



**5<sup>th</sup> International Conference**  
on  
**“Physics for Sustainable  
Development and Technology”**  
**(ICPSDT-2023)**

**(September 7-8, 2023)**

**Theme:**

**Physics Research for Emerging Futures**

**Venue:**

**Sheikh Kamal IT Business Incubator**

Chittagong University of Engineering and Technology  
(CUET), Chattogram, Bangladesh



**Organized by:**

**Department of Physics**

Chittagong University of Engineering and Technology  
Chittagong-4349, Bangladesh.

**Welcome Message**

It is really our tremendous pleasure and heartfelt pride as well to welcome you all to the 5<sup>th</sup> International Conference on “Physics for Sustainable Development and Technology (ICPSDT-2023)” to be held on 7-8 September 2023 in Chattogram, which is the biggest operational port city and second largest city of Bangladesh. Following the success and huge responses in a national conference held in 2009, the 1<sup>st</sup> ICPSDT was organized in 2015. Consecutively the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> ICPSDT were successfully organized in 2017, 2019 and 2022 respectively. The ICPSDT brings scientists and students together from around the world to connect and collaborate across academia, industry and research centers. As per the sequential outcomes of our previous events, we have reasons to believe that all the students, young physicists and experienced professionals will be benefitted from networking, learning and sharing knowledge throughout this upcoming event.

CUET is a public university situated in Chattogram, Bangladesh, about 25 kilometers north-east to main city. This university has been promisingly contributing to the technological development of our country since the day of its establishment. The Department of Physics of CUET has started the journey as an independent Department in the year 1968. The Department is committed to disseminating knowledge through excellent research programs within its affordability. Presently, the research is being conducted in the fields of Condensed Matter Physics, Nuclear and Health Physics, Atmospheric Physics, Nano Physics and Applications. The department is continuously working on collaborative research projects with other universities and research institutions from both home and abroad.

Chattogram is basically famous for its nature decorated with green hills. Besides, ancient architecture, interesting historical and religious sites are also significantly contributing to its distinguished natural beauty. Here in Chattogram, we also have several attractive places and sites fascinating to the tourists, like Patenga sea beach, Foy’s lake, 2nd World war cemetery, Kaptai lake, D.C. hill, Bataly hill, Railway museum, etc.

We hope that the presentations of keynote and invited speakers who are the academicians, eminent researchers and scientists from UK, Australia, Japan, Malaysia, Turkey, India, Bangladesh etc. in the 5<sup>th</sup> ICPSDT-2023 will encourage our young faculties and researchers through fruitful discussion. Researchers from all corner of the world are highly encouraged to participate with their innovative research works in the Conference.

Dear participants and researchers, we expect to meet you all in the 5<sup>th</sup> ICPSDT-2023.

## Conference Objectives

The aim of the 5<sup>th</sup> ICPSDT-2023 is to present actual national and international problems in Physics, to bring together researchers and scientists from home and abroad, and to establish scientific contacts among them. The Department of Physics, CUET invites all interested to participate.

## Conference Scope

Condensed Matter Physics, Materials Science and Magnetic Materials, Advanced/Engineering Materials, Semiconductors, Superconductors and Insulators, Optoelectronics, Environmental Science & Polymers, Composite and Ceramic Materials, Nano Science and Technology, Thin Films, Crystal Growth and Amorphous Materials, Medical, Health and Bio-Physics, Plasma Physics and Meta Materials, Laser Physics and Non-Linear Optics, Atmospheric Physics and Meteorology, Nuclear, Radiation and Reactor Physics, Particle & High Energy Physics, Renewable Energy, Computational Physics, Theoretical Physics, Physics Education and Industry, VLSI Design and Fabrication, Electronic Devices and Quantum Computing, Wireless, Optical and Mobile Communication along with all related topics.

## Call for Abstract

The Conference Organizing Committee is pleased to invite researchers to submit the abstracts for oral and poster presentations to be delivered at the conference. High-quality original and published/unpublished conceptual, constructive, empirical, experimental, or theoretical works in all areas of Physics are cordially invited for presentation.

## Instructions for Preparing Abstracts

Please read the following instructions carefully before preparing your abstract.

