

Information  
Brochure

## 2<sup>nd</sup> International Conference on Processing and Characterization of Materials

# (ICPCM-2019)

December 12<sup>th</sup>-14<sup>th</sup> 2019



Organised by

Department of Metallurgical and Materials Engineering

National Institute of Technology, Rourkela

<http://icpcm2019.nitrkl.ac.in/>

### Knowledge Partners

Massachusetts Institute of Technology (MIT), USA  
National University of Singapore (NUS), Singapore  
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Auckland University of Technology (AUT), New Zealand  
Hongik University (HU), South Korea  
Universiti Teknologi Petronas (UTP), Malaysia

### Sponsored By



10+

Plenary Lectures

20+

Keynote Lectures

280+

Contributory Session

20+

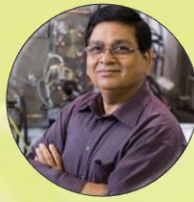
Exhibitors

Venue: Bhubaneswar Behera Auditorium

## Chief Guest / Honorary Guest /Guest



**Prof. Dr. Damodar Acharya**  
Former Director of IIT Kharagpur,  
Chairman of the AICTE,  
Director of the Central Board of The  
RBI



**Dr. P. C. Pattnaik**  
Chief Defence Scientist-Aerospace  
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Chief Environmental Engineer,  
State Pollution Control Board  
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**Prof. Animesh Biswas**  
Director, NIT Rourkela

## Plenary Speaker



**Prof. Ashwin Gopinath,**  
Massachusetts Institute of  
Technology (MIT), USA



**Prof. PAN Jisheng,**  
National University of  
Singapore (NUS),  
Singapore



**Prof. Sarat Singamneni,**  
Auckland University of  
Technology (AUT), New  
Zealand



**Dr. Bruno D' Aguanno,**  
KMM, Italy



**Prof. H. P. B. Hussain,**  
University Technology  
PETRONAS, Malaysia

## Key Note Speaker



**Prof. Shampa Aich,**  
IIT Kharagpur



**Dr. T. Theivasanthi,**  
International  
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**Prof. T. Laha,**  
IIT Kharagpur



**Dr. J. K. Sahu**  
CSIR-NML, Jamshedpur



**Dr. Kanwer Singh Arora**  
Tata Steel



**Dr. B. Sahoo,**  
DRDO

## Invited Speaker



**Prof. A. Nayak,**  
VIT



**Dr. Mayadhar Debata,**  
CSIR-IMMT



**Prof. C. S. Tiwary,**  
IIT Kharagpur



**Prof. R. N. Bulakhe,**  
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Anna University



**Prof. Renu Kumari**  
NIT Jamshedpur



**Er. Sampad Mishra**  
SAIL



## About ICPCM-2019

The Department of Metallurgical and Materials Engineering, National Institute of Technology Rourkela is going to organize the 2<sup>nd</sup> International Conference on Processing and Characterization of Materials (ICPCM-2019) during 12<sup>th</sup>-14<sup>th</sup> December 2019 after successful completion of earlier 1st international conference/8<sup>th</sup> national conference in this series (NCPCM-2011-2018). The *International Conference* on Processing and Characterization of Materials, ICPCM2019, will be a forum to bring together the users, manufacturers, designers and researchers involved in structures or structural components manufactured using different materials. The forum would provide an opportunity for the exchange of the researches and insights from scientists and scholars, and promoting research, development and use of composite material and structures. The conference theme for the ICPCM2019 is "Processing and Characterization: Recent Advances and Development", which tries to explore the very important role of innovation in the development of materials. Papers dealing with design, research and development studies, experimental investigations, theoretical analysis and fabrication techniques relevant to the application of materials in various assemblies, ranging from individual components to complete structure will be presented at the conference.

