



**AMITY  
UNIVERSITY**

**Amity Institute for Advanced Research and Studies (Materials & Devices)**

&

**Amity Institute of Nanotechnology**

*in association with*

**Society of Semiconductor Devices (SSD) & Semiconductor Society (India)**

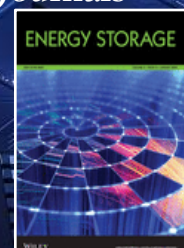
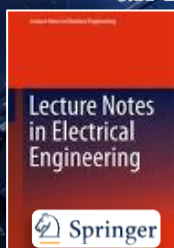
**INTERNATIONAL CONFERENCE**  
on  
**SEMICONDUCTOR TECHNOLOGIES -  
MATERIALS TO CHIPS**

**September 18<sup>th</sup> – 20<sup>th</sup>, 2024 • (Hybrid Mode)**

**AMITY UNIVERSITY UTTAR PRADESH, NOIDA**

**Publication Partners**

*Selected papers from the conference will be published after peer-review in  
an international reputed Scopus indexed Book Volume / Journals*





## ABOUT CONFERENCE

Semiconductor technology is of immense importance today, due to its transformative impact on various aspects of modern life. It plays a pivotal role in shaping our world, by driving innovation across diverse industries, and improving our quality of life. It is the backbone of modern electronics, and plays a vital role in renewable energy, medical advancements, telecom, IT, EVs, aerospace, defense, IoT, and in nearly every industry. The importance of semiconductors will only grow in the future.

Amity University Uttar Pradesh is organizing an International Conference on Semiconductor Technologies – Materials to Chips, to generate an international forum for exchange of innovative ideas, research, and recent trends in semiconductor technologies, from materials to chip designing, and to bolster collaborations with top global experts. Eminent Scientists, Professors, Students, Industrialists and Technocrats from various parts of the World are going to participate in this event. Also, in alignment with the Government's India Semiconductor Mission, which aims to develop a sustainable semiconductor and display manufacturing ecosystem in India, through \$10 billion in incentives, a special session is being organized - "Development of R&D Roadmap with Academia, Industries and Ministries in Indian context". It will be a powerful platform for our young scientists and researchers, and will generate face-to-face discussions with top scientists and industrialists.

## THEMATIC AREAS

- Materials Science
- Display Manufacturing
- IC Designing and Manufacturing
- VLSI & ULSI Technology
- Optoelectronics
- MEMS & Sensors
- Renewable Energy
- Energy Storage
- Quantum Technologies
- High Frequency & Power Devices
- Telecommunications
- Medical Instrumentation
- Aerospace and Defense Applications
- IT, IoT & AI based Technologies
- Equipment Manufacturing
- Modelling and Simulation
- Nanomaterials & Nanotechnology
- New Frontiers & Emerging Technologies

## CONFERENCE SESSIONS

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Keynote Speakers

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Plenary Lectures

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Invited Lectures

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Oral Presentations

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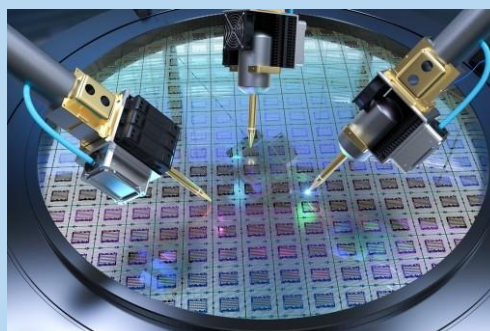
Poster Presentations

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Brain Storming Panel Discussion  
[Academia, Scientific Organizations, Industries,  
Manufactures, Startups, Ministries]

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***The shortlisted papers/manuscripts will be published in peer Scopus indexed Journal / Book volume.***



## REGISTRATION FEES

Registration fee includes a Conference Kit (during physical mode, only), Detailed Program Schedule, soft copy of Abstract Book, Digital copy of selected journals published in Scopus-indexed volume, Participation Certificate, and High Tea & Lunch on conference days (during physical mode, only).