✓ Abstract must be typed in **ENGLISH** using Microsoft Word (.docs) not exceeding **330 words** (excluding authors particulars and figure)

✓ Please follow the template for the preparation of the abstract.

✓ Authors are requested to send the abstract through the [Google form link](#).

✓ Technical committee of the conference reserves the right to accept or reject any abstract and to designate abstracts either for **oral or poster presentation**, moreover to choose a suitable session for the abstract.

## Book of Abstracts

All accepted abstracts will be published in the conference programmes and abstracts book which will be distributed to the registered participants at the Conference. Authors no need to submit the full papers for the presentation. All abstract will go through a review process arranged by the technical committee. Accepted abstract authors are highly encouraged to register to participate in the Conference.

## Conference Language:

The official language of the conference is English.

## Important dates

Deadline for abstract submission : **June 30 2023**

Abstract acceptance notification : **July 15, 2023**

Deadline for Registration : **August 15, 2023**

**Conference date** : **September 07-08, 2023**

## Registration fees

- ❑ Professional (Author/participant) :BDT 3000
- ❑ Student (Author/participant) :BDT 1500
- ❑ Foreign participant :US \$ 100

## Accommodation and travel

Local participants are requested to arrange their own accommodation (for more information <https://www.cuet.ac.bd/conf/icpsdt>). No travel expenses will be borne by the organizer. Local hospitality will be provided by the conference authority to the foreign participants.

## Keynote Speakers

- **Prof. Dr. David Bradley**  
Distinguished Professor, University of Sunway, Malaysia  
Emeritus Professor, University of Surrey, UK
- **Prof. Dr. Susanta Lahiri**  
Emeritus Scientist (CSIR)  
Department of Chemistry  
Diamond Harbour Women's University, Diamond Harbour  
Road, Sarisha, South 24 Parganas , 743368, India
- **Prof. Dr. Tanusri Saha Dasgupta**  
Director  
S. N. Bose National Centre for Basic Sciences. JD  
Block, Sector-III, Salt Lake City, Kolkata - 700 106, India
- **Prof. Dr. Abdullah Al Mamun**  
Department of Physics  
Jahangirnagar University, Dhaka, Bangladesh

## Invited Speakers

- **Prof. Dr. Debnarayan Jana**  
Department of Physics  
University of Calcutta, India
- **Dr. Hiromitsu Haba**  
Team Leader  
RIKEN Nishina Center of Accelerator-Based Science  
Japan
- **Prof. Dr. Joydeep Chowdhury**  
Department of Physics  
Jadavpur University, Kolkata-700032, India
- **Prof. Dr. Indra Dasgupta**  
Senior Professor, School of Physical Sciences, IACS  
Kolkata 700 032, India
- **Prof. Dr. Pritam Deb**  
Department of Physics DPIIT  
Chair Professor, Intellectual Property Rights Cell Tezpur  
University (Central University)  
Napaam Tezpur, 784028, India
- **Prof. Dr. Faruque-Uz-Zaman Chowdhury**  
Vice Chancellor, Hamdard University  
and Professor (Lien)  
Department of Physics , CUET
- **Prof. Dr. Saleh Hasan Naqib**  
Professor  
Department of Physics  
University of Rajshahi, Rajshahi, Bangladesh



- **Prof. Dr. Mayeen Uddin Khandaker**  
Sunway University, Malaysia
- **Dr. Gokhan SURUCU**  
Associate Professor  
Department of Energy Systems Engineering  
Gazi University, Ankara, 06500, Türkiye
- **Dr. Mohammed Nazrul Islam Khan**  
Chief Scientific Officer  
Materials Science Division, AECD  
Bangladesh Atomic Energy Commission
- **Dr. Pradip Deb**  
Senior Lecturer  
Health and Biomedical Sciences  
RMIT University, Australia
- **Prof. Dr. Bhanu Prakash Singh**  
Department of Physics  
Aligarh Muslim University  
Aligarh (UP), INDIA
- **Go Yusa**  
Department of Physics, Tohoku University  
Aobaku, Sendai 980-8578, Japan

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## Contact Persons

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