



IIM
Metallurgy
Materials Engineering

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IIM METAL NEWS

A FORUM OF ENGINEERS

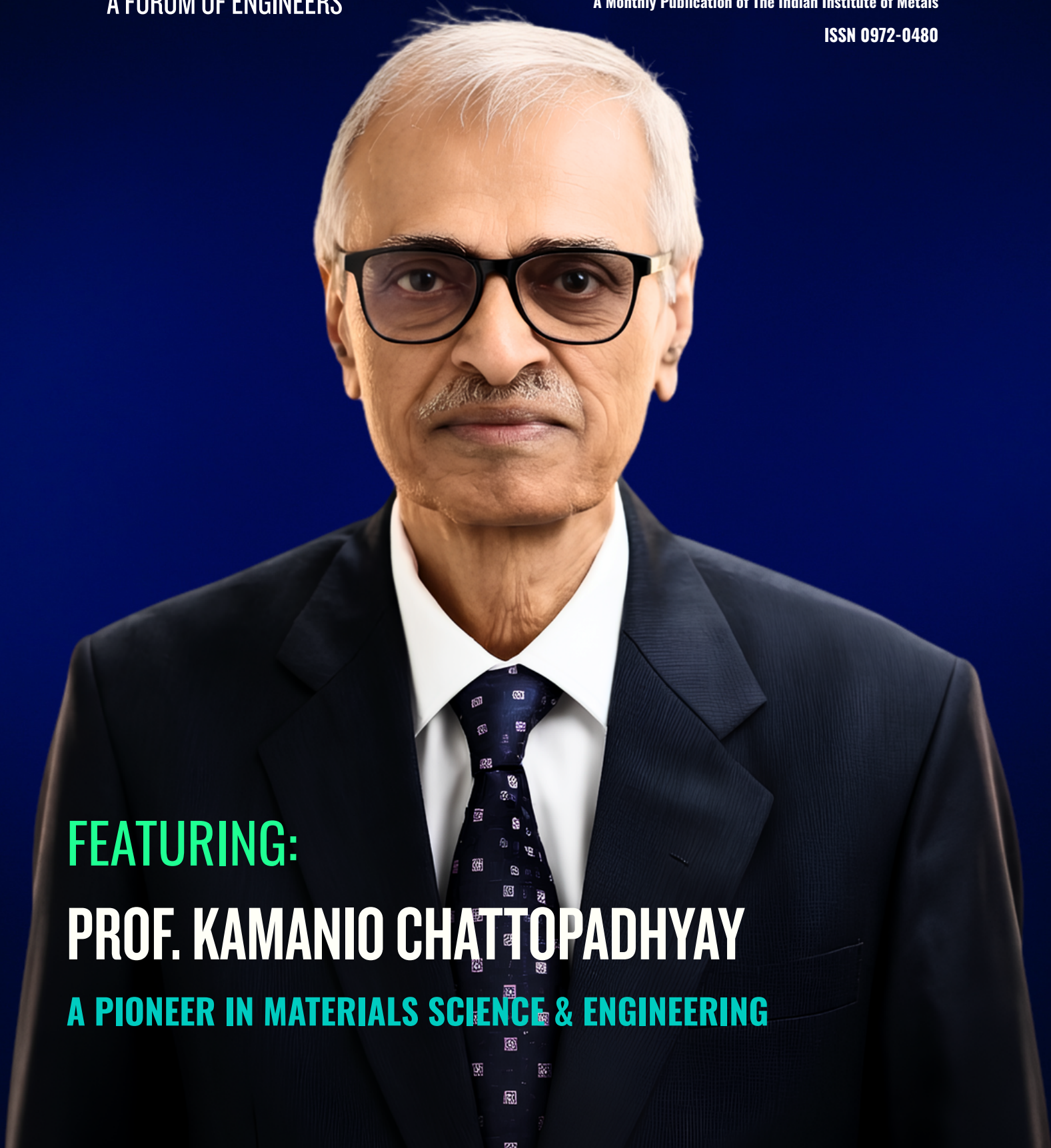
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FEATURING:

