

4th ICFP

06 - 08 September, 2025
IIT Tirupati, India

Organised by



Indian Institute of Technology Dharwad



4th International Conference on **Friction-Based Processes 2025**

Brochure

www.iapmfp.org/icfp



International Association for
Processing of Materials and
Fabrication of Products

Welcome to ICFP 2025

Dear Delegate,

On behalf of organizing committee, and the host institution 'Indian Institute of Technology Tirupati (IITT)', we welcome you to ICFP 2025. This is the second time this prestigious international conference is going to be organized in India, and we aim to ensure an excellent experience to you. We are expecting to host more than 250 delegates, with more than 50 international delegates. Besides plenary talks, the conference will have 2 parallel sessions, a poster session and a session dedicated to discussing the challenging issues in friction-based processes that will keep young researchers attracted to this field for next two decades. In the spirit of previous ICFP conferences, there will be ample time for the talk, discussions following a talk during and after the session. To encourage the students and young researchers, we plan to select up to 6 posters for various awards.

Tirupati is considered one of the holiest Hindu pilgrimage sites because of Tirumala Venkateswara Temple. Other famous ancient temples in the city include Padmavathi Temple at Tiruchanur, Govindaraja Swamy Temple, and Kapileswara Temple at Kapila Theertham etc. We have planned a tour of nearby places of interest and inspiration, providing opportunities for continued discussions with the aim of initiating, nurturing, and promoting collaborations within the professional community, while also facilitating socialization. The organizing committee is also planning to arrange Sri Venkateswara Swamy Tirumala Temple Darshan for all attendees after the conference.

We are aware of the diversity of the delegates, and we have considered it while planning for food, sightseeing, accommodation, etc. We will also organize cultural programs filled with classical dances and music of India. We will also prepare an engaging plan for the accompanying person.

At both the Institute and the Department levels, we are excited about hosting you in Tirupati for the **4th ICFP 2025**. The beginning of September is a particularly pleasant time in Tirupati, with comfortable temperatures. Against the backdrop of beautiful weather, we eagerly look forward to your physical presence and participation in this significant scholarly event. We look forward to welcoming you!

Sincerely,

Organizing Committee Members ICFP 2025

Prof. Satyam Suwas, IISc Bangalore, India (Chairman, 4th ICFP Conference)

Prof. Ajay Kumar, IIT Tirupati, India (Convener, 4th ICFP Conference)

Prof. Devinder Yadav, IIT Patna, India (Convener, 4th ICFP Conference)

Prof. Anbukkarasi Rajendran, IIT Dharwad, India (Convener, 4th ICFP Conference)

Important Timelines

Submission of Abstracts	31 st March 2025	30 th June 2025	Early Bird Registration
Abstract Acceptance Intimation	15 th May 2025	31 st July 2025	Regular Registration

Highlights

Fundamentals of Friction-Based Processes	Informal Discussions and Social Engagements
Processing-Microstructure-Property Correlation	Students Awards
Plenary Talks, Invited Contributions, Poster presentations, Flash Talks for Students	Industrial Application and Challenges

Topics

Fundamentals of Friction-Based Processing

Solid - State Manufacturing Techniques

Friction-Based Metal Forming Processes

Friction Stir Welding and Allied Processes

Friction Stir Processes

Friction - Based Additive Manufacturing

Smart Manufacturing, AI/ML and Digital Twin Tools

Industrial Application and Challenges

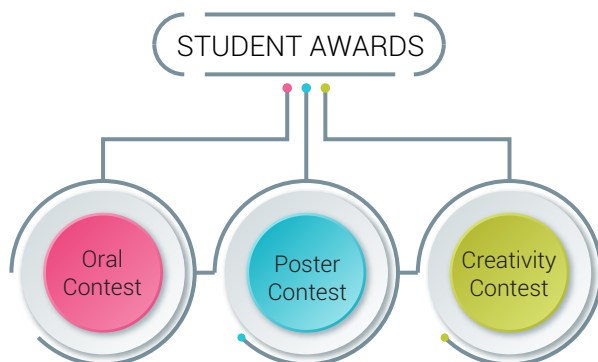
Aerospace and Defence

Automotives

Naval and Nuclear

Instructions

- The number of the contribution is restricted to one presentation for one submitting author
- Submitted abstract will be reviewed by experts before acceptance/rejection
- Submitted abstract will be distributed to the participants in the conference
- Although we, organizing committee, will try our best, your presentation type and category may be changed due to the limited capacity of the conference rooms
- Abstracts sent by email will NOT be accepted
- Abstracts submitted after the final due date will NOT be accepted