## About NIT Rourkela

National Institute of Technology Rourkela (NITR), formerly Regional Engineering College Rourkela (REC Rourkela), established in 1961, is one of the premier national level institutions for technical education in the country and is funded by the Government of India. As per the Times Higher Education World University Rankings of 2018, NIT Rourkela has the position in between 601-800 in the world and 126<sup>th</sup> in Asia. QS BRICS overall University Ranking 2019 has figured NIT Rourkela at 121<sup>st</sup> position. NIT Rourkela is presently ranked the 2<sup>nd</sup> best NIT and 12<sup>th</sup> nationwide (including IITs) by the MHRD. The campus has all the amenities for developing personal, social and academic skills of the student community. The Institute has been modernized by two foreign collaborative funding agencies i.e. the Material theme in the Materials and Metallurgical Engineering department under Indo-U.K. REC project and the Computer Science and Electronics streams under World Bank cum Swiss Development Corporation IMPACT project. With 21 departments awarding graduate and post graduate degrees including Ph.D. in Engineering, Science, Planning and Architecture, Management, and Humanities, NIT Rourkela is one of the prestigious institutes in the country. NIT Rourkela is a well-known technical institute of national importance serving as a knowledge hub to the nation. The campus of the institute consisting of the Institute buildings, halls of residence and staff colony, spread over an area of 262 hectares of land is surrounded by scenic hills providing a spectacular rejuvenating atmosphere, which is very conducive for study and research. The well maintained green campus of the Institute provides accommodation to all students, faculties and staffs. The campus has all the amenities for developing personal, social and academic skills of young people. The greeneries and flowers in the campus further make the stay very pleasant and enjoyable.

# About Department of Metallurgical and Materials Engineering

Established in 1964, the Department 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 of metallurgical engineering. The department is actively involved in fundamental research in diversified fields like steel technology, advanced manufacturing processes, alloy designing, nanotechnology, composites and computational materials. The alumni of the department hold strong positions in many prestigious organizations over the world. The department attracts highly qualified faculties and bright students from the entire nation. The well-developed infrastructure, diversified expertise of the faculties and incredibly talented students has placed the department in the global forum. The graduates from the department are well-placed in esteemed industries and institutions. The department has a history of producing highly ambitious students motivated for higher education in India and overseas. 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. The research wing of the department is strongly supported by various public and private organizations. At present, various research projects are being run in the department by external sponsoring agencies like Department of Science and Technology (DST), Council of Scientific and Industrial Research (CSIR), Naval Research Board (NRB), Defence Research and Development Organisation (DRDO), Board of Research in Nuclear Sciences (BRNS), National Aluminum Company (NALCO), TATA Steels, Steel Authority of India Ltd (SAIL). Recently, Maruthi India and Swift strip India has joined hands together with the department for active collaborative industrial research on advanced materials.

## Call for Papers

Interested Research Scholars, Faculty Members, Scientists and Engineers working in Research Institutes, Universities, Colleges and Industries related to the field of materials science & Engineering and allied branches may submit the Extended Abstract to the Conference convener. All selected Abstracts, Plenary, Invited Lectures and Contributory Papers will be published in the Book of Abstract

The selected papers those will be presented in the Conference will be published in the Regular Issue of SCI/Scopus indexed journal.

**Corresponding / Presenting Author(s) have to register themselves for the International Conference, without which the paper will not be considered for presentation**

Nodal Dates	
Abstract Submission Deadline	01October 2019
Notification of Abstract Acceptance	08October 2019
Full Paper Submission Deadline & Author's Registration Deadline	28 October 2019





# CONFERENCE THEMES

## ✓ Materials Processing

- Process metallurgy
- Fabrication of Material
- Equipment Processing
- Designing of materials
- Industrial unit processes
- Machining of materials
- Processing of materials and its environmental effect

## ✓ Advanced Materials

- Smart materials
- High Temperature Materials
- Ultralight materials
- Nanomaterials& Nanotechnology
- Oxide Dispersion Strengthened Alloys
- Plasma technology
- Bulk Metallic Glass
- Aero-vehicle Materials
- Functional Graded Materials
- Bio-Implants
- Magnetic Materials

## ✓ Surface Engineering

- Surface Design
- Surface modification technologies
- Surface process control
- Surface non-destructive examination
- Tribology of surface
- Thin film
- Surface and Interface analysis

## ✓ Sustainable Energy Materials

- Cleaner methods of producing energy and energy conservation
- Materials used for solar energy
- Materials used for wind energy
- Materials used for geothermal energy
- Materials used for tidal energy and hydropower
- Energy storage materials

## ✓ Computational Methods and Material

- Nonlocal theories
- Fracture mechanics, Delamination
- Generalized continuum theories
- Multiscale Analysis of materials
- Advanced Numerical Techniques
- Micromechanics
- Optimization techniques and methods
- Plate and Shell finite elements
- Industrial equipment structure design
- Structures simulations
- Thermal problems on material structures

## ✓ Materials Characterization

- Characterization Technique
- Product characterization
- Microanalysis and surface analytical techniques.
- Advanced Characterization

