

International Conference on Physics for Sustainable Energy (ICPSE)

Organized by,

**Nepal Physical Society and International Union of Pure and Applied Physics
as IUPAP Centenary Satellite Event**

Co-organizer

Tri-Chandra Multiple Campus, Tribhuvan University

September 22-23, 2023, Kathmandu, Nepal

Mode: Physical



Introduction

The Nepal Physical Society (NPS) was founded in 1983 AD by professional physicists in Nepal to advance and disseminate physics knowledge throughout the nation. Its membership includes physicists from Nepal and overseas, as well as professors, lecturers, teachers, and students. The Society organizes annual meetings to support members' educational and scientific endeavors. The executive body of the Society is elected by a general convention every two years. Additionally, the Society has formed newsworthy chapters according to geographical regions to gather information regarding ongoing research activities and current physics education across the nation. Since its inception, the Society has routinely held conferences, symposiums, workshops, and lecture programs to advance physics research and educational initiatives throughout Nepal[www.nps.org.np].

Nepal at a glance

Nepal is known for its stunning natural beauty, highlighted by the majestic Himalayas that stretch across its northern and western regions. This country is home to eight of the world's fourteen highest mountains, including the renowned Mount Everest. Despite its small size compared to neighboring countries, Nepal boasts a remarkably diverse landscape and a unique culture. Although landlocked and lacking direct access to the sea, Nepal is abundant in water sources such as lakes, rivers, and massive glaciers.

About Conference

Energy is one of the most essential components of modern society. It is used to power various activities such as transportation, communication, manufacturing, and households. However, traditional energy sources such as coal, oil, and gas are finite and contribute significantly to climate change. Therefore, there is an urgent need to transition to sustainable energy sources to meet the growing energy demand while reducing greenhouse gas emissions. The application of physics principles has led to the development of renewable energy (Green Energy) technologies such as solar, wind, hydro, and geothermal energy and also contributes to energy efficiency by optimizing energy use in buildings, transportation, and industry.

Objectives of the Conference

The International Conference on Physics for Sustainable Energy (ICPSE) is a highly anticipated global event that will be focused on the presentation and discussion of technological advances and recent developments in the field of energy in physics. The conference aims to *foster collaboration and interdisciplinary research* by bringing together researchers, scientists, and professionals. It provides an excellent platform for students interested in pursuing a career in physics, as well as for research scholars, academic professionals, policymakers, industries and communities to strengthen their collaborations and interact with experts from around the world. By participating in this conference, attendees can develop a global network that will help them to advance their research and career goals.

Benefit to Nepal

The proposed gathering of research-active scientists from diverse backgrounds can bring significant benefits to Nepal. The interactions and collaborations among these physicists can lead to the development of new technologies, innovative solutions, and scientific advancements that can address the country's challenges in various fields. These benefits extend beyond energy and encompass areas such as agriculture, healthcare, and environmental sustainability. By

fostering such collaborations, the quality of life for Nepalese citizens can be improved, and the country's economic growth can be boosted. Moreover, this gathering presents opportunities for Nepalese physicists to network and collaborate with Nepal Government and international researchers, facilitating knowledge sharing and capacity building within the country's research community. Ultimately, the conference's outcomes will contribute to the formulation of policies and strategies for sustainable energy development in Nepal.

Topics to be Covered

- alternative methods of energy generations and storage,
- use of renewable energy sources, natural resources, green energy
- smart material that explores sustainable energy and its diverse applications.

Call for Papers

The conference will feature keynote presentations, panel discussions, poster sessions, and networking opportunities, offering a comprehensive and engaging program for all participants. The conference will provide an exclusive platform to all scientists who are involved in different organizations.

We hereby invite you to participate in and contribute to the ICPSE conference. The abstract template is enclosed and can be download from NPS web page Please visit www.nps.org.np for detail program.

Publication

Papers presented in the conference will be published in *Journal of Nepal Physical Society*.

Participation

Graduate/Postgraduate Academic/Administrative/ Education, etc major with physics. Nepal Government head, Faculty and Chairpersons of Physics Departments in institutions in the region may come for participation in the event.

International Advisory Committee(IAC)

- Dr. Michel Spiro, President - International Union of Pure and Applied Physics (IUPAP) and Chair of the Steering Committee for the International Year of Basic Sciences and Sustainable Development, France
- Prof. Dr. Nithaya Chetty, Vice president- Membership-IUPAP, South Africa
- Prof. Dr. Irvy (Igle) Gledhill, Secretary- IUPAP Working Group on Physics (WG21) and the Green Economy, South Africa
- Er. Jens Vigen, Secretary General- IUPAP, Switzerland
- Prof. Dr. Gillian I Butcher, Vice President- Gender Champion-IUPAP, UK
- Prof. Dr. Kuijuan Jin, Chair C13, Physics for Development- IUPAP, China
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- Prof. Dr. Sunil K Gupta, Tata Institute of Fundamental Research, India

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Department of Physics, Amrit Campus, TU,
- ★ Dr. Lekh Nath Mishra,
Department of Physics, Patan Multiple Campus, TU

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- Mr. Mukunda K.C./ Mr. Rajesh Shrestha
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Contact

Conference Secretariat: Dr. Hari Shankar Mallik
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< nepalphysicalsociety2022@gmail.com >
Webpage: <http://www.nps.org.np>

Venue

Hotel Himalaya, Yala Sadak 3584, Lalitpur 44600,
Kathmandu, Nepal
Phone: 01-5523900

Important Dates and Deadline

- Conference Dates: September 22-23, 2023
- Abstract Submission: July 03 - August 25, 2023
- Abstract Notification: September 01, 2023
- Registration Fee Payment: September 10, 2023
- Full Paper Submission: October 23, 2023

Registration Fees

Nepal in NPR and Others in USD
Regular: Rs 3000.00 and Others \$150.00
Students and Research Scholar: Rs 2000.00 and Others \$100.00
Bank Details for Payment of Fees
Account Holder: Nepal Physical Society(NPS)
Bank Address: Nepal Bank Limited, Kirtipur Branch, Kathmandu
Current Account Number: 04500100099033000001
Swift Code: NEBLNPKA