Industry Specific Focus Aligned with National Mission



Publishing Partner



Collaboration Partners



Processing-Microstructure-Property Correlation

Deformation Mechanisms

Advanced Characterization of Deformation Processes

Mechanical Behaviour at Micro and Nano Scale

Fracture and Fatigue

High Temperature Deformation

Wear and Surface Engineering

Mechanistic Foundations for Multiscale Modelling

Call for Abstracts

Prospective contributors are requested to submit abstract of their paper online through the Conference website about 250 words latest by 31st March 2025. On acceptance, contributors of the selected papers would be required to submit manuscript of the extended abstract (up to 4 pages) latest by 30th April 2025. The guidelines for authors and the template for the extended abstract is available for downloading from the website. ICFP - 2025 will endeavor to give preference to papers which deal with novel advancements, applications and developments in the aforesaid areas. All papers submitted for presentation in the conference must be original and should not have been presented, published, or under consideration for publication / presentation. All papers will be subjected to review by a Technical Committee.

Publication

International Journal of Material Forming
Springer Publication: SCI , Scopus

Materials Characterization
Elsevier Publications: SCI , Scopus

Journal of Materials Engineering and Performance
Springer & ASM Publication: SCI , Scopus

Journal of Manufacturing Processes
Elsevier Publications: SCI , Scopus

Welding International
Taylor and Francis Publication: Scopus

Springer Proceedings
Scopus

Eminent Speakers (Alphabetical Order)



Prof. Achilles Vairis
University of West Attica, Greece
Editor In Chief in "Welding International"



Prof. Adrian Gerlich
University in Waterloo
Canada



Prof. Bharat Gwalani
North Carolina State
University, USA



Dr. Kumar Kandasamy
Enabled Engineering, Virginia
United States



Prof. Nilesh Kumar
The University of Alabama, USA



Prof. Qingyu Shi
Tsinghua University, Beijing, China



Prof. Rajiv Mishra
Univ. of North Texas, USA



Prof. Satish V. Kailas
IISc Bangalore, India



Prof. Sudarsanam S Babu
The Univ. of Tennessee, USA

Committees

Conference Patron



Dr. K. N. Satyanarayana
 Director IIT Tirupati, India

Conference Chairman



Prof. Satyam Suwas
 IISc Bangalore, India

Conference Conveners



Prof. Ajay Kumar
 IIT Tirupati, India



Prof. Devinder Yadav
 IIT Patna, India



Prof. Anbukkarasi Rajendran
 IIT Dharwad, India

International Advisory Committee

Prof. Tony Schmitz	University of Tennessee, USA
Prof. Qingyu Shi	Tsinghua University Lee Shau Kee, China
Prof. Adrian Gerlich	University of Waterloo, Canada
Prof. Rajiv Mishra	University of North Texas, USA
Prof. Nilesh Kumar	The University of Alabama, India
Prof. Raj Shabadi	University of Lille, France
Prof. T.S. Srivatsan	Prof. (Emeritus) - The Univ. of Akron, USA & President IA-PMFP
Dr. Piyush Upadhyay	Pacific Northwest National Laboratory
Dr. Kumar Kandasamy	Enabled Engineering
Prof. Yuri Hovanski	Brigham Young University, USA

National Advisory Committee

Dr. A Gourav Rao	NMRL, DRDO, India
Dr. G Madhusudhan Reddy	NIT Warangal
Dr. Kaushal Kumar Jha	BARC, India
Dr. Rajeev Kapoor	BARC, India
Dr. T Ram Prabhu	DRDO, India

Local Organising Committee

Prof. Ajay Kumar	IIT Tirupati, India
Prof. Devinder Yadav	IIT Patna, India
Prof. Anbukkarasi Rajendran	IIT Dharwad, India
Prof. Nitish Raja	IIT Patna, India
Prof. Mohan M. Garlapati	IIT Patna, India

Registration

Registration Fee

		Upto 30 June'25 (Early Bird) (Must for Presenters)	Upto 31 July'25 (Regular)	Late Registration
Indian (INR)	Research Scholars / Students	₹ 8,000	₹ 9,000	₹ 10,000
	Delegates (Academic - Faculty, PDF & Public Sector R&D)	₹ 12,000	₹ 14,000	₹ 16,000
	Delegates (Non Academic - Industry)	₹ 15,000	₹ 17,500	₹ 20,000
	Spouse/Accompanying	₹ 6,000	₹ 7,500	₹ 9,000
Foreign (USD)	Research Scholars / Students	\$ 400	\$ 500	\$ 600
	Delegates (Academic - Faculty, PDF & Public Sector R&D)	\$ 500	\$ 600	\$ 700
	Delegates (Non Academic - Industry)	\$ 700	\$ 800	\$ 900
	Spouse/Accompanying	\$ 300	\$ 400	\$ 500

10% Discount for IA-PMFP Members. Apply Discount Coupon Code - IA-PMFP10

[Become Member](#)
 Click here 

N:B:

Students are required to attach student declaration form signed by the Department Head during online registration.

