

Paper Submission (mail at):  
**[icfmmp@lpu.co.in](mailto:icfmmp@lpu.co.in)**

4<sup>th</sup> International Conference on  
**Functional Materials,  
Manufacturing & Performances  
(ICFMMP-2023)**  
**SERB Sponsored**

Conference Date: **25<sup>th</sup> - 26<sup>th</sup> Aug, 2023**  
Mode of conference: **Hybrid (Onsite/Online)**

Organized by:  
**Research and Development Cell, Lovely  
Professional University**



## LOVELY PROFESSIONAL UNIVERSITY

Lovely Professional University (LPU) is a multi-faculty research-oriented institution with hi-tech campus offering more than 200 professional programmes. LPU campus is a complete world in itself having students from 28 states of India and more than 50 countries of the world.

LPU is a world class institution with internationally benchmarked curricula, innovative pedagogy focused on experiential learning, cutting edge research, 300+ foreign tie-ups, well qualified faculty with industry exposure, outstanding sports & cultural facilities, excellent residential facilities, In-campus shopping mall, hospital, banks, postal services etc.

The University is ranked high on various parameters by government bodies and other credible organisations. LPU is recipient of various awards and recognitions and accreditations. Times Higher Education Impact Ranking 2022 has ranked LPU as 74<sup>th</sup> Globally and 2<sup>nd</sup> in India. The University has also been ranked 38<sup>th</sup> in NIRF Rankings 2023 by MOE, Government of India amongst all government and private universities in India. It has been ranked amongst top institutions of India in various disciplines i.e. 16<sup>th</sup> in Architecture, 16<sup>th</sup> in Law, 17<sup>th</sup> in Pharmacy, 32<sup>th</sup> in Management and 50<sup>st</sup> in Engineering. LPU also has the distinction of being the first private university in India to get ICAR accreditation from Ministry of Agriculture, Govt. of India for its Agriculture programmes.

## ABOUT CONFERENCE

Research and Development Cell under the aegis of Lovely Professional University is organizing an 4th International Conference on Functional Materials, Manufacturing and Performances (ICFMMP) from 25th-26th Aug, 2023. This is the 4th series of ICFMMP after the success of ICFMMP-2019, ICFMMP-2021 and ICFMMP-2022. Globalization provides all around development and this development is impossible without technological contributions. Hence, the ICFMMP will provide the current challenges and blooms in materials science and advanced manufacturing for various industrial applications like aerospace, automobile, marine, and biomedical also including Additive Manufacturing, 3-D printing, bio-manufacturing and smart manufacturing systems. The ICFMMP conference aims at providing a leading forum for sharing original research contributions & practical developments in the field of Materials & Advanced Manufacturing so as to contribute its share for technological advancements.

## OBJECTIVES

- The main objective of the conference is to provide a unique platform to facilitate the scientists, researchers, academicians, industrialists, and students to share the recent advancements & the challenges in the all aspects of Functional Materials, Manufacturing & Performances.
- To review the state of knowledge, present the results of scientific work, implementations, and innovations, as well as discuss and exchange experience in the field of Materials Science, Processing, & Manufacturing for various industrial applications like aerospace, automobile, marine, and biomedical.
- To exchange Innovative Ideas among the researchers in the area of materials science and advanced manufacturing for various industrial applications like aerospace, automobile, marine, & biomedical also including Additive Manufacturing, 3-D printing, bio-manufacturing and smart manufacturing systems from all around the world.
- To provide an opportunity for national and international experts and industry leaders to share their experiences.

## THRUST AREAS/TRACKS

- Track 1.** Functional and Smart Materials
- Track 2.** Advanced Manufacturing Technology
- Track 3.** Modelling, Analysis and Optimization of Manufacturing Processes
- Track 4.** Materials Properties
- Track 5.** Sustainable and Advanced Remanufacturing Processes
- Track 6.** Manufacturing and Industrial Engineering

## IMPORTANT DATES

<b>Paper Submission Starts</b>	<b>February 10, 2023</b>
<b>Paper Submission Closes</b>	<b>Aug 20, 2023</b>
<b>Registration Open</b>	<b>April 1, 2023</b>
<b>Registration Closes</b>	<b>Aug 24, 2023</b>
<b>Conference Dates</b>	<b>25th-26th Aug, 2023</b>

# KEYNOTE SPEAKERS



## Dr. C. P. Paul

Head, Laser Additive Manufacturing Laboratory Raja Ramanna Centre for Advanced Technology Government of India, Department of Atomic Energy Research Interests: Additive Manufacturing research at the intersection of advanced design methods, manufacturing and materials processing technologies, and materials science.



## Prof. Niraj Bala

Professor  
Research Interests: Entrepreneurship Development & Industrial Coordination, Industrial Coordination, Manufacturing processes and Surface Engineering  
NITTTR, Chandigarh



## Prof. Seeram Ramakrishna

Vice-President (Research Strategy) and Dean of Faculty of Engineering; Chair of Circular Economy Taskforce and top four authors at the National University of Singapore (NUS) Research Interests: Materials Science and Engineering, Sustainability National University of Singapore, Singapore.