PROF. KAMANIO CHATTOPADHYAY

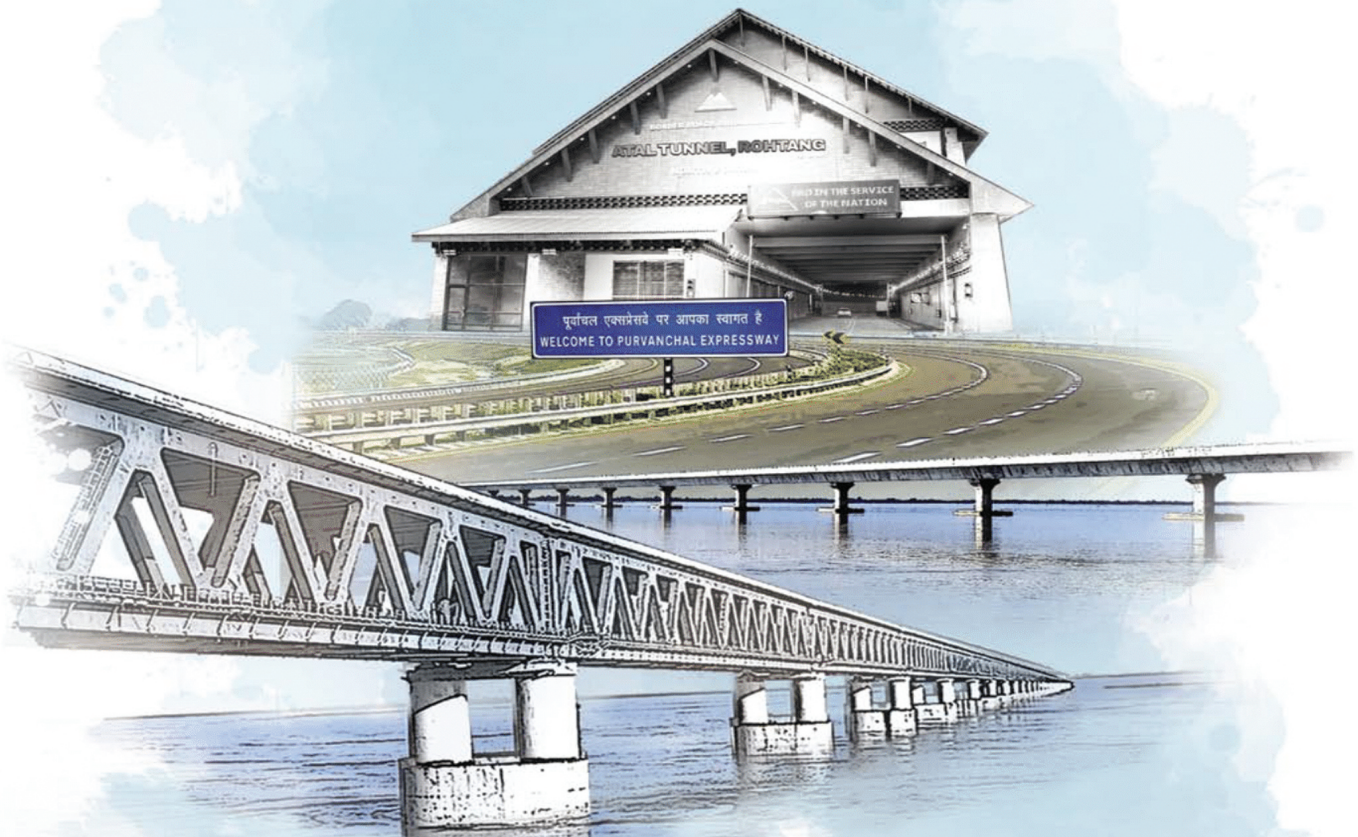
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IIM METAL NEWS

May 2026 | Vol 29 | No 05

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Chief Editor

Dr Sambandam Manjini

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EDITORIAL NOTE

This Special Issue of IIM Metal News is dedicated to Prof. Kamanio Chattopadhyay, Honorary Professor at IISc Bengaluru, currently National Science Chair, distinguished materials scientist, and Former President of The Indian Institute of Metals (2013–14).

Prof. Chattopadhyay's pioneering contributions to materials science and engineering, together with his leadership of IIM, have significantly influenced the growth of the metallurgical profession and advanced the Institute's objectives.

This issue celebrates his remarkable academic journey, scientific accomplishments, and enduring contributions to the materials and metallurgical community.

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Kamanio Chattopadhyay: A Stalwart in Metallurgy & Materials Science

Prof. Kamanio Chattopadhyay is a globally respected figure in metallurgy, known for his pioneering contributions to quasicrystals, nanomaterials, and metastable materials. With over five decades of research and more than 500 publications, his work has significantly advanced the understanding of structure–property relationships in materials. A recipient of the Shanti Swarup Bhatnagar Prize, he has also contributed to the discovery and development of advanced high temperature alloys and nanoscale materials. Through leadership roles at Indian Institute of Science and active engagement with Indian Institute of Metals, he has effectively bridged academia and industry, shaping both research and practice.

Ideas that Shaped Modern Metallurgy

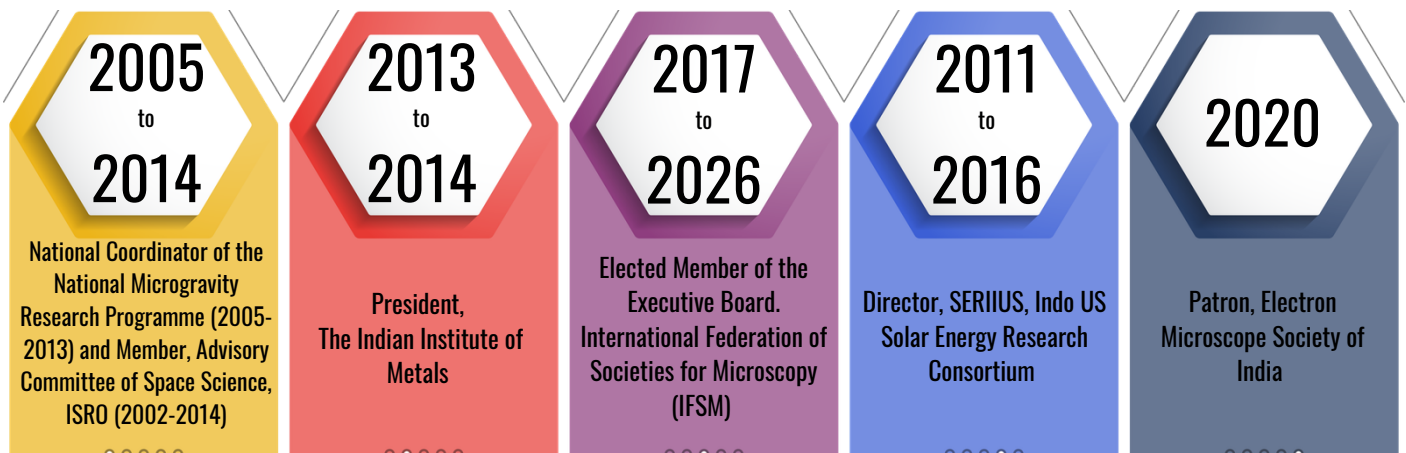
The work of Prof. Kamanio Chattopadhyay has significantly influenced modern metallurgy by linking fundamental science with engineering application. His research on quasicrystals, nanomaterials, and metastable phases expanded the understanding of how microstructure governs material properties.

