

International Conference

on

Laser Deposition:

Nanostructures, Heterostructures and 2D layers
(iCOLD-2019)

November 27-29, 2019

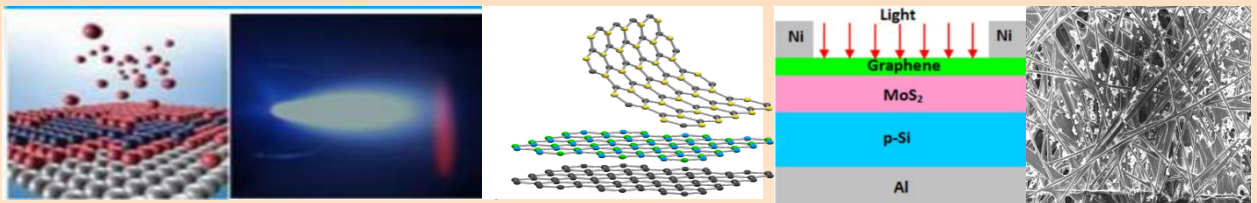
Organized by

Departments of Electronics and Communication & Mechanical Engineering

Alva's Institute of Engineering and Technology
Moodbidri, Karnataka - 574225

In association with

Indian Institute of Technology Madras



About AIET: Alva's Institute of Engineering & Technology (AIET) is a premier Engineering Institute of Alva's Education Foundation (AEF) established in the year 2008. AIET is 18 km from Mangalore International Airport and is strategically located adjacent to Moodbidri-Mangalore National Highway. It has a lush green campus spread over 30 acres, a part of Alva's-Shobhavana, 144 acres spread on a famous herbal garden with more than two thousand variety of herbal plants. The vision of the institute is to impart quality technical education, moral values, social concern and patriotism to the students and mold them into excellent professionals and good citizens; and its mission is to set up a center of excellence by offering world-class technical education and research opportunities of very high standard and making the students ethically strong and technologically among the best.

Scope of the conference: This conference aims to review the advancement in nanostructures, heterostructures and 2D layers from physics and technology points of view. Laser aided Deposition techniques and Atomic Layer Deposition are the key techniques enabling researchers in the realization of device quality thin films, heterostructures and multi-layers. The scope includes a variety of materials such as semiconductors, superconductors, ferroelectrics, multi-ferroics, polymers, nano-materials, organic materials, photonic materials, 2D systems, computational aspects, surface coatings, bio-medical coatings and also novel technologies for very low frequency vibration sensors and energy harvesters, proton exchange membrane fuel cells and other advanced devices.

The conference will comprise plenary and invited talks, oral and poster presentations. It is hoped that this international conference will provide a platform, both for specialists and research students, to present their latest results on their work.

Call for papers

Technical/Research papers are invited from scientists/research scholars/faculties in the areas mentioned below.

Topics to be covered, but not limited to

- Thin film science and technology of advanced materials, heterostructures, multilayers and super-lattices
- Fundamentals of Laser-Material Interactions
- Ultrafast Phenomena and Phase Transformations
- Emerging Trends in Photo-excitations and New Applications
- Pulsed Laser Deposition
- Lasers in Nanoscience – Photonic Fabrication at Nanoscale
- Laser Interactions with Organic and Biological Materials
- Atomic Layer Deposition
- Thin film growth kinetics in Pulsed Laser Deposition and Atomic Layer Deposition
- Novel materials, nano and heterostructures and 2D layers
- Computational aspects of materials
- Smart materials including shape memory alloys
- Ferroelectrics and Multi-ferroics and their multilayers
- Organic and Inorganic photonic materials
- Superconductors and topological insulators
- Low and very low frequency vibration sensors
- Energy harvesters and proton exchange membrane fuel cells
- Technologies & devices for emerging electronics
- Surface coatings including high laser damage-resistant coatings
- Characterization techniques and measurement protocols
- Mechanisms, Modeling, and simulations

Instruction to authors:

The abstracts (not exceeding one A4 page, single spaced, Times New Roman 12 font) should include Full name and affiliation of all authors and e-mail id and phone number of the corresponding author.

Manuscripts should be in single spaced on A4 Paper with font size 12 and not more than SIX pages in length, including figures and tables.

Reference number should be in square bracket in the text and should be listed at the end of manuscript with author name, year, title, journal, volume, issue and page number.

Who can participate?

Faculty from Academic Institutions

Research Scholars and PG students

Engineers/Scientists from Industry and R & D Centers

Important Dates:

Last date for submission of Abstracts: September 15, 2019

Intimation of Acceptance: October 15, 2019

Last date for submission of Full length Paper*: October 30, 2019

*[*Papers will be reviewed and accepted papers will be published in SCOPUS indexed journal]*

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Registration Fee:

Research Scholars/PG Students: Rs. 2,000/-
Faculty of Academic institutions: Rs. 5,000/-
Researchers from Industry: Rs. 8,000/-
International Participants: USD 100/-

Accommodation:

Accommodation will be provided based on prior request, first-come first-served basis.

Details of Registration, Abstract/ Manuscript submission, Payment of fees and Accommodation are available in the website : <http://aiet.org.in/icold.html>

Contact: 9892818760, 9611945201, 9964810960, *Email:* icold2019@aiet.org.in

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