## ✓ Composites

- Polymer, Ceramic, Metal matrix composites
- Fiber reinforced composites
- Nano composites, Bio composites
- Textile Hybrid composites
- Auxetic materials
- Porous and cellular materials
- Composite Repair techniques, self-healing
- Composites in Innovative applications
- Repair & Recycling of composite
- Offshore structures and Marine Applications

## ✓ Defence Materials

- Nuclear Materials
- Radioactive material
- Materials for advanced defence application
- Transport of nuclear materials
- Storage of nuclear materials
- Disposal of nuclear materials
- Reactor design, fuels, fusion, future technologies
- Radioisotope production
- Naturally occurring radioactive materials

## ✓ Waste Utilization

- Industrial Waste Utilization
- Organic waste Utilization
- Hazardous Waste Utilization
- Recyclable waste
- Electronic waste utilization in material
- Industrial Waste management

## ✓ Environmental Degradation of Materials

- Oxidation of Metals
- Corrosion & Protection
- High Temperature degradation
- Bio-corrosion
- Self-passivating materials
- Techniques for protection against degradation

## Submission of Synopsis / Full Text

The authors are requested to submit the abstract and full text (post-acceptance of abstract) through online website: <http://icpcm2019.nitrkl.ac.in/>. Acceptance of abstract will be notified after duly reviewed by the technical committee.

## Guidelines for Authors

Authors of accepted abstracts may submit their full paper for the International Conference as per the Guidelines as mentioned below. The papers which are not following these guidelines may not be considered for peer review and publication.

### Preparation of Abstract

- The Abstract should be in doc / docx; Title should be in 14 pt& Bold; Affiliation should be in 12 pt; Abstract should be in 12 pt Bold; Text of Abstract should be in 12 pt.
- Only those abstracts which follow the mentioned format will be considered for evaluation by the Scientific Committee of the Conference. The Abstract should be submittedin: <http://icpcm2019.nitrkl.ac.in/> on or before **1<sup>st</sup> October, 2019**.

### Preparation of Power point Presentation

- 10 min Presentation followed by 2 min discussion

### Preparation of Poster

- On evaluation, the Abstracts may be selected either for Oral or Poster presentation.
- Poster size should be 1 m x 1 m

**The Organizers will confer Best Oral and Best Poster Awards based on the quality of presentations as would be adjudicated by the Panel of Experts**

### Preparation of Full Text of Paper

Papers should be camera-ready in MS-Word format, not exceeding 10 pages in length and should not carry more than 5 illustrations /photographs. The language of the Publication is English. The mode of presentation should be in third person. The Template for preparation of article is attached for ready reference of the authors. SI units should be used wherever possible. Other units, if used, should be given only in parentheses preceded by SI units. Mathematical symbols should be typed and care should be taken to differentiate between similar characters (e.g. 1 and I), upper and lower case letters and superscripts and subscripts. Lengthy mathematical proofs and derivations and extensive test data are discouraged. If absolutely essential, they should be given as an appendix. The template of Paper can be downloaded from the paper submission guidelines from the conference website.

### Copyright

The papers are considered for possible publication on the understanding that these have not been submitted to any other publisher. The copyright of papers accepted for publication lies with the conference organizer and reproduction of the papers or any part thereof is not allowed without the permission of the Institution. Contributors are required to sign a declaration to this effect while submitting their papers. The Declaration form of journal can be downloaded from the conference website.

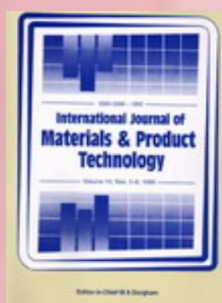
## Publication in Scopus Indexed/ SCI Journals

The selected papers those will be presented in the Conference will be published in the **following Journal** after Peer Review process.

Selected qualitative papers from the conference will likely to be published in following International journals as special Issues as agreed upon by the respective editorial board of the journals listed below.

- ☐ **Metals and Materials International** (Special Issue), SCI Journal
- ☐ **International Journal of Materials and Product Technology** (Special Issue), SCI Journal
- ☐ **Journal of Materials Research** (Focus Issue), SCI Journal
- ☐ **Tribology Transactions** (Special Issue), SCI Journal

All the conference articles presented in person and not considered by any of the above listed journals will be published by Elsevier in “**Materials today proceeding**”.