He pioneered techniques such as mechanical alloying and cryomilling, enabling the development of high-performance nanoscale materials.

His contributions to advanced high-temperature alloys continue to support demanding sectors like energy and aerospace.

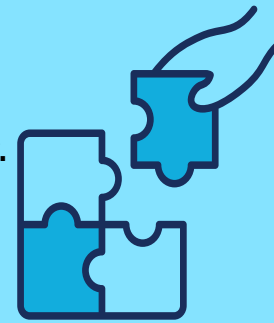
Equally impactful has been his role in promoting advanced microscopy and microanalysis, strengthening materials characterization. Today, his work remains highly relevant in areas such as advance structural materials and Materials discovery, and next-generation materials design.

Professional Leadership



Key Contributions at a Glance

- Pioneering research in quasicrystals and metastable materials.
- Basic understanding of behaviour of nano alloy particles.
- Advancements in nanomaterials through mechanical alloying and cryomilling.
- Discovering cobalt based light weight superalloy with $\gamma-\gamma'$ microstructure
- Contributions to design of advanced high-temperature Aluminium Alloys
- Strengthening of materials characterization through advanced microscopy.
- Research on materials for energy harvesting and thermoelectric materials.



The Mentor & the Man

Prof. Kamanio Chattopadhyay is remembered as much for his mentorship as for his scientific excellence. Known for his clarity of thought and emphasis on fundamentals, he encouraged students to question deeply and think independently.

His teaching combined rigor with simplicity, often breaking down complex ideas into intuitive insights. Beyond academics, he supported students through challenges, instilling confidence and discipline.

At Indian Institute of Science, he fostered a culture of curiosity, collaboration, and intellectual honesty, shaping generations of metallurgists who continue to carry forward his values.

Insights from Peers & Industry

The legacy of Prof. Kamanio Chattopadhyay is reflected in the words of Prof. S. Ranganathan, Retired Professor, Indian Institute of Science, Bangalore and Dr. G. K. Dey, Former Distinguished Scientist and Ex-Director of the Materials Group at the Bhabha Atomic Research Centre (BARC), highlighting his scientific depth, pioneering contributions, and enduring influence as a mentor and leader in metallurgy.

“A bright and creative mind with a truly global scientific outlook.” - S. Ranganathan

“His deep knowledge of Physical Metallurgy left an indelible mark on his students.” - G.K. Dey

“As President of the Indian Institute of Metals, he ensured that metallurgical research remained both high in quality and relevant to alloy development.” - G.K. Dey

