the interface of these crucial domains. Thus, the prime aim of the present conference is to provide students, researchers, academicians, and industrialists a forum to be involved in scientific discussions related to the field of advanced materials and beyond, which will flourish their academic knowledge, research aptitude, and encourage them for collaborative research.

## THEMES

### ENERGY

- Renewable Energy and sustainable energy
- Energy Storage and conversion
- Fuel Cells, supercapacitor and batteries
- Hydrogen generation and storage
- High Energy Materials
- Biomass and Biofuels
- Nuclear Energy
- Thermal Energy
- CO2 Capture and conversion
- Photovoltaics
- 2D Materials
- Computational and DTF studies

### ENVIRONMENT

- Waste Management
- Resource and Environment
- Solid Waste Valorization
- Novel material for water treatment
- Low Carbon Economy and Society
- Greenhouse Gas
- Mitigation and Climate Change
- Global Warming
- Air Pollution
- Environmental Process Simulation
- Environmental Risk management
- Environmental Chemistry and Pollution Control

### HEALTH

- Digitized and digital support of health and care
- Microbial Therapeutics and Antimicrobial resistance
- Nanotechnology and Nanomedicine
- Health care devices
- Computational Biology and Bioinformatics
- COVID recovery & impact on health & care system
- Microbial Biotechnology
- Pharmaceutical Biotechnology
- Genetic Engineering
- Biosensors and bioelectronics

