

## ABOUT THE INSTITUTE

Sant Longowal Institute of Engineering and Technology (SLIET) is Deemed University and centrally funded technical institute of Govt. of India with an aim to achieve technological excellence through innovation. It caters to the technical manpower requirements at various levels by adopting a new concept of modular system in imparting technical education with emphasis on practical training in industry. It offers Certificate, Diploma, Degree, PG and Ph.D. courses in various disciplines of Engineering Science and Management.

## DEPARTMENT OF PHYSICS

The Department offers Ph.D. and M.Sc. in Physics and other basic courses on engineering physics, modern physics and materials science to students of all engineering trades at certificate, diploma and degree levels. Besides teaching, the faculty members are engaged in active research work in their respective fields of interest covering different areas such as Materials Science, Nuclear Physics, Atomic Physics and Condensed Matter Physics etc. and have collaboration with laboratory at National and International level.

## LOCATION

The Institute is connected by road with Sangrur (16 km), Patiala (80 km), Sunam (17 km), Ludhiana (100 km), Chandigarh (150 km), Delhi (320 km). The nearby railway stations are Sangrur, Sunam, Dhuri Junction (35 km) and Barnala (30 km). The nearest airport is Chandigarh. The weather of Longowal during conference time is expected to remain pleasant.

## ABSTRACT/MANUSCRIPT SUBMISSION

Prof. M M Sinha, Chairman, AMRP-2023  
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**Email: [slietamrp2023@gmail.com](mailto:slietamrp2023@gmail.com)**

For further details, please visit the conference website:

**[HTTP://WWW.AMRP2023.IN](http://www.amrp2023.in)**

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Prof. R. B. Choudhary, IIT (ISM) Dhanbad



Call for papers



# 6th National Conference on Advanced Materials and Radiation Physics (AMRP 2023)

23-24 March 2023



Organized by;  
Department of Physics  
Sant Longowal Institute of  
Engineering and Technology  
(Centrally Funded Technical Institute of Govt. of India)  
(Deemed-to-be-University)  
Longowal, Sangrur-148106 (Punjab)  
<http://www.sliet.ac.in>



## SCOPE OF CONFERENCE

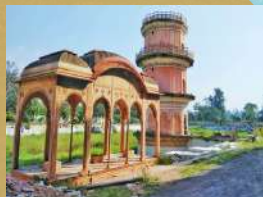
The main aim of the conference is to provide a platform to the Researchers, Scientist, research scholars and research scientist from R & D wings of industry and research institutions in the field of Materials science and radiation physics all over the country to interact with each other and share their ideas. The young scientist and students will get a chance to put forward their research work in front of experts of their particular field. So, to provide them a platform, the Department of Physics has taken an initiative to organize 6th National Conference on "Advanced Materials and Radiation Physics" (AMRP-2023) on the pattern of previous conferences organized by the department in the year 2009, 2011, 2013, 2015 and 2020. **Proceedings of our previous conferences (AMRP-2015) and (AMRP-2020) were published in AIP Conf. Proceedings bearing vol. no. 1675 and 2352 respectively.** The Conference will focus to facilitate the exchange of latest research, current practices, and future trends in the field of material Science and radiation physics that would best fit for the local as well as global needs.

## TOPICS COVERED IN CONFERENCE

- a. Smart and Nanostructured materials
- b. Electronic and Photonic Materials
- c. Materials Computational Methods
- d. Nano Biomaterials & biosystem
- e. Electronic structures and phonons
- f. Semiconductor physics
- g. Superconductivity and spintronics
- h. Surfaces, interfaces and thin films
- i. Glasses and amorphous systems
- j. Optical Properties of Materials
- k. Radiation Measurements & Inst.
- l. Radiation Sources, Reactors and Accelerators
- m. Basic Radiation Processes
- n. Radiation Induced Modification of Materials
- o. Applications of Radiations

## CONFERENCE TOUR

Conference tours for Amritsar (Golden temple, Wagha border about 225 km from Longowal) and Chandigarh (Rock garden, Sukhna lake, Rose garden, Pinjore garden about 150 km from Longowal) will be arranged for delegates on payment basis on 25th March 2023



## SUBMISSION OF ABSTRACT & PAPER

Papers will be selected for presentation on the basis of review by subject expert. The accepted papers will be published in **Scopus indexed journal** after peer review process. Authors are required to submit their original and unpublished research work for presentation in the conference. Only one paper per registered participant will be considered for publication, however, one can be a co-author of more than one paper. Participants are requested to submit their abstract and manuscript in (MS-WORD).

### Poster Award

A few posters presented in poster session will be selected for the Best Poster Awards.

### Important Deadlines

Submission of abstract & full paper: 28.02.2023  
Acceptance notification: 05.03.2023  
Registration deadline: 15.03.2023  
Conference dates: 23-24 March, 2023

### Registration

The enclosed registration form or its photocopy may be filled and sent with registration fee or fill the google form

Sr. No.	Delegates	Paper presentation only	Paper publication
1	Research Scholars	Rs. 2000	**
2	Faculty/Scientist	Rs. 2500/-	
3	Industry	Rs. 2500/-	

**\*\* paper publication charges will be asked later on as per requirement of publisher of the journal/ proceedings**

Late registration fee of Rs. 500/- extra will be charged.

### Mode of payment

The payment for the registration fees can be made in the form of demand draft drawn in favor of "AMRP-2023" or via Net Banking to the account below: Bank & Branch: Central Bank of India, Longowal A/C No.: **5319138104**  
IFSC code: **CBIN0283105**  
Branch code: 283105

### Accommodation

For Students: Rs. 300/- (Full conference period).  
For others: Rs. 300/- per day in guest house and transit accommodation respectively on sharing basis. Lady participants will be accommodated at girl's hostel with nominal charge

## Registration Form

### 6th National Conference on Advanced Materials and Radiation Physics (AMRP-2023) (23-24 March, 2023)

click here for registration  
<https://forms.gle/y8xrbtNvU4X4aQP0A>

1. Name: .....
2. Status of delegates:  
Research scholar/Faculty/Scientist/industry
3. Field of Specialization:.....
4. Name of Organization:.....
5. Mailing Address:.....  
.....
- E-mail:.....
- Telephone No.:.....
6. Accommodation required: Yes/No
7. Interested for tour on 25 th March 2023: Yes/No  
If yes (tick one): 1. Amritsar 2. Chandigarh
8. I wish to participate in conference only : Yes/No
9. I wish to present and publish paper: Yes/No
10. Title of the Paper:.....  
.....
- I am enclosing a demand draft of Rs..... in favor of the "AMRP-2023" payable at Longowal as registration fee. DD No.:.....

Or

Payment detail  
NetBanking:  
Net Banking Ref.  
No. Pay amount &  
date:

Date:.....

Signature.....