

ICMME-2020 Conference

Department of Mechanical Engineering under the aegis of NITJ is organizing 2nd International Conference on Mechanical and Materials Engineering (ICMME) from July 14-15, 2020. The 1st International Conference was successfully held from 11-12 June 2019 at NITJ. The present conference aims at providing a leading forum for sharing original research contributions and practical developments in the field of Mechanical and 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
- FEM Modeling of Materials
- Density Functional Theory Analysis
- Monte-Carlo Technique
- Meso-scale Modeling
- Molecular Dynamics Modeling of Materials

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: Thermal and fluid engineering

- Nanofluids
- Renewable energy
- Refrigeration
- Fluid dynamics
- Modeling and simulation of nanofluids
- Alternative fuels
- Thermal comfort
- Building Energy Efficiency
- Energy Simulations
- Sustainable Buildings
- Computational Fluid Dynamics
- MEMS Design and Microchannel Cooling
- Optimization in Thermal Devices and Energy Management

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 through the following easy chair link:

<https://easychair.org/conferences/?conf=icmme2020>

and also by attaching an e-mail to icmme2020@nitj.ac.in

by mentioning the **Track No.** and **Type of Presentation**

(i.e., **Oral**) in the mail subject with other relevant details.

The abstract shall be reviewed by a peer committee.

Selected manuscripts will be accepted for oral presentation.

After the acceptance of the abstract, the authors are

required to submit the full paper again through the same

link of easy chair. All the templates and detailed guidelines

are available at website (<http://nitj.ac.in/icmme2020>). All the

presented papers will be published as scopus indexed

conference proceedings.

Registration Fees

At least one author of each accepted paper must register

by June 14th, 2020 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:

Participants from Industry	INR 8000
Participants from Academia	INR 6000
Student Participants	INR 4000
Students from Abroad	USD 150
Academia from Abroad	USD 300

Important Dates

Abstract Submission Ends March 14, 2020

**Acceptance of Abstract/
Paper Submission Starts** April 30, 2020

Paper Submission Ends May 14, 2020

**Acceptance of Paper/
Author Registration Starts** May 30, 2020

Author Registration Ends June 14, 2020

Organizing Committee

Chief Patron: Prof. L.K. Awasthi, Director, NIT Jalandhar

Patron: Dr. D.K.Shukla, HOD (ME), NIT Jalandhar

Chairman: Dr. Pramod Kumar

Organizing Secretary: Dr. Sumit Sharma/
Dr. Manoj Kumar

Joint Secretary: Dr. Dwesh K. Singh/ Dr. Rajan Rana

Convener: Dr. Saurabh Kango

Co-Convener: Dr. Nitin Sharma

Publication Chair (Thermal) : Dr. Sanjay

Dr. Satyender Singh

Publication Chair (Design) : Dr. Ashok Bagha

Institute Advisory Committee:

- | |
|-------------------------|
| • Prof. Anand Vaz |
| • Prof. Subhash Chander |
| • Dr. Rajeev Kukreja |
| • Dr. R.S. Bharj |
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- Prof. K. Sankaranarayana Samy, NIT Tiruchirappalli

International Advisory Committee

- Dr. Prakash Srirangam, University of Warwick, U.K.
- Dr. Tuan Anh Nguyen, Vietnam Academy of Science and Technology

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 "ICMME 2020 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/icmme2020>



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

2ND INTERNATIONAL CONFERENCE ON MECHANICAL & MATERIALS ENGINEERING ICMME-2020

JULY 14-15, 2020



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