FIVE DECADES OF MATERIALS RESEARCH

~Five Decades of Materials Research
Prof. Kamaio Chattopadhyay

2015-26
Thermoelectric Materials

1975
Aluminium based Metallic Glass

1985
Decagonal Quasi crystal

2012-2025
Cobalt based Superalloys

1987
Ordered Quasi crystal

1990
Ordering in Silicon Steel

2010-2025
High Strength Aluminium Alloys

2009-2026
High strength Intermetallic eutectics

1984-2008
Nano particles

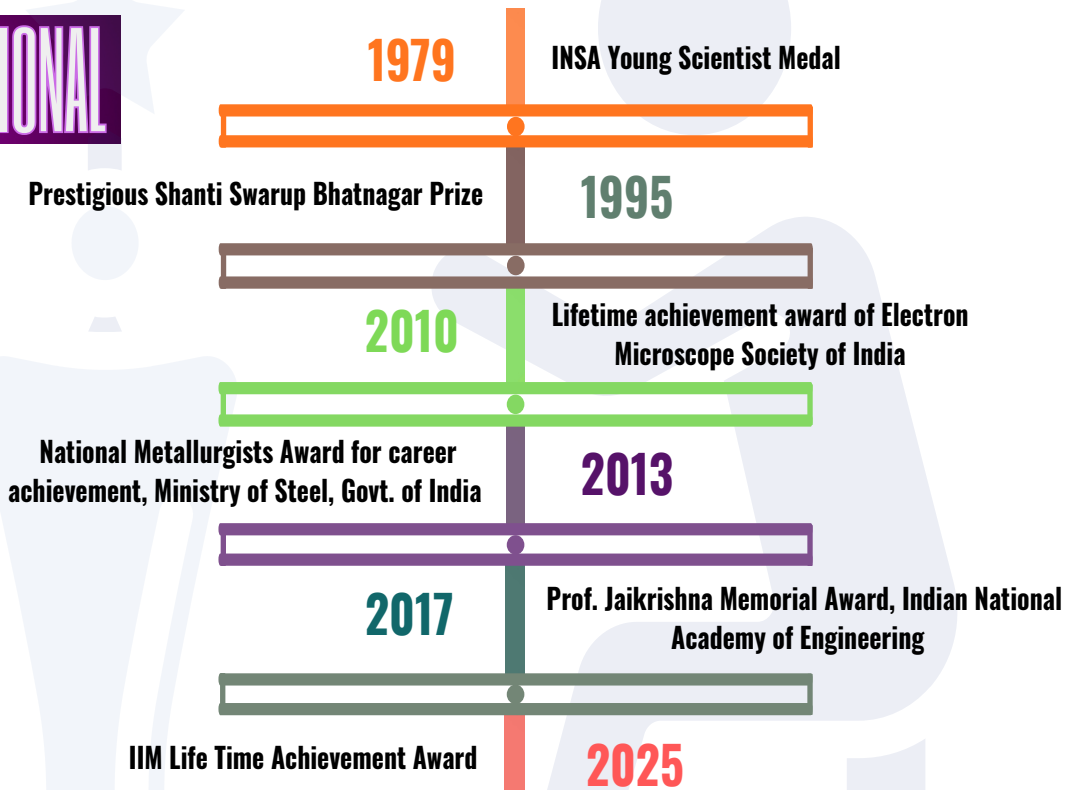
2008-2015
Cryomilling and Nanoparticles

1996-2011
Dissimilar, welding and cladding

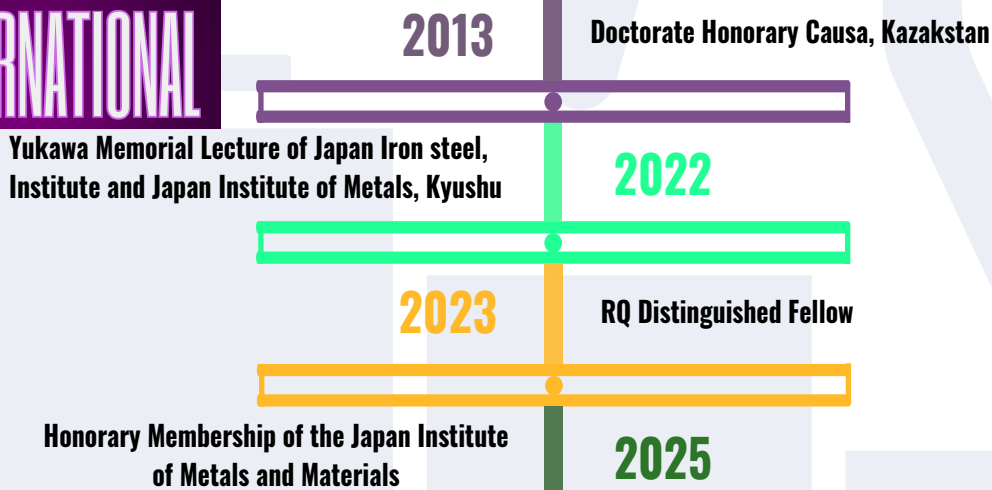


AWARD RECOGNITION

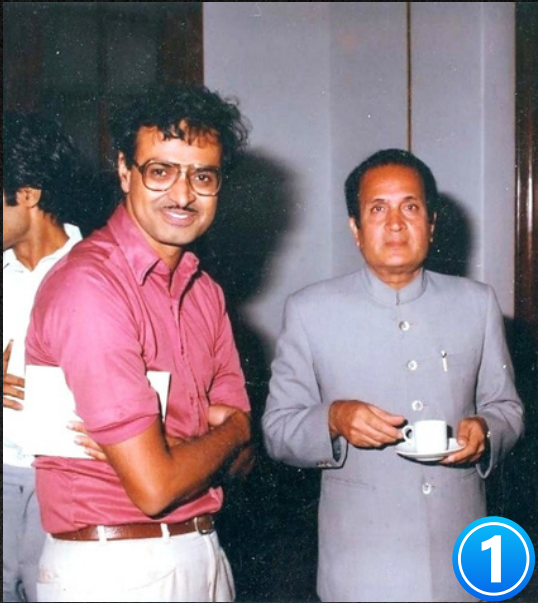
NATIONAL



INTERNATIONAL



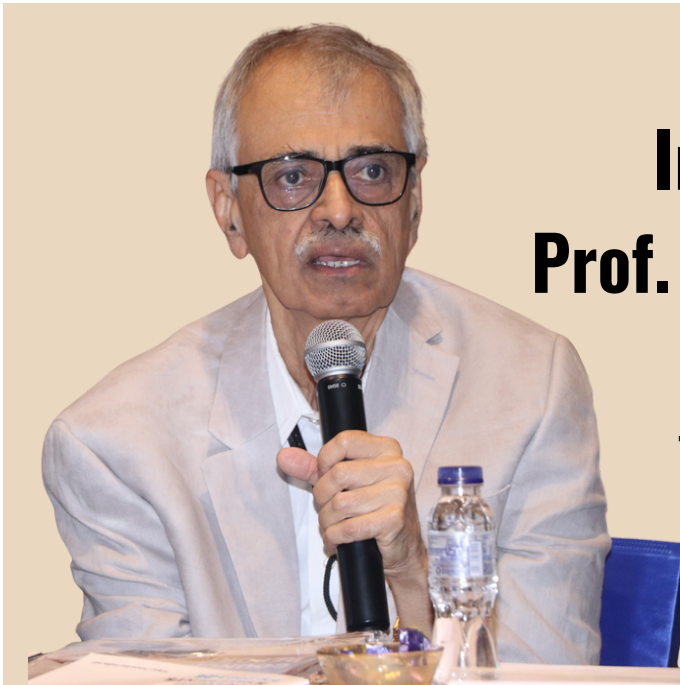
Reflections Through Photographs







- 1 WITH PROF. T.R. ANANTHARAMAN
- 2 WITH PROF. P. RAMACHANDRA RAO DURING CONVOCATION
- 3 WITH POST DOCTORAL MENTOR HUBERT I. AARONSON
- 4 WITH PROF. SHRIKANT LELE
- 5 THE NATIONAL METALLURGIST DAY AWARD FOR THE BEST METALLURGIST (27TH NMD)
- 6 SHANTHI SWARUP BHATNAGAR AWARD FROM CSIR
- 7 DOCTORATE HONORARY CAUSA, KAZAKSTAN
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- 12 KAMANIO CHATTOPADHYAY with his long time collaborators and friends
L to R: Prof. D H Kim, Prof. A P Tsai, Prof. W T Kim, Prof. B Cantor, Prof. K Aoki,
Mrs. Sukanya Cahttopadhyay, K.Chattopadhyay, Prof S Ranganathan, Dr. S Banerjee



In Conversation with Prof. Kamanio Chattopadhyay

-A pioneer whose contributions have shaped generations of materials scientists and engineers.