## Registration Fee for the Conference

Delegates	Indian (INR)		SAARC country (US\$)		Others (US\$)	
	Early bird registration	After 28 <sup>th</sup> Oct, 2019	Early bird registration	After 28 <sup>th</sup> Oct, 2019	Early bird registration	After 28 <sup>th</sup> Oct, 2019
Students / Research Scholar	5,000	6,000	100	150	250	300
Faculties & Staff	8,000	9,000	150	200	350	400
Industrialist	10,000	11,000	200	250	400	450

\*Spouse Registration: 2000 INR (USD 100)

**Note: Registration Fee includes Participation in all Sessions of the Conference, the Exhibition, Official Banquet, Opening & Closing Ceremonies, Buffet Lunch along with Tea / Coffee, Delegate Kit, Local transport, etc.**

**Venue: NIT-Rourkela**

## Sponsoring Agencies

Categories	Charges and Facilities		
	Indian	Overseas	Free delegates
Platinum	INR 2,00,000	USD 2500	6
Gold	INR 1,00,000	USD 2000	4
Silver	INR 50,000	USD 1500	2
Bronze	INR 40,000	USD 1200	1

\*Contributor: 30,000

## Advertisement Tariff

A few selected advertisements of reputed organizations will be published in the Proceeding. The Advertisement material may be sent along with prescribed fee (below) may be sent on or before 31 October, 2019.

Back Cover (outside) Multi-Colour: INR 50,000

Back Cover (inside) Multi-Colour: INR 30,000

Full Page Multi-Colour (Inside): INR 20,000

Full Page (Inside) Black & White: INR 10,000

Half Page (Inside) Black & White: INR 5,000

*Note: GST & Tax included*

**Eminent organizations associated with international equipment and technology, automation system and laboratory equipment manufacture etc. are invited to join this international event as Sponsors of the Conference. Sponsors will be allowed a free stall in the Exhibition, a full page color advertisement in the Souvenir, Free delegates and prominent display of their logos at Conference Venue. Details shall be provided on request.**

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GST NO.: 21AAAJN0665L1Z8



## Accommodation

All Delegates have to arrange their own accommodation within the close proximity of the Conference venue. The list of available Hotels: <https://www.nitrkl.ac.in/ContactUs/Hotels.aspx> .

## About Rourkela City

Rourkela is a planned city located in the northern part of Odisha, India. It is the third largest Urban Agglomeration in Odisha. It is surrounded by a range of hills and encircled by rivers. The city is also popularly known as Ispat Nagar and also as the Steel City of Odisha. It has one of the largest steel plants of the Steel Authority of India Limited (SAIL) known as Rourkela Steel Plant. The city has been selected as smart city in the third phase of smart city list on 20 September 2016. Among the entire 27 city list, Rourkela ranked 12<sup>th</sup> position on merit basis. Rourkela is located at 84.54E longitude and 22.12N latitude in Sundergarh district of Odisha at an elevation of about 219 m (719 ft) above mean sea level. The area of Rourkela is 200 square kilometres approximately. Being situated on Howrah-Mumbai rail track, Rourkela had an added advantage of the steel plant being set up there. Red and laterite soils are found here which are quite rich in minerals. The area near Rourkela is rich in iron-ore hence a steel plant is situated in Rourkela. Bolani and Barsuan are the two most prominent mines situated near the town. A small hill range named Durgapur Pahad runs through the heart of the city dividing it into plant area and the steel township. The South Koel River and Sankha rivers meet at Vedvyas, Rourkela and flow as a single river called Brahmani. The Rourkela Township is divided into two separate townships under Census of India as Steel Township and Civil Township. The Residential quarters colony of Rourkela Steel Plant having 21 sectors on record is called Steel Township and the other part is called Civil Township. The 16 km long Ring Road, connects 19 sectors and some other parts of the steel city including old Rourkela. Other layouts include Chhend Colony, Civil Township, Station Road (Bus and Railway), Koel Nagar, Jagda, Jhirpani, Panposh, Udit Nagar, Fertiliser Township, Hamirpur, IGH Road, Vedvyas. Rourkela has a tropical climate and receives high rainfall during Southwest monsoon (June-September) and retreating Northeast monsoon (December-January). The minimum and maximum temperatures are in the range of 5 °C to 49.7 °C with a mean minimum and maximum temperature range of 12.0 °C to 31.5 °C during coldest and hottest months. Thirty six percent of the geographical area of the district has semi-evergreen.

