

Mechanical Engineering Department

Mechanical Engineering is one of the oldest Departments in the institute. The Department strives to train the students under Mechanical Science as well as those under interdisciplinary programs. The broad areas include Energy Conversion and Power Systems, Heat Transfer and Fluid Mechanics, Mechanics of Solids and Stress Analysis, Manufacturing Science & Industrial Engineering, Automatic Controls & Engineering Design. The design stream is now having PG and Ph.D programs in various areas including materials, tribology, stress and vibrational analysis and robotics.

NIT Rourkela

NIT Rourkela is one of the premier centre for teaching, research and industrial consultancy in the country. The institute has 17 departments and the campus is situated in lush green environment and the weather in middle. Faculty members are engaged with various research projects from public and private sector agencies.

About NSPNEA

Polymer nanocomposite materials are found in various modern engineering applications. Especially polymeric materials with fibrous material: carbon, graphene and carbon nanotubes are being more popular and are analysed with various computational tools. The idealization has started with 1-D models and extended to 3-D solid unit cells and RVEs'. These models can be employed for study of the effect of filler/particle concentrations and discontinuities on overall material properties. In additional, use of these materials in various industries has to be fully exploited. In this line, this conference facilitates a forum for presenting the research works relating to the simulations and experimental works on polymer nanocomposite materials.

Conference Themes

Conference facilitates a platform for discussion of several themes relating to the polymeric nano-composites.

- Materials modeling using molecular dynamics, finite element analysis etc.
- Modeling of hybrid polymeric composites and nano-particulate polymers.
- Application cases of polymeric nano composites.
- Experimental characterization of new polymer nanocomposite material.

Call of Papers

The seminar invites the researchers, industry professionals and students to submit original and unpublished research articles on above themes. An extended abstract using MS-Word document with 12 font Times New Roman style and single-spacing with 300 words with authors' name, address and e-mail should be submitted to the organizing secretary NSPNEA by e-mail: srin07@yahoo.co.in. After acceptance of abstract, the full-length paper in camera-ready format (within about six A4 pages of double column, single line spacing) can be submitted before due dates. A printed conference proceeding booklet will be published along with keynote addresses.

Important Dates

Extended abstract : 28th Feb 2015
Notification of acceptance : 1st Mar 2015
Full length paper deadline : 5th Mar 2015

National Seminar on

“Polymer Nanocomposites for Engineering Applications”

(NSPNEA)

14th March 2015

Organized by

**DEPARTMENT OF
MECHANICAL ENGINEERING**



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA - 769 008, ODISHA**
<http://www.nitrkl.ac.in>

**National Seminar on
“Polymer Nanocomposites for
Engineering Applications”
(NSPNEA)**

**March 14, 2015
Registration form**

1. Name:.....
2. Designation:.....
3. Department:.....
4. Institution/Organization:.....
5. Address:.....
.....
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6. E-mail Address:.....
Mobile No:.....
Telephone No:.....
Fax No:.....
7. Areas of Research interests:.....
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8. Accommodation details:

Date

Signature

Patron

Prof. S.K.Sarangi, FNAE, Director,
NIT Rourkela

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Prof.S.S.Mohapatra, NIT-Rourkela

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Registration Fee

Students/Research Scholars Rs.1000
Faculty from academics Rs.2000
R&D/Industry Delegates Rs.3000

*For faculty and scholars from TEQIP sponsored institutions, fees, boarding and lodging charges are exempted.

Mode of payment

Payment is accepted only in the form of demand draft favoring “NSPNEA” payable at Rourkela, India.

Accommodation

Accommodation will be provided from 13th evening to 14th March at the institute guest house. It is purely on first come-first serve basis. The institute is located at a distance of 8 Km away from railway station.

Contact Details

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Organizing Secretary

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NIT-Rourkela

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