Professional Journey & Inspiration

1. Could you kindly share your journey into metallurgy and materials science? What inspired your interest in this field?

A: I was always interested in earth science in my formative years in school and even got admission in Presidency College in Kolkata. But when the engineering admission results came, I decided to opt for Metallurgy as it was closest to my interest. Prof. S. Dasgupta did inspire me at Regional Engineering College (currently NIT), Durgapur. But real inspiration to do some thing in academic world came when I joined BHU. The inspirational leadership of Professor T.R. Anantharaman and the iconic teachers and thinkers (to name a few, Professors S. Ranganathan, P. Ramachandra Rao, P. Rama Rao and S. Lele) shaped me. I also cannot forget the influence of Prof. H.I. Aaronson, my post doctorate supervisor who imbibed the spirit of excellence.

Research & Technical Contributions

2. You have made significant contributions to advanced materials research. Could you highlight some of your key areas of work and their industrial relevance?

A: Unlike general trend, I always tried to discover as well as innovate new materials using uncharted pathways. I believe that if one follows an uncharted path, the success can only be judged by global impact. This is what I tried to

inculcate to my students. Over the years, my research has focused on understanding and engineering materials far from equilibrium — particularly quasicrystals, nano-materials, and metastable materials.

The discovery of decagonal quasicrystal and ordering in icosahedral quasicrystal are prime example of this approach. These materials and their structures were not known to mankind before we discovered. Any true new discoveries are always pregnant with the possibilities that these might offer properties that conventional materials simply cannot achieve. One major strand of these possibilities can be seen in the work centered on our discovery of a new class of cobalt based high- temperature lightweight superalloys. These alloys with controlled density, exceptional phase stability and stable microstructure have potential for applications in aerospace, power generation, and energy conversion.

I have also worked extensively on mechanically milled nanoscale magnetic materials and cryomilled free nanoparticles. These studies were not only scientifically challenging (like ballistic diffusion disrupting ordering in spinel) but also industrially relevant since we succeeded in synthesising large amount of free nanoparticles relevant for magnetic devices, sensors, functional coatings as well as for technologies remedying e-waste, where nanoscale control

directly translates into performance gains.

More recently, my focus has shifted toward developing novel high-temperature, high-strength structural alloys based on cobalt, aluminium, and copper systems. We have also integrated thermoelectric concepts with ordered intermetallics to create materials that combine mechanical robustness with functional performance. Several of these developments have already led to patents and industrial reports, reflecting their potential for real-world applications. Overall, I see my work as exploring and discovering materials (often serendipitous) based on fundamental knowledge with technological possibilities that can directly impact advanced manufacturing and high-performance engineering.

3. How do you see emerging materials technologies influencing the future of the metal industry?

A: We are in an era where innovations have accelerated and that will impact metal industry. We are now exploring large materials space thanks to the concept of multicomponent complex alloys and manufacturing technologies increasingly exploiting artificial intelligence. I guess next two decades will revolutionise the metal landscape, both at academia and industries. At this point it is difficult to crystal gaze the future but we can stay prepared with an open mind.

Industry–Academia & Institutional Perspective

4. During your tenure as President of The Indian Institute of Metals, what were the key priorities and initiatives you focused on?

A: Due to my international exposures, I have watched how other major societies were transforming and how they were positioning themselves. When I analysed along with immediate past president Dr. Nehrukar the IIM at that point, we realised that both the financial structure and how we run IIM need to change at all levels. We took professional help thanks to the support of TATA steel and prepared a report for the council for discussion. I think that is the beginning of the changes that we see today. The present financial situation, the better integration of headquarter and chapters and the outreach that increas-



ingly getting more digital and more widespread is a consequence of steps that we visioned. Subsequent presidents need to be praised for taking it to higher height despite COVID era disruption.

5. How do you assess the evolving role of the Indian Institute of Metals in supporting the metal and materials community in India?

A: I believe we are in right paths. We are now getting significant support from major industries. IIM should be the umbrella organisation for materials engineering profession including minerals. We do have several smaller societies whose aims are similar. If we can bring them together (not necessarily merger but a cooperative relation), we will be even better to provide leadership and support to the community.

6. What steps would you suggest for further strengthening industry–academia collaboration through the Indian Institute of Metals?

A: More meetings that develop personal contacts. After all collaboration requires personal confidence on each other.



7. How can IIM Metal News contribute more effectively to the dissemination of knowledge and industry best practices?

A: The current versions of IIM Metal news is doing outstanding job. It is evolving and poised for making impact. Make it interesting and only then people will read it and get benefitted. Bring a section on History of Metallurgy and Materials.

Innovation & Sustainability

8. Sustainability is becoming increasingly important in metallurgy. What innovations are needed to make the industry more environmentally responsible?

A: Sustainability is the need of our future existence. However, main driving force must be legal policy formulation and action that forced all the parties to think and innovate. This responsibility rarely comes voluntarily unless one can show profitability or there are no other choices.

Education & Skill Development

9. How should metallurgical education evolve to meet the changing needs of industry?

A: Look, I have been asked this question time and again for last 40 years. One must accept the fact that education is never designed to meet the need of industry in a direct sense. Our job is to attract and sustain the interest of the

bright students coming to our portal. A good and well-trained mind will always adopt to the need of the industry they ultimately land. We only attempt to make the profession in general more attractive and our education synchronise with current trend and future knowledge.

Leadership, Vision & Reflections

10. As a leader in the field, how have you approached mentoring young researchers and professionals?

A: (A short reply). Try to make them excited with what we do.

11. What is your vision for the future of India's metal and materials sector?

A: We need to be world leader. Frankly, we are not there yet. But we can and we must.

12. Finally, what advice would you give to students and young professionals of The Indian Institute of Metals regarding the future of the metallurgical and materials sector?

A: It is a highly interesting and satisfying profession whose need will not diminish with time. Let us stay focused and it will be a fulfilling experience for all ages. For academician one must remember that we will be judged by the current work, not by what we have done in the past.