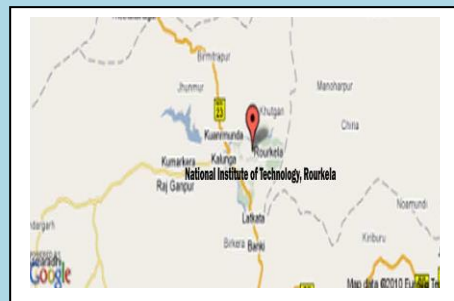
## How to Reach

**By Road** - Rourkela is well connected by State Highway no. 10 and National Highway no. 23. It connects to the cities like Ranchi, Raipur, Sambalpur, Bhubaneswar etc.

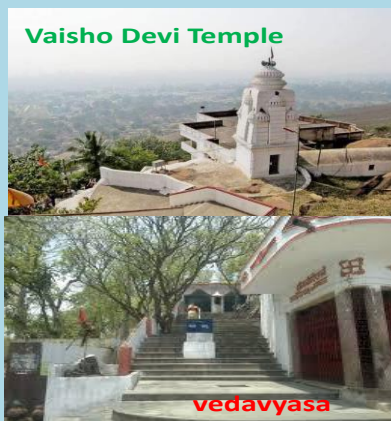
**By Rail** - Rourkela railway station is 7 km away from the NIT campus. The Howrah-Mumbai line and Ranchi-Bhubaneswar line passes through this city.

**Major airports in the proximity of Rourkela by Air, Train and Road can be referred at:**

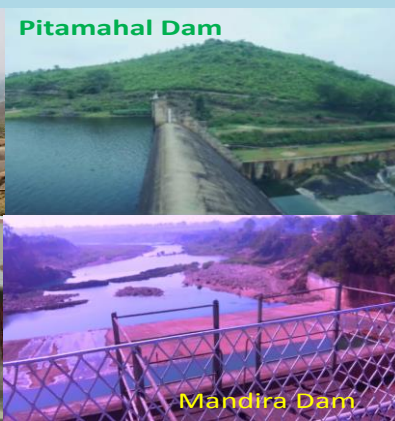
Airport	Rail distance from Rourkela / Journey time	Road distance from Rourkela / Journey time
Jharsuguda	135 km, 1 hrs 30 mins	135 km, 2hrs 30 mins
Kolkata	413 km, 6 hrs	525 km, 9 hrs
Bhubaneswar	462 km, 6 hrs	320 km, 5 hrs
Ranchi	166 km, 3 hrs	222 km, 4 hrs
Raipur	417 km, 6 hr 30 mins	448, 6 hrs 30 mins



## Tourist Places Near Rourkela



Vaisho Devi Temple



Pitamahal Dam



Hanuman Vatika

Khandadhar fall



**Chief Guest:** Sj. DharmendraPradhan (Minister of Steel)

**Patron:** Prof. AnimeshBiswas (Director, NIT Rourkela)

**Chairperson:** Prof. S. Sarkar (HOD-MM)

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**Co-convener:** Prof. A. Patra, patraa@nitrkl.ac.in

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**2<sup>nd</sup> International Conference on  
Processing and Characterization of Materials  
(ICPCM-2019)**

December 12-14, 2019, Rourkela, India

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# Processing and Characterization of Materials (ICPCM-2019)

DECEMBER 12-14, 2019, ROURKELA, INDIA

## COLLABORATOR/SPONSOR/SUPPORTER

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We would like to participate in the International Conference on 'Processing and Characterization of Materials (ICPCM-2019) to be held in NIT Rourkela on December 12-14, 2019 as Sponsor / Collaborator / Supporter/ Donor.

Enclosed please find a DD / Cheque No/ Transaction ID. .... Dated

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Thanking you.

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# About Previous Conferences

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**2018**

1<sup>st</sup> International Conference on Processing  
and Characterization of Materials  
**and**  
8<sup>th</sup> National Conference on Processing and  
Characterization of Materials

**Published by: 1) Materials Science  
Forum, 2) Int. Journal of Materials  
Research**

**2017**

7<sup>th</sup> National Conference on  
Processing and Characterization of  
Materials

**Published by: Materials  
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**2016**

6<sup>th</sup> National Conference on  
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**2015**

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**2012**

2<sup>nd</sup> National Conference on  
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**2011**

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## Registration:

You can register at: <http://icpcm2019.nitrkl.ac.in/>

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