A registration confirmation letter will be sent to you via e-mail on receipt of the payment.

Registration fees excludes 18% GST.

[Student Declaration Form](#)
 Click here 

[Register Now!](#)
 Click here 

Sponsorship and Exhibition

For sponsorship opportunity, please contact secretariat@iapmfp.org

Platinum Sponsor	Diamond Sponsor	Gold Sponsor	
INR 10 lakhs USD 15,000	INR 5 lakhs USD 7,500	INR 3 lakhs USD 4,000	
Silver Sponsor	Lunch Sponsor	Dinner Sponsor	Associate
INR 2 lakhs USD 3,000	INR 3 lakhs USD 4,000	INR 5 lakhs USD 7,500	INR 1.5 lakh USD 2,500
Cultural Program	High Tea Sponsor		
INR 1.5 lakh USD 2,500	INR 1 lakh USD 1,500		

[For Sponsorship details](#)
 Click here 

**Advertisement in Souvenir
(A4 Colour)**

- Back Cover Page - INR 1 lakh
- Front Cover Page Inside - INR 60 thousand
- Back Inner Page - INR 60 thousand
- Full Page Inside - INR 50 thousand
- Half Page Inside - INR 30 thousand

Please note: GST @ 18% extra on total amount

Few important sightseeing options in and around city

Sri Venkateswara Temple, Tirumala: Sri Venkateswara Temple is the most revered and celebrated temple of Tirupati having tourists and pilgrims flooding in all year long. This is one of the holiest and the wealthiest temples in the world and millions of devotee's flock here to pay their reverence.



Sri Padmavathi Ammavari Temple: At a little distance from the main city area, one finds the Sri Padmavathi Ammavari Temple dedicated to Goddess Padmavathi. One of the many sacred structures of Tirupati, this one is home to many legends and stories about the Goddess.



Sri Govindarajaswami Temple: Sri Govindarajaswami Temple is a 12th century Hindu Vaishnavite shrine built by Saint Ramanujacharya and is one of the biggest temple complexes in the district. The presiding deity is Lord Vishnu, also called Govindarajaswami. The beautiful traditional Dravidian architecture and its rich culture attract tourists in quite a large number every year.



Sri Kalahasti Temple: It is situated along the banks of the River Swarnamukhi, an important river in South India and a tributary of the River Pennar. The three ancient epics, the Skanda Purana, Shiva Purana, and Linga Purana, mention the historic Shiva temple at Srikalahasti.



Kanipakam Temple: Kanipakam is home to a popular Hindu temple of Lord Ganesha. It was constructed in the early 11th century by the Chola Emperor Kulottunga and was expanded further in 1336. It is situated at 75 kms from Tirupati city on Chittoor-Irala road.



Kapila Theertham: It is located 4 Kms from Tirupati. It is a fascinating waterfall at the base of the Seshadri Hills. It is the main temple of Lord Shiva in Tirupati in which the Shiva Lingam is made of metal.



Gudimallam Temple: It is an ancient linga in the Parasurameswara Swamy Temple of Gudimallam, a small village near Tirupati city in the Yerpedu mandal of the Tirupati district of Andhra Pradesh, India. It is situated about 13 kms from Tirupati city.



Thondamanadu Temple: One of the famous temple of Sri Venkateswara svayambhu is Thondamanaadu Sridevi Bhudevi sametha Sri Venkateswara swamy temple. It is a small village 28kms from Tirupati.



Appalayagunta Temple: The Prasanna Venkateswara Swamy temple is located at a distance of about 16kms, from Tirupati. This temple has its uniqueness with the presence of the presiding deity of Lord Sri Prasanna Venkateswara Swamy in 'Abhaya Hasta Posture', which is considered the ultimate blessing posture.



How To Reach

- **By Air :** Nearest airports are Tirupati Airport (14 km from city) and Chennai Airport (145 kms).
- **By Rail :** Connected via Tirupati Railway Station (TPTY) and Renigunta Junction (RU).
- **By Road :** Buses from major cities: Chennai (134 km), Vijayawada (412 km), Visakhapatnam (755 km), Bangalore (248 km), Hyderabad (556 km).

Conference Venue

Indian Institute of Technology Tirupati
Yerpedu – Venkatagiri Road, Yerpedu Post, Tirupati District, Andhra Pradesh, India – 517619



Contact us

Conference Organizer



IIT Tirupati, India

icfp@iapmfp.org | 91 11 46066077

www.iapmfp.org/icfp

Conference Manager



Connexions Orbis Pvt. Ltd

243, Somdutt Chamber II, Bhikaji Cama Place
New Delhi - 110066

icfp@iapmfp.org | 99294 49193