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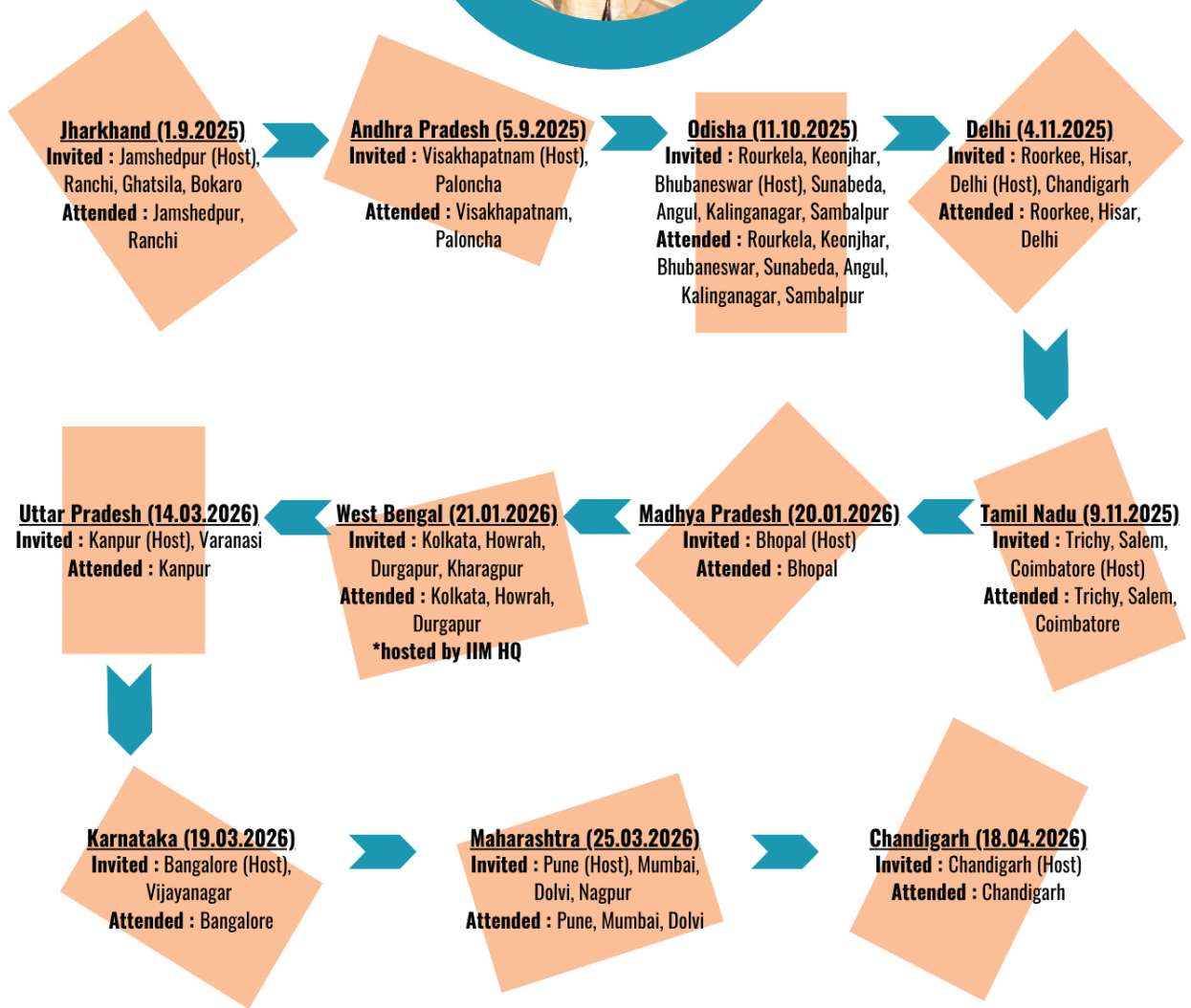
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NATIONWIDE CHAPTER VISITS FOSTERING INTERACTION AND COLLABORATION

During Prof. B.S. Murty's Presidential Tenure



EXPANSION OF IIM STUDENT AFFILIATE CHAPTERS DURING PROF. B.S. MURTY'S PRESIDENTIAL TENURE

Sl. No	Main Chapter	*Student Affiliate Chapter
1.	Bangalore	IISc, Bangalore
2.		Jain University
3.	Baroda	M S University of Baroda
4.	Bhubaneswar	IIT Bhubaneswar
5.		KIIT
6.		IISER Berhampur
7.	Chandigarh	IIT Ropar
8.		NIT Hamirpur
9.	Delhi	IIT Delhi

*Student Affiliate Chapters formed under Main Chapters

Continue to Next Page

Sl. No	Main Chapter	*Student Affiliate Chapter
10.	Hyderabad	School of Engineering Sciences and Technology, University of Hyderabad
11.		Yogi Vemana University
12.		IISER Tirupati
13.		RGUKT – RK Valley
14.		IIT Tirupati
15.		Sri Venkateswara University College of Engg.
16.	Jamshedpur	NIT Jamshedpur
17.	Kanpur	Chhatrapati Shahu Ji Maharaj University, Kanpur
18.	Kharagpur	IIT Kharagpur
19.	Kolkata	Brainware University
20.	Nagpur	Nagpur Institute of Technology
21.	Pune	DIAT
22.	Roorkee	IIT Roorkee

*Student Affiliate Chapters formed under Main Chapters

CO-OPTION OF VICE PRESIDENT & CHAIRMAN, FERROUS DIVISION COUNCIL YEAR 2025-26



In the 376th Council Meeting held on 18th May 2026 at Tirupati, the Council co-opted **Dr. Ashok Kumar Panda, CMD, SAIL**, as Vice President and Chairman, Ferrous Division, IIM, succeeding Shri Amarendu Prakash consequent upon his relinquishment of services.

