

## NATIONAL CONFERENCE

On

## COMPUTER AIDED MODELLING AND SIMULATION IN COMPUTATIONAL MECHANICS (CAMSCM 2009)

March 13-14, 2009

Organized by



Mechanical Engineering Department  
North Eastern Regional Institute of  
Science and Technology (NERIST)  
(Deemed University)  
Nirjuli-791109,  
Arunachal Pradesh, India.

## OVERVIEW

With globalization there is an increase in demand for computational Research for the acceptability of high quality and reliable products at an affordable price. In the International arena, it has been felt that the computers and the computational methods such as modelling and simulations have become indispensable tools for finding the solutions of many designs and the real life problems. Through computational mechanics and simulation approach, extensive numerical experiments could have been established before accepting the final product.

Hence, it is very much important for the individuals in the Engineering Education and Industries to keep themselves updated with the latest concepts and tools in the area of computational modelling and simulation. In order to fulfill these objectives, the Department of Mechanical Engineering of NERIST has taken an attempt to organize a **National Conference on Computer Aided Modelling and Simulation in Computational Mechanics** during **March 13-14, 2009**. The proposed Conference shall cover almost all areas of Engineering and Science such as given in the Scopes and Themes of the Conference.

## SCOPE AND THEMES

The themes of this National Conference on Computer Aided Modelling and Simulations in Computational Mechanics are:

- Computational techniques for numerical methods,
- Computational applied mathematics,
- Computational methods in fracture mechanics,
- Finite Element Analysis (FEA),
- FEA in computational mechanics,

- Computational fluid dynamics,
- Geometrical modelling,
- Structural dynamics,
- Fluid structure interaction,
- Multi scale modeling,
- Modelling and simulation of smart materials and smart structures,
- Mechanics of composite materials,
- Damage mechanics of composite structures,
- Computer integrated manufacturing and automation,
- Digital manufacturing, Mechatronics,
- Computer aided optimization techniques,
- AI and GA in design and manufacturing,
- Computer aided instrumentation and testing,
- Computational heat transfer,
- Computational physical sciences,
- Water resource engineering.

## TECHNICAL PROGRAMMES

Technical programmes of the Conference comprise of Plenary and Invited Lectures by the Speakers of International/National repute on selected topics, presentation of peer reviewed papers in the Technical Sessions and Panel discussions.

## PAPER FORMAT

The authors are requested to submit the full paper of their own Research works by e-mail and surface mail (hard copy). The full manuscript should be within 10 pages of A4 size paper and should be prepared in MS word of 10 font size. The fonts should be in **Arial narrow**. The top, bottom, left and bottom margin should be 30 mm in a A4 size paper. **Title:** 14 font Bold and Capital and followed by the complete authors name, address (**in italics and 12 font size**) including the e-mail with an asterisk mentioning the author responsible for presenting the paper. The manuscript should have the sections such as Abstract, Keywords, Introduction, Theory and formulations, Tools and methodology, Results and Discussions, Conclusions and References. Reference style should be same as that followed by the Journals published by *Elsevier*.

## REGISTRATION FEE

The Conference is open for academicians, scientists, engineers and researchers.

1. Authors from Government Academic Institutions : Rs 1200.00,
2. Authors from Non-Government Academic Institutions : Rs 1000.00,
3. Authors from Non-academic Organizations : Rs 1500.00 and
4. Student authors: Rs 800.00.

The registration fee includes the Conference kits, local conference trips, and Conference lunch and dinner. The registration fee should be paid through a crossed Demand Draft favoring '**Director, NERIST**', payable at '**SBI Nirjuli (Code 9535)**'. Lodging can be arranged in the Institute Guest House on payment basis at nominal cost with prior request. Multiple authors are required to register separately for their participation in the Conference. **The information brochure and the Registration form is available in the Institute web site ([www.nerist.ac.in](http://www.nerist.ac.in))**

## IMPORTANT DATES

Last date for submission of full paper: 22.01.2009.

Intimation of Review Details: 07.02.2009.

Submission of camera ready paper along with the completely filled in Registration form: 15.02.2009.

Conference date: March 13-14, 2009.

## THE INSTITUTE AND THE HOST DEPARTMENT

North Eastern Regional Institute of Science and Technology (Deemed University) was set up by the Government of India as a unique Institute of its kind in the country having non-conventional modular pattern. NERIST is located in a picturesque valley and is situated at Nirjuli (on the way to Itanagar). NERIST has excellent academic, research, laboratory and library facilities in various disciplines of Engineering, Applied Sciences and Humanities & Social

Sciences. The Mechanical Engineering Department of the Institute is very rich in terms of resources such as faculties from reputed Institutions, well equipped laboratories, running various UG and PG programmes and conducting many activities at National level. NERIST is well connected by rail, road or air. Night and day supper deluxe buses are plying daily from Paltan Bazar, Guwahati. The climate of Nirjuli during the month of January is pleasant with a temperature variation from 10°C to 15°C.

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## REGISTRATION FORM

### NATIONAL CONFERENCE ON COMPUTER AIDED MODELLING AND SIMULATION IN COMPUTATIONAL MECHANICS

(MARCH 13-14, 2009)

Name:

Designation:

Department:

Institution:

Address:

E-mail Address:

Mobile:

Fax:

Paper Title:

Whether accommodation is required: Yes/No

Demand Draft No.

Date:

Signature of the Delegate:

*Please send the filled in Registration Form (by surface mail and e-mail) to:*

**Dr. S. K. Panigrahi**

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North Eastern Regional Institute of Science and  
Technology (Deemed University)  
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