



With Virtual Presentation

1st National Conference

on

“Materials, Mechanics & Modelling”

NCMMM-2020

29th & 30th August, 2020

Organised by

Department of Mechanical Engineering, National Institute of Technology Jamshedpur, Jharkhand, India

Sponsored by



Conference Theme

This conference is inspired by the fusion of the mechanics and the materials science fields from the modelling viewpoints to yield new methodologies and simulation-based engineering. It has been challenged to overcome spatial and temporal scale limitations by tackling materials complexities, synergizing modeling and experiment, strengthening multidisciplinary approaches, broadening applications of MMM. These successive meetings have been concentrating the wisdom of materials and computational mechanics scientists, mathematicians and technologists. NCMMM-2020 brings in cutting-edge studies in all aspects of material theories, mathematics, modeling, simulation, and design, not only for developing fundamental MMM concepts, but also for tackling more complex and multi-physics problems in real-life scenario.

About NIT Jamshedpur

National Institute of Technology Jamshedpur (earlier known as Regional Institute of Technology) was established on 15th August 1960 as a joint venture of Government of India and the Government of Bihar in the chain of Regional Engineering Colleges in India with the aim to generate technical graduates of highest standards who could provide technological leadership to the region. On 27th December 2002, RIT Jamshedpur was converted to NIT Jamshedpur as per the decision of Govt. of India. The Institute has 12 departments including engineering, science and humanities. The Institute, with 200 faculty, 4000 students, 150 administrative and supporting staffs, is a self-contained campus. It is located on the outskirts of Jamshedpur on 341.3 acres of sprawling, rolling hilly, wooded land.

Conference Topics

Synthesis, Characterization and Modelling

- Smart and Hybrid Materials
- Advanced Composite Materials
- Bioactive Materials
- Thermal Barrier Coatings
- High performance Alloys
- Superhydrophobic Materials
- Phase Change Materials
- Other Alternate and Future Generation Materials

Energy Efficient Processes and Devices

- Cryogenics
- Nanofluidics
- Computational Fluid Dynamics
- Turbo Machines & Jet Propulsion
- Energy Storage System
- Micro- and Nano-scale Transport
- Multi-phase Flows
- Hybrid Engines
- Renewable Energy
- MEMS

Analysis of Machines & Structures

- Robotics and Automation
- Power Transmission System
- CAD/CAM/CAE
- Mechanical System Design
- Vibration & Acoustics
- Aerodynamics
- Rotor Dynamics
- Creep and Fatigue
- Tribology
- Structural Health Monitoring

Other Advance topics under Conference Theme

Organising Committee

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 Dr. Souptick Chanda, IIT Guwahati
 Dr. Afzaal Ahmed, IIT Palakkad

[Complete list will be updated soon](#)

Invited Speakers (Tentative)

Prof. B. K. Gandhi, IIT Roorkee
 Prof. Alok Satapathy, NIT Rourkela
 Prof. R. Vasudevan, VIT Vellore
 Dr. Subrata K. Panda, NIT Rourkela
 Dr. V. C. Srivastava, CSIR-NML, Jamshedpur
 Dr. Souptick Chanda, IIT Guwahati
 Dr. Afzaal Ahmed, IIT Palakkad

[Full speaker list will be announced soon](#)

Call for Papers

It gives us immense pleasure to invite you to submit your worthy research findings in the form of paper to present and publish in NCMMM-2020.

Prospective authors of contributory papers are requested to submit their full manuscript (**minimum 04 pages**). After the peer review, all accepted papers will be published in Scopus Indexed Conference Proceedings.



Submit Your Full Paper to
ncmmm-2020@nitjsr.ac.in on/before 25th July 2020.
 For complete details and updates, please visit
 Conference website:
<https://sites.google.com/a/nitjsr.ac.in/ncmmm-2020>

Mode of Presentation

Due to Novel COVID19 Pandemic, NCMMM-2020 facilitates participants to present their paper with any one of these modes:

- On-Site Presentation (*As per Govt . of India guidelines*)
- Live Online Interactions during the scheduled session.
- Recorded Video/powerpoint presentation

Important Dates

Last Date of Full Paper Submission	25th July 2020
Acceptance Notification	10th Aug 2020
Last Date of Registration	20th Aug 2020

Registration Details

At least one author of the accepted manuscript must register in the conference. All the participants will receive e-certificate for their presentation/participation and other online conference proceeding materials.

Category	Registration Fee	
	Indian delegates	Foreign delegates
Students/ Research Scholars (Regular)	₹ 5500/-	US\$ 85
Faculty/Scientists	₹ 6500/-	US\$ 100
Industry Persons	₹ 7000/-	US\$ 110
Only participation	₹ 1000/-	US\$ 50

*Payments will be accepted only through
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Contact details

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