A technocrat-cum-finance expert, Dr. Panda holds a B.E. in Electrical Engineering, PGDM, and Ph.D. in Business Management. With over three decades at SAIL, he has made distinguished contributions in strategic planning, production, projects, marketing, procurement, finance, and taxation.

With his blend of technical depth, financial acumen, and transformative leadership, Dr. Panda is poised to strengthen IIM's industry-academia interface, advance the Ferrous Division's agenda, instill greater financial discipline, and foster strategic collaborations for the steel sector.

The Council placed on record its appreciation for Shri Amarendu Prakash for his exemplary contributions and extended a warm welcome to Dr. Ashok Kumar Panda

CHAPTER ACTIVITIES

VARANASI CHAPTER

Metallurgical Researches 2026

A one-day annual research seminar for research scholars, titled Metallurgical Researches 2026, was organized by the IIM Varanasi Chapter in association with the Department of Metallurgical Engineering, IIT (BHU), the Metallurgy Society, and the NPGMM Trust on 11 April 2026. The event marked the revival of a long-standing academic tradition after a gap of nearly three decades. The programme provided a platform for research scholars to present their work and engage in technical discussions with faculty members and experts.

Prof. Vakil Singh, former Professor of the Department, graced the occasion as Chief Guest and actively participated in the proceedings, offering valuable insights and constructive feedback to the presenters. The programme was also graced by the presence of Prof. R. K. Mandal, former Professor; Prof. N. K. Mukhopadhyay, Dean of Faculty Affairs; and Prof. N. C. Santhi Srinivas, Head of the Department.

The successful conduct of the seminar was made possible through the efforts of the organizing team led by Dr. Sudipta Patra, Convenor, and Dr. Sumanth Nani Enugala, Co-Convenor, with support from faculty members and student volunteers.

Glimpse of the Seminar "Metallurgical Researches 2026"



SEMINARS & CONFERENCES

“DRYBEN 2026”

The International Conference on Dry Beneficiation – DRYBEN 2026 was successfully held at Beldih Club, Jamshedpur, during March 23–24, 2026, bringing together a distinguished gathering of industry professionals, academicians, researchers, and technology providers from India and abroad. The conference was organized by Tata Steel in collaboration with The Indian Institute of Metals, Jamshedpur Chapter, with the objective of promoting knowledge exchange and technological advancement in the field of dry beneficiation for mineral and coal processing.

The inaugural session on March 23 was graced by eminent dignitaries including Mr. Sandeep Kumar, Vice President – Raw Materials, Tata Steel Ltd.; Mr. Dipankar Dasgupta, EIC IBMD, Tata Steel Ltd.; Mr. Atanu Ranjan Pal, Chief Technology Officer – Process, Tata Steel Ltd. and Chairman, IIM Jamshedpur Chapter; and Mr. Veerendra Singh, Conference Convenor, DRYBEN 2026.

DRYBEN 2026 witnessed enthusiastic participation from over 240 delegates representing diverse

sectors of the mining, mineral processing, and metallurgical industries. The conference served as an important platform for deliberations on innovative, sustainable, and energy-efficient dry beneficiation technologies.

The first day featured an engaging plenary session followed by two technical sessions focusing on sorting technologies, comminution, and dry gravity concentration. The day concluded with a thought-provoking panel discussion on the future prospects and industrial adoption of dry beneficiation technologies.

The second day comprised four dedicated technical sessions covering advancements in dry gravity separation, electrostatic and magnetic separation technologies, along with discussions on auxiliary systems such as dust extraction, pneumatic conveying, and drying solutions. The conference facilitated meaningful technical interactions and highlighted the growing importance of sustainable beneficiation practices in the evolving mineral processing landscape.





IIM

Metallurgy
Materials Engineering

(Course Number IIM-26-113)

Online Mode 17th & 18th June 2026,
09:30 – 13:30 Each Day

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- Explore the latest applications of Artificial Intelligence (AI) in process optimization, quality control, and predictive analysis.

Course Module :

1. Importance and Scope
2. Concept of Steel Cleanliness
3. Inclusion Control
4. Nitrogen Control in AOD
5. Role of Slag
6. Machine Learning Applications in Steelmaking
7. Refractory for Clean Steel
8. Robotic Solution for Application of Refractories in Hazardous Environments in Steel Making

Participant Type

Course Fees

IIM Member	3350+603* = 3953
IIM Non-Member	5000+900* = 5900
Student Member	800+144* = 944
Student Non-Member	1200+216* = 1416

*(18% GST)

QR
for Payment



- Participants may join for the 2 days course module which shall be conducted virtually.
- Advance payment of Registration fees is mandatory.
- Participation fee is non-refundable; however, change in nomination is possible.
- Students may furnish suitable proof of they being students while filling in the online form.
- 10% discount shall be offered if more than 5 participants are nominated by any Organisation.