## Prof. Kaushal A. Desai

Professor  
Research Interests: CAD/CAM, CNC Machine Tools, Smart Manufacturing, and Product Design and Development  
Department of Mechanical Engineering  
Indian Institute of Technology Jodhpur



## Prof. Sanjay Mathur

Director,  
University of Cologne in Germany  
Research Interests: Nanomaterials and advanced ceramics for energy technologies  
Institute of Renewable Energy Sources, China.



## Dr. Satish Kumar

Associate Professor  
Research Interests: Computational Fluid Dynamics, Erosion Wear, Flow Phenomena of Solid-Liquid Flow in Pump and Pipeline  
Mechanical Engineering  
National Institute of Technology Jamshedpur



## Prof. Ramamoorthy Ramesh

Professor of Physics and Astronomy,  
and Vice President for Research  
Research Interests: Materials Science  
and Nanoengineering Rice University,  
USA



## Dr. Rajesh Ghosh

Associate Professor  
School of Mechanical and Materials Engineering  
Indian Institute of Technology Mandi  
Himachal Pradesh -INDIA  
Research Interests: Mechanical Engineering



## Professor, Duc Truong PHAM

Professor Chair of Engineering at the University of Birmingham, UK. Research Interests: Mechanical, manufacturing, computer and systems engineering. Fellow of the Royal Academy of Engineering, Learned Society of Wales, Society of Manufacturing Engineers, Institution of Engineering and Technology, and Institution of Mechanical Engineers.



## Dr. Satish Tailor

Chief Scientist & Thermal Spray Technocrat  
| GM-R&D | Founder and General Secretary of The Indian Thermal Spray Association  
Research Interests: Thermal spray coatings  
Metallizing Equipment Co. Pvt. Ltd., Jodhpur-india



## Prof. Ravi Kumar N V

Professor of Ceramics & Head of the Department of Metallurgical and Materials Engg., Research Interests: High-Performance Ceramics Indian Institute of Technology, Madras Co-founder & Director, Ceratattva Innotech Pvt Ltd., Chennai, Tamil Nadu, India



## Dr. Mohd Ubaidullah

Department of Chemistry, College of Science  
Research Interests: Interface Science, Ceramics, Environmental Pollution, Crystal Growth & Design, Composites  
King Saud University, Saudi Arabi



## Prof. Kaushik Pal

Professor Head, Advanced Composites Lab Research Interests: Biomedical Implants, Targeted Drug Delivery (TDD), Energy harvesting and Storage Applications, High Performance Toxic Gas Sensor, PMC's and MMC's for Defense, Aerospace and Structural Applications  
Department of Mechanical and Industrial Engineering  
Indian Institute of Technology Roorkee



## Prof. Rupinder Singh

Professor & Head  
Research Interests: 3D printing, Additive Manufacturing, Fabrication of Biomaterials  
Department of Mechanical Engineering  
NITTTR, Chandigarh



## Prof. Shobha Shukla

Professor  
Metallurgical Engineering & Materials Science  
Research Interests: Water Innovation Center: Technology, Research & Education  
Indian Institute of Technology Bombay, Mumbai.



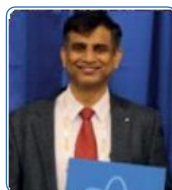
## Prof. Jose Arturo Garza-Reyes

Professor  
University of Derby, UK  
Research Interests:  
Supply Chain Improvement



**Dr. Alokesh Pramanik**

Curtin University, Australia  
 Research Interests: Bio-materials, Bioprinting,  
 Polymer materials and Recycling plastics.  
 Faculty of Science and Engineering

**Dr. M V Reddy**

Senior Researcher  
 Institute of Research Hydro-Québec, Canada  
 Research Interests: Transportation Electrification  
 and Energy Storage (CETES), Hydro-Québec,  
 J3X 1S1, Canada

**Dr. Animesh Basak**

Dualbeam Engineer  
 The University of Adelaide, Australia  
 Research Interests: Metallurgy, Materials and  
 Machining, Focused Ion Beam (FIB/SEM), and probe  
 corrected TEM.  
 Division of Research and Innovation

## REGISTRATION FEE

Conference Proceedings	Indian Participants	International Participants
	Registration and Publication Fee [INR]	Registration and Publication Fee [USD]
<b>Research Scholars</b>	8000	300
<b>Faculty/Industry/Post-Docs/Research Centre's</b>	10000	350
<b>Special Issue</b>	15000	550

## PUBLICATION PARTNER

All accepted papers will be published in Scopus indexed AIP conference proceedings (SCOPUS Indexed; SJR:0.16)



## SOME RELEVANT THEMES

- Materials Science
- Emergent Materials
- Energy
- Industry
- Computer Science & technology (Artificial Intelligence)
- Machine Learning
- Robotics and Automation
- CAD/ CAM/ CAE

## PAPER SUBMISSION

Paper Submission (mail at):  
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Singapore

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Research & Development Cell,  
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and Outcome,  
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Web-Designer, Division of Infotech,  
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