

Conference organization

Patron : Director, NIT Rourkela
Chairman : Prof. S. C. Mishra, HOD, Department of Metallurgical and Materials Engineering, NIT Rourkela
Convener : Prof. D. Chaira
Co-convener : Prof. S. K. Karak
Treasurer : Prof. A. Basu

Technical committee

Prof. S. N. Alam
Prof. D. Nagarajan
Prof. A. Patra

Local organizing committee

Prof. K. Dutta, Prof. S. K. Sahoo, Mr. R. Pattnaik
Mr. S. Hembram, Mr. S. Pradhan

Limited accommodation will be provided by the institute guest house on payment basis. Prior information for requirement of institute accommodation is to be intimated. 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.

For Institute accommodation, please contact

Prof. K. Dutta (Email id: duttak@nitrrkl.ac.in) Mobile: +91 9439782218
Prof. S. K. Sahoo (Email id: santoshsahoo@nitrrkl.ac.in) Mobile: +91 9040289501

Reach the convener

Prof. D. Chaira, Dept. of Metallurgical and Materials Engineering
National Institute of Technology, Rourkela – 769 008, Odisha
Ph: 0661 246 2561, Fax No: 0661 2472926, Mobile: +91 9438370956
Email id: ncpcm16@gmail.com, debasis@nitrrkl.ac.in

Registration Form

Name: _____ Designation: _____
Organization: _____
Mailing Address: _____
Telephone: _____ PIN _____
Fax: _____
Email: _____
Details of Registration Fee:
DD No.: _____ Date: _____ Amount: _____ Bank: _____
Expected date and time of Arrival: _____
Departure: _____
Place: _____
Date: _____ Signature _____
All payments are to be made by a/c payee demand draft drawn in favor of "NCPCM 2016" payable at SBI, NIT Rourkela Branch (Code-2109).

December 9-10, 2016

NIT Rourkela



NCPCM - 2016

6th National Conference on Processing & Characterization of Materials

PLENARY SESSION THEMES

- Advanced Materials
- Processing & Characterization
- Deformation Behavior
- Modeling and Simulation

CONFERENCE CHAIRS

- Chairman : Prof. S. C. MISHRA
- Convener : Prof. D. CHAIRA
- Co-convener : Prof. S. K. KARAK
- Treasurer : Prof. A. BASU

Organized by
Department of Metallurgical and Materials Engineering
National Institute of Technology, Rourkela

Aim of the conference

Department of Metallurgical and Materials Engineering, NIT Rourkela is going to organize National Conference on Processing and Characterization of Materials (NCPCM – 2016) during 9-10 December, 2016 after successful completion of earlier five conferences in this series (NCPCM – 2011 to NCPCM – 2015).

"Processing and Characterization of Materials" is a foremost topic of interest for most of the researchers in the scientific community of materials research. In last few decades or so, it has been observed that researchers even from computer science, electrical engineering have started working in the development of cutting-edge material. Advanced processing and characterization techniques make it possible to develop many new materials for different applications. CVD technique made it possible to produce thin films and HRT EM made it easy to find critical details of a material in nano-metric scale and even in atomic scale. The objective of the conference is to highlight all the advances developed in the area of processing and characterization of materials. 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 keynote lectures on processing and characterization of materials. This is expected to be a platform for young researchers of the nation to discuss their work with eminent fellows of the fields. Senior practicing engineers, established researchers and faculty members will also get an opportunity to share their knowledge and information.

NIT Rourkela

The city of Rourkela came into prominence in the year 1955, with the decision of the Government of India to set up the first Public Sector Steel Plant. It is one of the most beautiful cities of the state of Odisha. National Institute of Technology, Rourkela, is one of the premier institutions of government of India for imparting quality technical education in the country. The institute is surrounded by hills and spread over an area of 262 hectares of land. The well maintained green campus of the Institute provides 100 percent accommodation to students, faculties and staff. The campus has all the amenities for developing personal, social and academic skills of the young people. The institute has 10 engineering, 5 basic science and one each of social science and management departments. The city is a huge metropolis connected with all parts of the country by railway and road. Domestic air services are available from Ranchi, Bhubaneswar and Raipur. Kolkata is about 400 kilometers from Rourkela. The population of the city is about 6 lakhs. The city experiences beautiful winter. The minimum temperature during December is about 12° Celsius accompanied with bright sunshine. The greenery and flowers in the campus further make the stay very pleasant.

The Department

Established in 1964, the department has been emerged as 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. Along with all ongoing academic programs, the department has introduced M.Tech. in Steel Technology from 2012. The department

attracts highly qualified faculties and bright students from the entire nation. The well-developed infrastructure and diversified expertise of the faculties has provided the department a global acceptance. The graduates from the department are well-absorbed in esteemed industries or institutions. The department is actively involved in research activities in the front line areas of metallurgical and materials engineering in collaboration with reputed R&D organizations and industries throughout the country.

List of areas

- * Advanced Materials Processing: Metal working, Joining of materials, Solidification and casting, Mechanical alloying, PVD, CVD, Laser processing, Powder processing, Diffusion surface hardening, Coating, Thin films, Laser surface treatment
- * Mechanical Characterization and Failure Analysis
- * Advanced Material Characterization Techniques: XRD, Electron Microscopy (SEM, TEM, AFM, STM), FTIR, RF spectroscopy, Raman spectroscopy, DSC, DTA, TG
- * Materials for Nuclear Industries
- * Materials Modeling and Simulation

Guidelines for Abstract / Full Papers

The extended graphical abstract (350-500 words) can be submitted by email to ncpcm16@gmail.com or debasis@nitrrkl.ac.in ONLY in MS word format. It must carry sufficient information for fair assessment and should contain the following: Full title of the paper (Title case, Font size 14, Bold, Name(s) of author(s) Font size 12, Bold, affiliation, and e-mail id of the corresponding author; (Font size 11, Bold), brief introduction, results, experimentation and findings of the work (Font size 12). All fonts should be Arial (except symbols). The name(s) of corresponding author and presenting author should be mentioned. A conference volume of abstracts will be published and distributed to the registered participants during the conference. *The peer-reviewed full papers will be published in internationally acclaimed (CPC) conference proceedings (Possibly Institute of Physics Journal IOP Conference Series : Materials Science & Engineering).* The detailed guideline for full paper submission is available at www.ncpcm-nitrrkl.in.

Important Dates:

Abstract submission deadline:	31-10-2016
Abstract acceptance deadline:	15-11-2016
Early registration payment:	25-11-2016
The Conference:	9-12-2016 and 10-12-2016

Conference Fees:

(It includes abstract volume, Full Papers in CD, Registration Kit, Article Processing Fees, Working Lunch and Conference Dinner)

Category	Fees (Rs)
Delegates from Industry	8,000/-
Delegates from academics and Govt. R&D	6,000/-
Research scholars/Graduate Students	3,500/-
Accompanying person	2,500/-