



06 - 08 September, 2025
Tirupati, India

Technical Partners



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,

The International Association for Processing of Materials and Fabrication of Products (IA-PMFP) is organizing the 4th International Conference on Friction-Based Processes (ICFP 2025) at Tirupati, India, from 6th to 8th September 2025. Indian Institute of Technology Tirupati, Indian Institute of Technology Patna, Indian Institute of Technology Dharwad and Indian Institute of Science (IISc) Bangalore India are the Technical Partners. We welcome you to 4th 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 May 2025 (Extended)	15 th July 2025	Early Bird Registration
Abstract Acceptance Intimation	10 th June 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

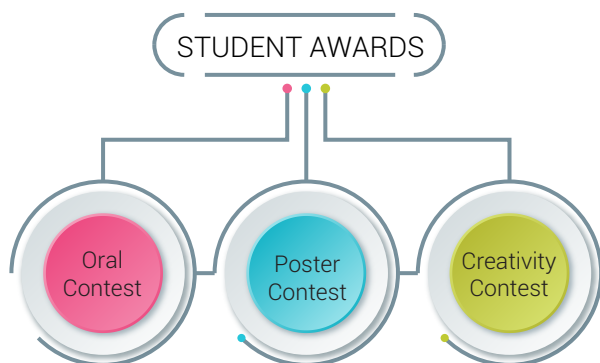
- Solid - State Manufacturing Techniques
- Friction-Based Metal Forming Processes
- Friction Stir Welding and Allied Processes
- Friction Stir Processes
- Friction - Based Additive Manufacturing
- Smart Manufacturing, AI/ML and Digital Twin Tools

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



Processing-Microstructure-Property Correlation

- Deformation Mechanisms
- Advanced Characterization of Deformation Processes
- Mechanical Behaviour at Micro and Nano Scale
- Fracture and Fatigue
- High Temperature Deformation
- Surface Engineering
- Tribology
- 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.

Over 200 abstracts received from researchers and experts.

Publication

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

Industry Specific Focus Aligned with National Mission



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Eminent Speakers (Alphabetical Order)



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



Prof. Abhik N. Choudhury
IISc Bangalore
India



Dr. A. Manjunath
Scientist, GTRE, DRDO
India



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Institute of Technology
Management (ITM) DRDO
India



Prof. Amit Arora
IIT Gandhinagar, India



Prof. Anirban Bhattacharya
IIT Patna, India



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Prof. Buchibabu Vicharapu
IIT Roorkee
India



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Kumar**
IIT Roorkee, India



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IISc Bangalore
India



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Phanikumar**
IIT Madras, India



Dr. G. Madhusudhan Reddy
Bramohas Aerospace Private
Limited
NIT Warangal, Telangana



Prof. Hidetoshi Fujii
Osaka University Japan



Prof. Indradev Samajdar
IIT Bombay
India



Prof. Ivan Galvão
University of Lisbon
Portugal



Dr. Jayant Kumar
Japan-GCC
Growth CEO



Prof. Kali Prasad
IIT Palakkad
India



Prof. K. G. Pradeep
IIT Madras, India



Dr. Kaushal Jha
Scientist, BARC Mumbai
India



Prof. K. Narasimhan
IIT Bombay, India



Prof. K.S. Suresh
IIT Roorkee, India



Dr. Kumar Kandasamy
Enabled Engineering,
Virginia United States



Prof. Murshid Imam
IIT Patna, India



Prof. M. Karthik Gangaraju
IIT(BHU), India



Prof. Nilesh Kumar
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Bembalge**
IIT Dharwad, India



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University of Nevada
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India



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Beijing, China



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IIT Bhilai, India



Prof. Rajiv Mishra
Univ. of North Texas, USA



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IIT Dharwad, India



Prof. Ranjit Bauri
IIT Chennai, India



Shri Ravi Kumar Varma
Scientist, SAC, ISRO, India



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Metz, France



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UNT, USA



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IISc Bangalore, India



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**Prof. Surendra Kumar
Makineni**
IISc Bangalore, India



**Prof. Sushanta Kumar
Panigrahi**
IIT Chennai, India



Prof. V. Balasubramanian
Annamalai University
Tamil Nadu, India



Dr. Vikas Saxena
Chairman (AR&DB) DRDO,
Ministry of Defence, India and
Chairman- Bureau of
Indian Standards (BIS-MTD3)



Prof. Vikranth Racherla
IIT Kharagpur, India



Prof. Vivek Patel
University West
Sweden



**Prof. Mohd Zaheer
Khan Yusufzai**
IIT BHU Varanasi, India

More Eminent Speakers are being added..

Committees

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Prof. Degala V. Kiran	Dept. Mech. Engg., IIT Tirupati
Prof. Ajay Kumar	Dept. Mech. Engg., IIT Tirupati
Prof. Govind N Sahu	Dept. Mech. Engg., IIT Tirupati

Registration

Registration Fee

		Upto 15 July'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

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N:B:

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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](#)
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- 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 Venkateshwara 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 Yeperdu 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

S R Convention

Old Tiruchanoor Road, near Ankalamma Temple,
Rayalaseema Region, Ashok Nagar, Tirupati, Andhra Pradesh-517501



How to reach S R Convention

Distance from various landmarks

03 km from Tirupati City

10 km from Renigunta Railway Junction

17 km from the Tirupati International Airport

The Venue is very well connected to the other parts of the country by road, rail, and air. [Click Here](#) for the route map

Contact us

Conference Organizer



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 | +91 97821 86880