DELEGATES	REGISTRATION FEE*			
	On or before 1 <sup>st</sup> September 2024		After 1 <sup>st</sup> September 2024	
	Physical Mode	Online Mode	Physical Mode	Online Mode
Indian Students	Rs. 2500	Rs. 700	Rs. 3500	Rs. 1000
Indian Delegates	Rs. 3000	Rs. 1000	Rs. 4000	Rs. 1500
Industry Delegates	Rs. 5000	Rs. 2500	Rs. 7000	Rs. 4000
Foreign Students	US \$ 250	US \$ 100	US \$ 350	US \$ 150
Foreign Delegates	US \$ 500	US \$ 200	US \$ 600	US \$ 300
Foreign Industry Delegates	US \$ 600	US \$ 250	US \$ 800	US \$ 400

**\* 18% GST need to pay extra with Registration Fee**

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	Dr. Ramesh Namdeo Pudake, AINT, AUUP, Noida

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- Dr. Fozia Z Haque, MANIT, Bhopal, INDIA
- Dr. Aurangzeb Khurram Hafiz, Jamia Millia Islamia, New Delhi, INDIA
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- Dr. Niraj Kumar, Amity Institute of Defence Technology, AUUP, INDIA

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- Dr. Dinkar Kanjilal, Inter-University Accelerator Centre, INDIA
- Dr. dr hab. Franciszek Krok, Jagiellonian University, Krakow, POLAND
- Dr. Francesco Buatier De Mongeot, University of Genoa, ITALY
- Dr. Manish Hooda, SCL, Department of Space Govt of India, INDIA
- Dr. J.P. Singh, IIT Delhi, INDIA
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- Dr. Venu Gopal Achanta, CSIR-NPL, INDIA
- Dr. Vikram Kumar, CARE, IIT Delhi, INDIA
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- Dr. Yves Mely, University of Strasbourg, FRANCE



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- Mr. Nitin Bhardwaj, AIARS(M&D), AUUP, INDIA
- Mr. Pramod Kumar, AIARS(M&D), AUUP, INDIA

## EMINENT SPEAKERS

### Keynote Speakers

Dr. Chennupati Jagadish, The Australian National University, Canberra, AUSTRALIA  
Dr. Ravindra Pandey, Michigan Technological University, USA  
Dr. Vikram Kumar, IIT Delhi, Ex-Director - NPL and SSPL (DRDO), INDIA

### Plenary Speakers

Dr. Avanish Kumar Srivastava, CSIR-AMPRI, Bhopal, INDIA  
Dr. Manish Hooda, Semi-Conductor Laboratory, Department of Space, INDIA

## INVITED SPEAKERS

- Dr. Abdus Salam Sarkar, Stevens Institute of Technology, USA
- Dr. Anurag Shrivastava, ABV-IITM, Gwalior, INDIA
- Dr. Dipak Goswami, IIT, Kharagpur, INDIA
- Dr. E H Yang, Stevens Institute of Technology, USA
- Dr. Francesco Buatier De Mongeot, Dipartimento Di Fisica, Universita Di Genova, ITALY
- Dr. hab. Franciszek Krok, Jagiellonian University, Krakow, POLAND
- Dr. Jagdish Narayan, North Carolina State University, USA
- Dr. Jörg J. Schneider, Technische Universität Darmstadt, GERMANY
- Dr. P.K. Iyer, IIT Guwahati, INDIA
- Dr. Pratap Vishnoi, JNCASR, Bangalore, INDIA
- Dr. Pratima Agarwal, IIT Guwahati, INDIA
- Dr. Rajender Singh, IIT Delhi, INDIA
- Dr. Ritu Shrivastava, CSIR- NPL, INDIA
- Dr. Sabu Thomas, MGU, Kerala, INDIA
- Dr. Satinder Kumar Sharma, IIT Mandi, INDIA
- Dr. Sessa Srinivasan, Florida Polytechnic University, FLORIDA
- Dr. Shantanu Gosh, IIT Delhi, INDIA
- Dr. Somnath Acharya, Yonsei University, Seoul, South Korea
- Dr. Syed Arshad Hussain, Tripura University, INDIA
- Dr. Syed Arshad Hussain, Tripura University, INDIA
- Dr. T. Som, Institute of Physics, Bhubaneswar, INDIA
- Dr. Vasant Sathe, UGC-DAE Consortium for Scientific Research, INDIA
- Dr. Venu Gopal Achanta, CSIR- NPL, INDIA
- Dr. Y. B. K. Reddy, Axis Energy Ventures India Pvt Limited., INDIA
- Dr. Yasuhiro Fukuma, Kyushu Institute of Technology, JAPAN

