

# National Physicists' Conclave 2024

(A Premier Gathering of Indian Physicists)

(February 07 - 10, 2024)

Organized by

Department of Physics and Nanotechnology

SRM Institute of Science and Technology

Kattankulathur – 603203, Tamil Nadu

Venue: Dr. T P Ganesan Auditorium, SRM IST, Kattankulathur

Official Website: <https://npc2024.in/>



In association with

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## ABOUT THE CONCLAVE:

Unleash the Power of Physics at the National Physicists' Conclave 2024, a premier gathering of physicists, physics enthusiasts, researchers, and experts across India. Join us for an exhilarating gathering of brilliant minds, groundbreaking research, and inspiring talks. Explore the forefront of scientific discovery, network with esteemed physicists, and ignite your passion for the wonders of the universe. Experience the privilege of a lifetime as you encounter and engage with the extraordinary brilliance of STALWART PHYSICISTS of our country. Join us at this remarkable event to be inspired, amazed, and transformed. Register today and embark on an unforgettable journey of knowledge, innovation, and limitless possibilities.

## CONCLAVE OBJECTIVES:

To create an inspiring platform where faculty members and students can immerse themselves in the world of pure sciences and research. This event offers a unique opportunity for attendees to share the stage with accomplished experts from diverse realms of Physical Sciences, fostering an environment of collaboration and exploration in the captivating field of scientific discovery. Especially,

- **Indian Researchers' Triumphs:** Commemorate the remarkable achievements of Indian researchers in Physical Sciences over the past two decades.
- **Cutting-Edge Research Areas:** Get introduced to the latest research trends and cutting-edge concepts in Physical Sciences.
- **India's Global Position:** Learn about India's prominent position in Physical Sciences globally. Delve into research outputs, collaborations, international partnerships, research clusters, renewable energy advancements, government initiatives, funding opportunities and the abundance of talent in science education.
- **Charting the Path to Success:** Delve into the future research directions of Indian Physicists, aiming to elevate the scientific standing of our nation while contributing to socio-economic development.
- **Nurturing a Culture of Ideas:** Explore the art of developing original ideas and achieving groundbreaking discoveries. Learn how to tackle significant challenges and choose impactful problems to solve.
- **Revolutionizing Physics Teaching in India:** Reflect on the journey of physics teaching in India, from the past to the present, and envision the future of imparting knowledge and nurturing young minds.

## FRONTIERS IN PHYSICS: SYMPOSIA on Prime Emphasis Areas

- **High-Energy Physics (Theory and Experiment):** Exploring the Fundamental and Cosmic Frontiers
- **Quantum Materials and Technologies:** Unveiling Novel Phenomena and Enabling Quantum Technologies
- **Non-linear Dynamics and Systems:** Unravelling Complexity and Emergent Behavior in Physical and Biological Systems
- **Soft Matter Physics:** Understanding and Engineering Materials with Flexibility and Complexity
- **Condensed Matter and Device Physics (Theory, Modeling, and Experiment):** [SPONSORED by APPLIED PHYSICS LETTERS] Exploring the Properties, Behavior, and Applications of Advanced Materials
- **Photonics and Optoelectronics:** Harnessing Light for Information, Communication, and Sensing Technologies; Emerging Technology Focused on Light-Detecting Devices.
- **Machine Learning and Artificial Intelligence in Physics:** Enhancing Insights and Accelerating Discoveries through Intelligent Data Analysis [Sponsored by ACCMS and AFOSR (AOARD)]

## ACTIVITIES:

- **Inspirational Physics Talks**
  - The Big and Small Idea
  - Innovation
  - Invention or breakthrough
  - Explanation
  - Discoveries
  - History
  - Motivating
  - Whats' Next?
  - Guidance
- **Symposia on Prime Emphasis Areas**
- **Technical Sessions on Emerging Areas**
- **Scientific Presentations and Talks**
- **Poster Sessions**
- **Panel Discussions**
- **Collaborative Sessions**
- **Book Exhibition**
- **Industry and Technology Exhibition**
- **Awards and Prizes**
- **Thesis Presentation Competitions**
- **Technology Exhibition**
- **Women in Physics Meet**
- **GenZ connect - Engaging UG and PG with Stellar Physicists**

**JOURNAL PARTNER** ■ Applied Physics Letters

## CALL FOR ABSTRACTS: [Max.1000 words (or) one full-page (front & back), Figures: Optional]

Write abstracts that effectively summarize your research area and highlight your unique contributions innovatively. Please ensure that your abstract is concise, clear, and well-structured. It should provide a compelling overview of your research area and the innovative aspects of your work. [Download Abstract Template at the Official Website: https://npc2024.in/](https://npc2024.in/)

## AWARDS: [Criteria and Nomination Forms are available on <https://npc2024.in/awards/> ]

1. Young Physicist Awards [Below 45 years] (02) - Rs. 30,000/- Each + Citation
2. Young Applied Physicist Awards [Below 45 Years] (02) - Rs. 30,000/- + Citation [Sponsored by Applied Physics Letters]
3. Young Woman Physicist Awards (2): 30,000/- + Citation
4. Young Computational Physicist Award (01)
5. Young Woman Computational Physicist Award (01)
6. Best publication in Computational Physics Awards (01)
7. Best Publication of the Year 2023 Awards (05) - Rs. 20,000/- Each + Invited Lecture/Citation
8. Best Ph.D. Thesis Awards (5 nos.) – Rs. 20,000/- Each + Merit Certificate
9. Best Oral Presentation Awards (5 nos.): Rs.10,000/- Each + Merit Certificate
10. Best Poster Presentation Awards (10 nos.) – Rs. 5,000/- Each + Merit Certificate

\*Numbers in each category is subject to funding availability.

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- Phone: 044 – 2741 6236

## IMPORTANT DATES:

**Registration and Abstract Submission** : Extended to 25<sup>th</sup> January, 2024  
(Abstract Submission is Optional)

**Abstract Acceptance Notification** : 26<sup>th</sup> December 2023 onwards

**Nominations for Awards** : Extended to 20<sup>th</sup> January, 2024

(Nomination forms @ <https://npc2024.in/awards/>)

## REGISTRATION FEES [Including 18% GST]: Visit website for full details

**Students (UG & PG)** : Rs. 2,500/-

**PhD Students & Postdocs** : Rs. 4,500/-

**Faculty Members** : Rs. 6,000/-

**Regular Participants** : Rs. 7,000/-

**Industry Personnel** : Rs.15,000/-

**Transport allowance:** (2<sup>nd</sup> A/c Train or Bus Fare up to 2,500 rupees ) may be provided to UG,PG & PhD students based on the selection committee recommendation (Subject to the availability of funds), full details are available on the registration form.

**Registration fee includes:** Admission to Scientific Sessions, Conference Materials, Tea/Coffee and Lunch, Certificate of Attendance

**Registration fees including accommodation:** Visit <https://npc2024.in/registration/>

**Register @:** <https://tinyurl.com/NPC2024-Registration>

**Payment details: Registration fees are to be paid to the following account.**

**Payment options: G-Pay (using Acc. No and IFSC code) & Net banking**

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**Account Name** The Convener, ICONN 2013

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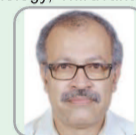
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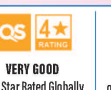
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