



National Conference

on

**Scientific Interventions and Energy
Research for Sustainable Future
& Resilient Earth**

Oct 30-31, 2025

Organized by

**Department of Biosciences,
Himachal Pradesh University
Shimla**

In association with

**Centre for Green Energy &
Nanotechnology
and**

**HPU Biological Society
Himachal Pradesh University
Shimla**

**Sponsored by
PM-USHA**

Himachal Pradesh University

Established on July 22, 1970, Himachal Pradesh University (HPU) stands as the oldest multi-faculty university of the state, embodying a legacy of academic excellence and holistic development. Perched at Summer Hill, just 5 km from the heart of Shimla, the University is embraced by towering deodars, pines, oaks, and rhododendrons, creating an enchanting environment that inspires learning and innovation. Spread over 200 acres of pristine landscape, the campus is renowned for its distinctive architectural style that blends seamlessly with the majestic Himalayan backdrop. Recognized for its academic rigor and research contributions, HPU has been reaccredited with an "A" Grade by the National Assessment and Accreditation Council (NAAC), reaffirming its commitment to quality education.



About the Department

Department of Biosciences is oriented towards research and post-graduate training involving the study of biological resources and their development in the state. Department of Bio-Sciences is DST-FIST and UGC-SAP-DRS-II funded department. The department from time to time has been able to obtain research projects from various granting agencies such as University Grants Commission, Indian Council of Agricultural Research, Department of Science and Technology, Department of Environment, National Medicinal Plant Board etc., which has greatly helped in augmenting and strengthening the research activities in the department.



Centre for Green Energy & Nanotechnology

The centre has been established in H P University under the leadership of Prof Mahavir Singh, Hon'ble Vice Chancellor with a vision "To be a leading hub of innovation, education, and collaboration in green energy and nanotechnology, driving sustainable solutions that power the future and protect the planet".

About the Conference

In the face of accelerating climate change, environmental degradation, and growing energy demands, the quest for a sustainable and resilient future has become one of humanity's most pressing challenge. Scientific interventions rooted in interdisciplinary research, technological innovation, and evidence-based policy play a pivotal role in addressing these global crises. At the heart of this effort lies energy research, which is essential for transitioning from fossil fuels to clean, renewable, and efficient energy systems that minimize environmental impact while meeting the needs of growing populations. From breakthroughs in solar, wind, and hydrogen energy to advancements in energy storage, carbon capture, and smart grids, science and technology are shaping a new energy landscape. These innovations not only reduce greenhouse gas emissions but also enhance the resilience of ecosystems and communities against climate shocks. Moreover, integrating scientific knowledge with sustainable development goals ensures that progress benefits both people and the planet. This ongoing synergy between scientific research and energy innovation is key to building a resilient Earth—one that can adapt to environmental stresses, recovers from disasters, and ensures well-being for future generations. As such, fostering collaboration among governments, industries, researchers, and civil society is essential to accelerate scientific solutions for a more sustainable world.

The Conference shall cover following themes:

- **Advances in Physical, Biological and Chemical Sciences**
- **Animal Physiology, Neurobiology, Cell & Molecular Biology**
- **Pharmaceutical Sciences**
- **Ecology, Biodiversity Conservation & Pest Management**
- **Climate Change, Resilience & Disaster Risk Reduction**
- **Agriculture, Horticulture and Forestry**
- **Biotechnology, Microbiology and Nanoscience**
- **Data-Driven Innovation, AI & Emerging Technologies**
- **Circular Economy, Resource Efficiency & Waste-to-Energy**
- **Sustainable Energy Technologies**
- **Governance, Policy, Finance & Sustainable Development Goals (SDGs)**
- **IPR and ITK**

Abstract Submission

Abstract should be up to 500 words, written in Times New Roman, 12 font size, single spacing. Selected participants shall be given opportunity to present their research articles in oral mode. All others shall present their papers through poster mode. All abstracts shall be published in souvenir. Abstract must be communicated @ ncbpu2025@gmail.com

National Advisory Board

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Conference Committee

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Hon'ble Vice Chancellor
H P University, Shimla

Patron

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H P University, Shimla

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Dept of Biosciences
H P University, Shimla

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Dr Nitesh Kumar, Dept of Biosciences, HPU Shimla
Dr Vikul Kumar, Dept of Biosciences, HPU Shimla

Registration

Registration can be made either scanning QR code or clicking on below link

Last date of registration

27 Oct, 2025

Link for registration

https://docs.google.com/forms/d/e/1FAIpQLScOh7Z1A52Npp68_aQhIMWvCbA5uErlUA5a5x8mApRgQlYw/viewform?usp=pp_url



(scan QR to register)

Registration Fee

INR 500/- for UG/PG students

INR 1000/- for Research Scholars

INR 1500/- for Faculty, Scientists & others

INR 500/- for Online Participants

Participants are requested to get registered well in time, late registration/spot Registration shall be allowed only with Rs 500/- late fee.

Registration fee includes conference kit, working meals and tea. For PG students fee shall be charged only from those who will present their work in the conference, they will be eligible for all conference facilities except conference kit. Any other UG/PG student can participate in the event and attend the sessions free of cost.

Fee has to be paid online in the bank account as mentioned below:

Bank Name: State Bank of India, Summer Hill,
A/c Name: HPU Biological Society Treasurer
A/c No.: 5007478016
IFSC: SBIN0002490

Oral/Poster Presentation

For oral, maximum 10 slides describing methodology, results and outcomes. Poster to be prepared in Vertical manner, Length (3ft) x Breadth (2ft). One online session shall be organized for which only 50 participants shall be allowed to present their work.

Awards

02 Best Oral Awards (Faculty category)
02 Best Oral Awards (Research Students' category)
02 Best Poster Awards (Faculty category)
02 Best Poster Awards (Research Students' category)
02 Best Poster Awards (PG Students)
02 Young Scientist Award (Faculty Only)

For young scientist award, separate format shall be sent to desired participants.

The full length papers shall be invited after the conference for publication in reputed publisher **free of cost**

The quality of article shall be decided by the editorial Board constituted for the purpose. Final publication will depend upon the quality of article, merely submission of article does not mean that it will be accepted for publication.

Accommodation

The accommodation has to be made by participants themselves. The list of budgeted hotels and guest houses shall be provided to all the participants in time and assistance shall be provided by accommodation committee.

Explore Shimla - The Queen of Hills

- The Ridge, Christ Church & Mall Road
- Jakhoo Temple, Tara Devi Temple, Sankat Mochan Temple
- Indian Institute of Advanced Study (IIAS)
- Kufri, Naldera

All correspondence be made to

Dr. Rajesh Jaryal (Org Sec)

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