



# ICPCM 2022

4th International Conference on Processing & Characterization of Materials

09 - 11 December, 2022

Celebrating 60 years of excellence



Organized by  
Dept. of Metallurgical and Materials Engg.,  
National Institute of Technology, Rourkela,  
Odisha, India

## International Speakers



**Prof. Anthony D. Rollett,**  
Carnegie Mellon University, Pittsburgh, USA.  
Broad area: Microstructural evolution and microstructure-property relationships in 3D, using both experiments and simulations, 3D printing of metals, materials for energy conversion systems, strength of materials, constitutive relations, microstructure, texture, anisotropy, and stereology of metallic materials.



**Prof. Christopher C. Berndt,**  
Swinburne University of Technology, Australia.  
Broad area: Coatings technology; biomaterials such as orthopaedic devices; failure of materials; thermal spray; nanotechnology.



**Prof. Irene J. Beyerlein,**  
University of California, Santa Barbara, USA.  
Broad area: Computational and theoretical materials science and the effects of microstructure and defects on material properties.



**Prof. Joao Pedro Oliveira,**  
Universidade NOVA de Lisboa, Portugal.  
Broad area: Processing/ microstructure/ properties relationships in a wide range of engineering materials including shape memory and high entropy alloys.



**Dr. Juergen Eckert,**  
Director of Materials Physics of the University of Leoben, Austria.  
Broad area: Materials physics, metastable materials, structure and property correlations and structural and physical properties of advanced materials.



**Dr. M. V. Reddy,**  
Group leader in Energy Storage Technology, Nouveau Monde Graphite (NMG), Montreal, Canada.  
Broad area: Materials for Energy Storage (cathodes, anodes, supercapacitors and electrolytes), Materials processing & characterization, and the development of in situ techniques for Energy storage renewable technologies.

## Address for Correspondence

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## Sponsorship Category

Categories	Charges	Free delegates
Platinum	INR 2,00,000	10
Diamond	INR 1,00,000	5
Gold	INR 75,000	3
Silver	INR 50,000	2
Bronze	INR 25,000	1

## Tourist Places Near Rourkela





## About the Department

Established in 1963, the Department of Metallurgical and Materials Engineering has emerged as a powerhouse for academics, scientific research and cutting edge technologies. With time, the department grew noticeably and established new areas of research and teaching in materials engineering, while retaining its strength in traditional areas in metallurgical engineering. The department attracts bright students and researchers from the entire nation. The well-developed infrastructure and diversified expertise of the faculties have provided the department a global acceptance.

## Aim of the Conference

Advanced processing of materials and their subsequent characterization has become more relevant with the advancement of technology and need of high quality materials for critical applications. The purpose of this conference is to emphasize the recent developments in materials processing and characterization techniques. The conference is expected to attract the researchers, scientists, practicing engineers from various R & D organizations, academic institutions and industries at a single forum. The interdisciplinary approach of the conference may allow the participants to look beyond their areas of activities. The organizers of the conference are already in touch with eminent researchers to deliver key note addresses. This is expected to be a platform for young researchers of the nation to discuss their work with eminent researchers of the fields. Senior practicing engineers, established researchers and faculty members will also get an opportunity to share their knowledge and information.

## Conference Themes

- Ferrous and Non-Ferrous Metal Extraction
- Mechanical Metallurgy and Failure Analysis
- Material Characterization Techniques
- Composite Materials
- Advanced Materials (Defence/Nuclear/Functional/Smart/Other New Generation Materials) and Processing
- Surface Engineering, Thin film and Coatings
- Modelling and Simulation in Metallurgy and Materials Engineering
- Corrosion and Environmental Degradation

## Deadlines

Abstract submission deadline : 30/09/2022  
Abstract acceptance deadline : 15/10/2022  
Full paper submission deadline : 05/12/2022

## Conference Fee

Research scholars/Graduate Students : Rs. 7,000  
Delegates from academics and R&D : Rs. 9,000  
Delegates from Industry : Rs. 15,000  
Foreign delegates : USD 300  
Foreign delegates (Online) : USD 100

\*Conference fee is inclusive of GST

\*Conference fee includes registration kit and certificate of presentation

#For online payment details and guidelines for the abstract preparation, kindly visit conference website

## Conference Publication

The SCI indexed journal "Journal of Materials Engineering and Performance (JMPEP)" has accepted to publish a special issue for the peer reviewed conference papers. Other journal consented for publication is "Materials Today Proceedings" (Scopus).



## Accommodation

Limited accommodation will be provided in institute guest house on first come first serve basis. Prior information for requirement of institute accommodation is to be intimated by participants. However, accommodation will be available in many hotels of Rourkela city at reasonable tariff on payment. The Institute is situated only at 15 minutes driving distance from the city.

## International Advisory Committee

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