

NIT Rourkela

NIT Rourkela is a premier centre for teaching, research and industrial consultancy in the country. At present, the institute has 21 departments and the campus is situated in lush green zone with beautiful hills and ponds. The institute offers B.Tech, M.Tech and Ph.D. programmes in all the disciplines. The city of Rourkela has a German sponsored public sector undertaken steel plant (SAIL) along with many supporting small scale industries around the city.

Mechanical Engineering

The department trains the students in Mechanical Science as well as those under interdisciplinary programs. The broad areas of interest in the Department include Mechanics of Solids and Stress Analysis, Dynamics and vibrations, Manufacturing Science & Industrial Engineering, Energy Conversion and Power Systems, Heat Transfer and Fluid Mechanics, Engineering Design and cryogenics. Department offers four streams of post graduate programs: (i) Machine Design and Analysis (ii) Production Engineering (iii) Thermal Engineering and (iv) Industrial Cryogenics. The department has good number of laboratories with latest facilities.

Objective of the Conference

Today, there are drastic changes found in Mechanical Engineering science. Developments in Design, thermal and production engineering have paved a way to improvise the product and process technology, Modern techniques like CAD/CAM have changed the modeling and analysis phases. In this line, Mechanical Engineering has become an interdisciplinary subject with special emphasis on structural, thermal and fluid

mechanics problems in various facets in science and technology. In this line, with the theme as 'coupled-field analysis', present conference focuses on various issues in and out of the Mechanical Engineering stream relating to multi-field problems. The main program includes mathematical theory, numerical simulations, physical experiments, engineering design, information techniques, biological and financial studies and other applications. There will be several keynote/invited lectures in the area along with several technical sessions for 3 days.

The Conference Topics/Themes

Interested researchers, academicians and scholars are requested to share their relevant contributions in the following areas, but not limited to:

- Engineering Design and thermal/flow studies of industrial systems.
- Numerical simulations of production processes.
- Novel models and formulations for multiphysics and multiscale problems, MEMS and NEMS.
- Developments in CAD/CAM
- Parallel computation techniques
- Hybrid methods for multiphysics with software like ABACUS, COMSOL
- Any other contemporary topics relevantly.

Full length papers with detailed abstract, keywords, and text body may be sent to conference e-mail: rdcfpe2018@gmail.com on or before revised date **1st June 2018**. After preliminary review, the comments and suggestions will be mailed. All the camera-ready papers will be submitted to IOP Conference Series: Material Science and Engineering and Int. J. Multiphysics after the conference presentations.

National Conference on "Recent Developments in Mechanical Engineering"

(Theme: Coupled-Field
Problems in Engineering)

July 27 -29, 2018



Organized by

Department of Mechanical Engineering
National Institute of
Technology Rourkela-769 008, India
<http://www.nitrkl.ac.in>

National Conference on 'Recent Developments in Mechanical Engineering'

27-29th July 2018

Registration form

(It may be printed on A4 size paper)

1. Name:.....
2. Designation:.....
3. Department:.....
4. Institution/Organization:.....
5. Address:.....
.....
.....
6. E-mail Address:.....
Mobile/Tel Ph.:
7. Areas of Research
interests:.....
.....
.....
8. Accommodation wanted: Yes/No

Date
Signature

Patron

Prof. A.Biswas,
Director, NIT Rourkela

Chairperson

Prof.D.R.K.Parhi,
Department of Mechanical Engineering

Joint Organizing Secretaries

Prof. J.Srinivas,
Department of Mechanical Engineering
Prof. S.K.Behera,
Department of Mechanical Engineering
Prof.S.Ghosh
Department of Mechanical Engineering

Advisory Committee

Prof. V.V.Silberschmidt,
Loughborough University, UK
Prof.Arvind Raman,
Purdue University, US
Prof.C.S.Jog, I.I.Sc.Bangalore
Prof.M.Pathak, IIT Patna
Prof.K.K.Shukla, MNNIT Allahabad

Local Organizing committee

Prof.S.K. Panda, NIT-Rourkela
Prof. S.Datta, NIT Rourkela
Prof.H.Roy, NIT Rourkela
Prof.T.Roy, NIT Rourkela
Prof.Ambarasu, NIT Rourkela
Prof.Pradeep Sarkar, NIT Rourkela
Prof. Robin Davis, NIT Rourkela
Prof.M.Rajik Khan, NIT Rourkela
Prof.B.B.V.L.Deepak, NIT Rourkela
Prof.D.S.Bisht, , NIT Rourkela
Prof.Mohit Lal, NIT Rourkela

Registration Fee

Student/Research Scholars	Rs.2000
Faculty from academics	: Rs.4000
R&D/Industry Delegates	Rs.5000
Advertisements	Rs.8000

Hard copy of filled in and duly signed registration form forwarded by Principal//HOD of the Institute should be sent to the contact person on or before **1st June 2018** along with Demand Draft/multicity cheque. Also, registration can be done through online transfer (Bank Account No. 36734418111, on the name of 'Conference NIT Rourkela' payable at NIT Rourkela SBI (IFSC code: SBIN0002109).

Accommodation

Accommodation will be provided on pre-request in the institute guest house. It is purely on first come basis. Other than institute guest house, many hotels are available at Rourkela. Location of institute and transport facilities can be found in website www.nitrkl.ac.in.

Contact Details

Convenor
Prof.J.Srinivas, srin07@yahoo.co.in
Phone: 0661 2462503
Co-covenors
Prof.S.K.Behera
Prof.S.Ghosh
Phone: 0661 2462508/2531
Department of Mechanical Engineering,
NIT-Rourkela
E-mail: rdcfpe2018@gmail.com

National Conference on
'Recent Developments of Coupled-field Problems in
Engineering'

27-29th July 2018

Registration form
(It may be printed on A4 size paper)

- 9. Name:.....
- 10. Designation:.....
- 11. Department:.....
- 12. Institution/Organization:.....
- 13. Address:.....
.....
- 14. E-mail Address:.....
 Mobile/Tel Ph.:
- 15. Areas of Research interests:.....
.....
.....
- 16. Accommodation wanted: Yes/No

Date

Signature