Participants are requested to register via

<https://shorturl.at/CQtWg> [For Individuals]

<https://shorturl.at/OAxYx> [For Organizations]

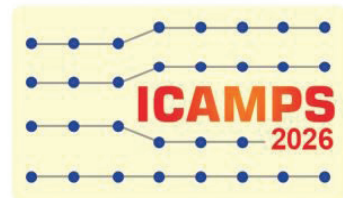


Contact Person:

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Kolkata: 700 091
iimshortonlinecourses@gmail.com
readingroom@iim-india.net

Bank Details:

A/c name:
The Indian Institute of Metals
Bank: State Bank of India,
SME Branch, Salt Lake,
Branch Code: 04289,
IFSC Code: SBIN0004289
Current A/c No.: 54015600024
GST: 19AAATT3359D1ZF
PAN: AAATT3359D



International Conference on Advances in Materials and Manufacturing Processes for Strategic Sectors (ICAMPS 2026)

September 11-12, 2026
Thiruvananthapuram
Kerala, India



Organized by
The Indian Institute of Metals (IIM)
Trivandrum Chapter

Media Partner



www.icamps2026.com



IIM
Metallurgy
Materials Engineering

IIM ATM 2026 JAIPUR

10 - 12 December

Organised by:

Nuclear Fuel Complex,
Malaviya National Institute of Technology Jaipur,
Hindustan Zinc Limited,
Indian Institute of Technology Roorkee &
IIM chapters of Jaipur, Jodhpur & Roorkee



**International Symposium on
“Materials for Sustainable
Green and Nuclear Energy Applications”
&**

**80th Annual Technical Meeting of The Indian Institute of Metals
(IIM ATM 2026)**

Venue: Birla Institute of Scientific Research, Jaipur, Rajasthan

The Annual Technical Meeting

The Annual Technical Meeting (ATM) of The Indian Institute of Metals (IIM) stands as flagship event of the Institute, held each year to bring together professionals from industry, academia and research organizations. It serves as a premier forum where metallurgists, materials scientist and engineers from across the nation share insights, exchange experience and present innovative ideas.

IIM-ATM 2026 will serve as a global platform for exchanging knowledge and promoting collaboration among professionals in the field of materials and metallurgical engineering. The conference will feature plenary lectures, invited talks, technical sessions, panel discussions, metallography contest and poster presentation on various aspects of material research, development and manufacturing technologies.

The Themes

Advances in Ferrous and Non-Ferrous Metallurgy.
High Temperature Materials.
Advanced Characterization Techniques.
Advanced Materials and Processes.
Advanced Composites.
Critical Materials for Clean Energy Transition.
Materials Recovery and Recycling.

Additive Manufacturing.
Advances in Nuclear Materials.
Functional Materials.
Industry 4.0 Technologies.
Surface Engineering and Developments.
Green Energy Production and Storage.

Call for Abstracts

Abstracts, not exceeding 300 words and prepared strictly in accordance with the prescribed guidelines, must be submitted online through the conference website www.iimatm.in. Abstracts sent directly or through emails will not be accepted. The abstracts should be prepared using the template provided on the website.

Important Dates

Last date of abstract submission : August 15, 2026
Email of acceptance : September 15, 2026
Last date of registration : October 15, 2026
Conference date : December 10-12, 2026

Metallography Contest

Registered delegates, who wish to participate in the metallography contest may submit entries under the following categories:

Optical Microscopy
Scanning Electron Microscopy
Transmission Electron Microscopy
Advanced Techniques (AFM, etc.)

The contestants must carefully choose and specify the category of the entry, which will be unique and final. No reclassification will be done by the contestant or the judges afterwards. The micrographs may be submitted in colour or black & white. Winners for the best micrographs will be decided on the basis of technical content, aesthetics (visual aspect) and expertise of the techniques. For further details, please visit conference website.

Souvenir

Souvenirs are essential at conferences as they serve as a strategic tool for brand promotion, enhancing attendee experience, fostering meaningful connections and ensuring lasting recall long after the event concludes. To commemorate this historical event, a souvenir containing the glimpses of the conference will be released by the Chief Guest on 10th December 2026. The souvenir will display messages from eminent personalities, professionals, special articles, event details, awards, sponsors/supporters and advertisements from various industries and organizations from India and Abroad. For more details, please visit conference website.

Souvenir Advertisements Tariff (₹) as applicable (Exclusive of 18% GST)

Position	Tariffs
Outside Back cover page Colour	₹ 1,00,000
Inside Cover Page Colour	₹ 75,000
Full Page Colour	₹ 50,000
Half Page Colour	₹ 30,000

Registration

All the delegates are requested to register online. Registration fees can be paid online, through electronic fund transfer or through demand draft.

Category	Registration Requirement	Registration Fees (exclusive of 18% GST)
Non-IIM Member	-	₹ 10,000 / \$ 500
IIM Member	IIM Membership Number	₹ 8,000 / \$ 400
IIM Member (Retired)	IIM Membership Number	₹ 5,000 / \$ 200
Student (UG/PG)	College / University ID	₹ 4,000 / \$ 100
Accompanying Spouses	-	₹ 5,000 / \$ 200

Bank Details

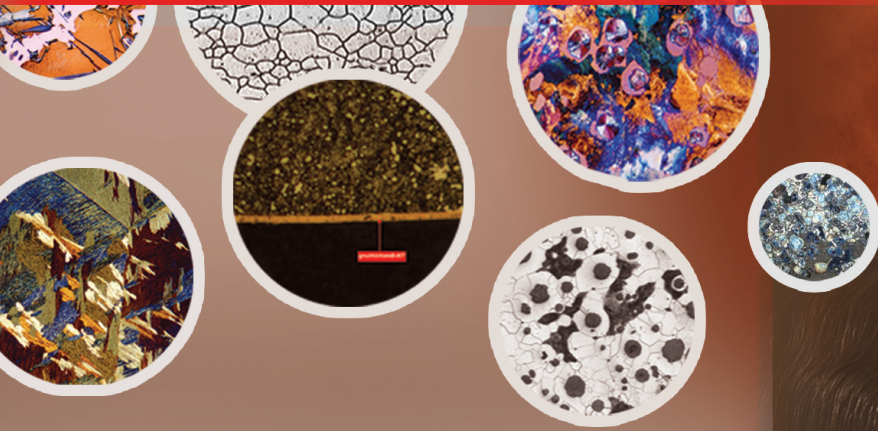


All payments can be made through the following bank account:

Account Name	IIM-ATM 2026
Account Number	676805600640
Bank & Branch	ICICI Bank, MNIT Branch
IFSC Code	ICIC0006768

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