

About MATHED-2022

The conference is named as (MATHED 2022). The conference intends to provide a general platform to various academicians, scientists, researchers, research scholars and industry persons throughout the globe working in the broad areas of Mechanical Engineering (Design, Thermal and Manufacturing Engineering) and allied areas to exchange and share their experiences and researches with the world.



National Institute of Technology Hamirpur is one of the thirty-one NITs of the country, which came into existence on 7th August 1986 as Regional Engineering College, a joint and cooperative enterprise of the Govt. of India and Govt. of Himachal Pradesh.

About Department of Mechanical Engineering

The Department of Mechanical Engineering has evolved into one of the finest in terms of teaching curriculum and methodology supported by a well-organized and adequately funded research program. The Department has a very well-established B. Tech program complemented by three M. Tech. programs in Design, Thermal, and Manufacturing.

Dr. Sant Ram Chauhan (Head of Department)

On 26th June 2002, REC Hamirpur was awarded the status of Deemed University and upgraded to National Institute of Technology. The goals of the Institute as embodied in logo are truly remarkable in their scope and vision. The Institute offers Bachelor, Master and Doctoral programmes in Engineering, Sciences, Architecture, Management and Humanities.

Prof. Hiralal Murlidhar
Suryawanshi
(Director)

www.nith.ac.in

Conference Themes

Topics for MATHED-2022 include three different core streams of Mechanical Engineering with Fundamental, Numerical / Computational and Application, but are not limited, to the following:



1

MANUFACTURING

- Artificial intelligence applied, optimization methods in manufacturing
- Automation and production control
- Computer-based manufacturing technologies: CNC, CAD, CAM, FMS & CIM
- Machining (traditional and nontraditional processes)
- Manufacturing design for 3r "reduce, reuse, recycling"
- Mechatronics and robotics
- Nanomaterials and nanomanufacturing
- Rapid manufacturing technologies and prototyping
- Real-time enterprise control
- Robust design and quality engineering
- Stochastic models and decision analysis
- Supply chain systems

2

THERMAL

- Computational Fluid Mechanics
- Micro, Nano-scale Transport
- Turbomachinery
- Propulsion and Power
- Heat and Mass Transfer
 - Renewable Energy
 - IC Engines and Biofuels
 - Flow measurement and flow visualization
 - Circular Economy and Sustainability
 - Nanofluids

DESIGN

- Applied and Computational Mechanics
- Finite Element Modelling and Simulations
- Extended FEM, Meshfree Methods
- Engineering System Design/CAD, Optimization
- Fracture Mechanics/Solid Mechanics/Automotive Mechanics, Fatigue and Failure of Components
- Tribology and Contact Mechanics
- Vibration, Acoustics, Noise and Control, Condition Monitoring
- Kinematics and Dynamics, Robotics

Important Dates

Draft Paper Submission end:

Notification of Acceptance:

Registration ends:

Conference date:

30, Nov. 2022

15, Jan. 2023

10, Feb. 2023

15-17, January 2023

Registration Fee Details

A maximum of two papers can be presented with a single registration.

National and International Participants (GST + Transaction charges are additional)		(INR)	(US\$)
Participants from Academia/	/R&D	2000	200
Participants from Industry	•••••	4000	250
Students	•••••	1000	100

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(Fee once paid is not refundable or adjustable under any circumstances in future.)

MATHED-2022 invites academicians, researchers, industrial participants and students to submit their original research work in the Thermal, Manufacturing, and Design fields. The paper should be restricted to 6 pages with an abstract of a maximum of 250 words and 5 keywords. Authors are requested to restrict the similarity index to 20%. The received manuscripts will be reviewed by a technical committee.

PUBLICATIONS: (Special Issues / Conference Proceedings)

Selected papers covering conference theme will be published in conference proceeding/book series index in Scopus/Web of Science.

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Keynote Speakers

MANUFACTURING



MUSTAFIZUR RAHMAN
Professor,
Dept. Mechanical Engg.
National University Singapore
(NTU), Signapore





PUNEET TANDON
Professor,
Dept. Mechanical Engg.
IIITDM Jabalpur, India



INDERDEEP SINGH
Professor,
Dept. Mechanical &
Indusrial Engg.
IIT Roorkee, India



J. RAMKUMAR
Professor,
Dept. Mechanical Engg.
IIT Kanpur, India



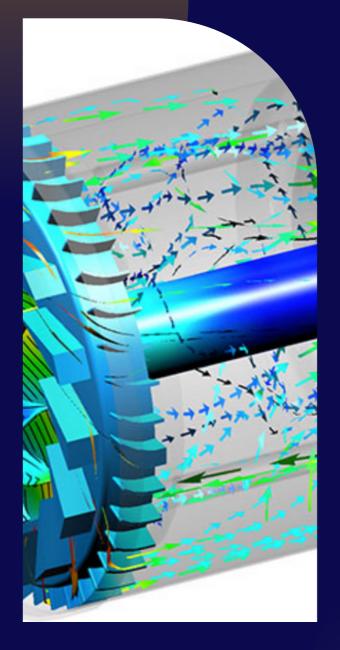
PRAVEEN VETTIYATTIL
Inventor, TEDx speaker,
'You Can Invent' founder,
CEO - YCITechnologies
Kerala, India



RAKESH THAKUR
Senior Scientist,
TBRL, DRDO, Chandigarh



NAVDEEP BHANDARI Senior Scientist, ISRO, Trivendrum



Keynote Speakers THERMAL



PRADEEP BANSALDeputy Editor-in-Chief Applied Thermal



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ANUPAM DEWAN
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Professor, Center for
Advanced Materials,
Qatar University, Quatar

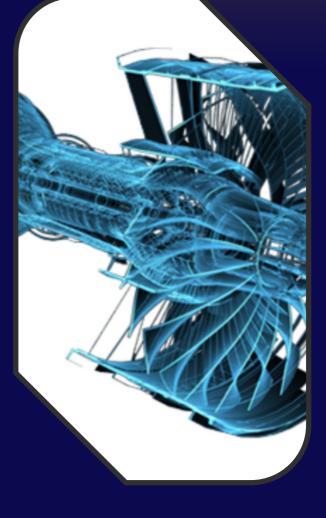
Keynote Speakers DESIGN



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SUBIR KUMAR SAHA
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IHFC Chair Professor and
Project Director, IHFC, IIT
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