

ICMSE-2019 Conference

Department of Mechanical Engineering under the aegis of NITJ is organizing an International Conference on Materials Science and Engineering (ICMSE) from June 11 to 12, 2019 in collaboration with Govt. Women Engineering College, Ajmer. The present conference aims at providing a leading forum for sharing original research contributions and practical developments in the field of Materials Science and Engineering so as to contribute its share for technological advancements. Globalization provides all around development and this development is impossible without technological contributions. Hence, the present conference aims at providing a leading forum for sharing original research contributions and practical developments in the field of Materials so as to contribute its share for technological advancements.

Dr. B. R. Ambedkar National Institute of Technology, Jalandhar

The Institute is named after Bharat Ratan Dr B. R. Ambedkar, founder of Indian Constitution. The institute came into existence in the year 1988 as Regional Engineering College on a beautiful campus of about 154 acres close to the heart of Jalandhar city. The institute obtained the status "Institute of National Importance" by Act of Parliament in 2007. The institute is located on the G.T Road Amritsar bye-pass at a distance of 15 km from Jalandhar Bus Stand, 12 km from Jalandhar City Railway Station, and 18 km from Jalandhar Cantt. railway station. The institute is well connected to the National Capital through rail and road link.

Department of Mechanical Engineering

The Department of Mechanical engineering was founded in 1990 and has grown as one of the dynamic departments of the Institute over the last three decades. The department offers B Tech, M Tech and PhD programmes. The B.Tech program is accredited by the NBA.

Call for Papers/Posters

The organizers invite papers from students, teachers, scientists and researchers in academia and industry to present the results of their research and development efforts in the field of Materials Science and Engineering.

Papers must report original academic or industrial research in any of the following topics not limited to but relevant to the conference.

Track - 01: Composite Materials

- Polymer composites
- Ceramic & Metal Matrix Composites
- Green Composites
- Fibrous & Particulate Composites
- Hybrid composites
- Self-healing Composites
- Micro & Nano Composites
- Nano-Mechanics & Nano-Electronics

Track - 03: Metals, Ceramics, Polymers, Bio-Materials

- Manufacturing of Metal, Polymer, Ceramic Based Materials
- Materials for Green Technology
- Tribology and Surface Engineering
- Heat Treatment
- Solidification, Processing & Corrosion
- Powder Metallurgy
- Additive Manufacturing
- 3-D Printing
- Welding

Track - 02: Multiscale Modeling of Materials

- FEM Modeling of Materials
- Density Functional Theory Analysis
- Monte-Carlo Technique
- Meso-scale Modeling
- Molecular Dynamics Modeling of Materials

Track - 04: Mechanical Properties

- Fracture & Damage
- Fatigue
- Dynamic Fracture
- Dynamic Behavior
- Wear
- Interfaces/ Interphases
- Creep
- Effect of Aggressive Environment
- Stress-Strain Behavior
- Strain-Rate Dependence
- Young's Modulus, Tensile Strength, Poisson's Ratio and Other Properties

Author Guidelines

The presenters should submit an abstract of approximately 300 words with Times New Roman, 12 point, fonts in Windows-based Microsoft Word (.doc / .docx) document by

attaching an e-mail to icmse2019@nitj.ac.in by mentioning the **Track No.** and **Type of Presentation** (i.e., Oral or Poster) in the mail subject with other relevant details. The abstract shall be reviewed by a peer committee. Selected manuscripts will be accepted for either oral or poster presentation. All the templates and detailed guidelines are available at website (<http://nitj.ac.in/icmse2019>). All the presented papers will be published as conference proceedings. Selected Papers of the 1st ICMSE conference will be considered for publication in ESCI journal (Nanoscience and Technology: An International Journal) after the conference. The paper sent to the journal should contain no more than 30% data from the paper presented at ICMSE-2019. The authors will be submitting their papers to the above journal and at the same time will send an E-mail to the conference organizers as well as the Journal Editor stating that the paper has been presented at ICMSE-2019. The Peer-Review will be performed by the Journal itself.

Registration Fees

At least one author of each accepted paper must register by June 5th, 2019 in order for the paper to be included in the proceedings. Student registrations are only acceptable if first author of the paper is a full-time student at an Institution.

Registration Details

The registration fees for attending the conference:

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|----------------------------|------------|
| Participants from Industry | INR 10,000 |
| Participants from Academia | INR 6,000 |
| Attendees Only | INR 4,000 |
| Student Participants | INR 3,000 |
| Foreign Students | USD 150 |
| Foreign Academia | USD 300 |

Important Dates

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|--------------------------------------|----------------|
| Abstract Submission | March 11, 2019 |
| Acceptance of Abstract | April 11, 2019 |
| Submission of Full length Manuscript | May 11, 2019 |
| Notification of Acceptance | May 20, 2019 |

Registration begins May 25, 2019
 Authors Registration ends June 5, 2019
 Participant Registration till June 10, 2019

Organizing Committee

Patron: Prof. L.K. Awasthi, Director, NIT Jalandhar
Chairman: Dr. Pramod Kumar
Organizing Secretary: Dr. Sumit Sharma/
 Dr. Jai Gopal Gupta
Treasurer: Dr. Dinesh Kumar Shukla

Joint Secretaries:

| | |
|--------------------------------|-----------------------|
| • Dr. Rajeev Kukreja, HOD (ME) | • Dr. Ashok Kumar |
| • Prof. Anand Vaz | • Dr. Dwesh K. Singh |
| • Prof. Subhash Chander | • Dr. Manoj Kumar |
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International Advisory Committee

- Prof. M.M. Shokrieh, IUST, Iran
- Prof. J.N. Reddy, Texas A & M University, USA
- Prof. Richard Christensen, Stanford University, USA

Accommodation Guidelines

Delegates will be provided suitable accommodation in the Institute. This accommodation is limited and will be available to registered participants on a first come first served basis. Accommodation charges will be borne by the delegates. For student delegates, accommodation will be provided at hostels on campus at nominal charges.

Address for Communication

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Payment of Fees:

DD in favour of "ICMSE 2019 Conference" payable at

Jalandhar **or**

Bank Transfer - Account Number:
 State Bank of India, REC Jalandhar (Branch Code: 50841)
 IFSC Code: SBIN0050841
 SWIFT Code: SBININBBP36
 MICR Code: 144002065

For further details, please visit the
 conference website: <http://nitj.ac.in/icmse2019>



*We request you to have a regular watch on our
 Conference website for updates.*

1ST INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING ICMSE-2019

JUNE 11-12, 2019



Organized by:

Department of Mechanical Engineering
Dr B. R. Ambedkar
National Institute of Technology
JALANDHAR-144011
PUNJAB, INDIA

&

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Govt. Women Engineering College,
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