*Further will be updated soon...*

## DELEGATES

Online Registration starts from	1 <sup>st</sup> June 2024
Deadline of Early Registration ( <i>final extension</i> )	1 <sup>st</sup> September 2024
Last Date for Registration	15 <sup>th</sup> September 2024
Abstract Submission Deadline ( <i>specially extended only for online mode</i> )	31 <sup>st</sup> August 2024
Abstract Acceptance Deadline	1 <sup>st</sup> September 2024
Manuscript Submission Deadline	30 <sup>th</sup> September 2024
Manuscript Acceptance for Review Deadline	15 <sup>th</sup> October 2024

**Amity Institute of Advanced Research and Studies [Materials and Devices] (AIARS [M&D])**

**AIARS[M&D]** is a multidisciplinary R&D Institute (*Physics, Chemistry, Biochemistry & Biotechnology, Mechanical, Electrochemist, Electronics & Instrumentation, Microbiology, Engineers*) focusing from Materials Synthesis to Devices to System Fabrication. **Under the kind guidance and a broad vision of our Founder President, Dr. Ashok K. Chauhan, the AIARS (M&D) was established under the leadership of Dr. V. K. Jain.** The objective of the institute is to invent new materials, develop new technologies and reach up from lab-to-land and mind-to-market, for the benefit of society. It also includes publishing research papers in good & reputable journals and patenting the technology. Technology transfer is also a motive for our all researchers. Institution has one of the most proactive team of faculty, scientists and researchers who are leading the way in various cutting-edge areas such as Energy generation & Storage, Photovoltaics, Phase Change Materials, Si Nanowire on Si Chip, Synthesis of Nano-materials, Electro-optical sensors, Gas sensors, Optical sensors, Bio-Sensors, Organic Light Emitting Diodes, Applications of nanotechnology in Microbiology, Water Purification and Bio-Nano & Bio-medical Technologies, Instrumentation, Signal processing with software, Characterization. AIARS has shown progression in research & development through reputed international journal publications, govt. funding projects, patents, awards, and technology transfers.

**AIARS (M&D) along with AIRAE offers UG, PG and Doctoral programs in:**

- Solar & Alternate Energy (UG & PG)
- Doctoral Program in Materials and Devices
- Doctoral Program in Biosensors
- Doctoral Program in MEMS & NEMS
- Doctoral Program in Renewable Energy
- Doctoral Program in Solar Energy

**Amity Institute of Nanotechnology (AINT)**

Established in 2003, today, AINT is one of the world's leading research and academic institutes. It offers UG, PG programs in Nanoscience, Nanotechnology, Quantum Technology, Semiconductor Technology and Doctoral programs in Nanoscience and Nanotechnology, while strictly adhering to the guidelines laid down by University Grants Commission (UGC). It is steered by nationally and internationally acclaimed faculty members with exceptional scientific backgrounds, committed to train students in the cutting-edge arenas of nanotechnology. The students benefit from a globally-benchmarked syllabus, hands-on training on equipment and constant academic and research guidance by the renowned academic and scientific body.

AINT strives to impart much-needed mentoring for leadership in today's rapidly changing world, and has numerous specialized areas of interdisciplinary research, and state-of-the-art laboratory infrastructure. In the last few years, AINT has exhibited exponential growth in research with more than 586 research papers, 47 extramural research grants worth 13.03 crores, 100 patents and one technology transfer. AINT is recognized by DST-FIST (Level 1 and Level 2) Govt. of India for support of its research and academic excellence.

**AINT offers UG, PG and Doctoral Programs in**

- Nanoscience
- Nanotechnology
- Quantum Technology
- Semiconductor Technology and Instrumentation
- Doctoral Program in Nanoscience and Nanotechnology

**Society of Semiconductor Devices (SSD)**

SSD has been a very renowned and reputed society (not-for-profit), since more than 40 years. They promote science and technology of semiconductor materials and devices. They organized many conferences and events throughout the country.



**Semiconductor Society (India) [SSII]**

Semiconductor Society (India) is a not-for-profit professional body serving Semiconductor Community for about four decades. It currently has more than thousand members. Their aim is to promote mutual interaction between scientists and technologists working in the field of Semiconductor Materials and Devices.



For further details and information, kindly visit <https://amity.edu/ICST2024/default.asp>

Contact Us: [averma5@amity.edu](mailto:averma5@amity.edu), [mjoshi@amity.edu](mailto:mjoshi@amity.edu), [rkumar5@amity.edu](mailto:rkumar5@amity.edu), 9899589706 (M), 9873767533 (M)