

**National Conference  
on  
Biomechanics  
(7-8 March, 2009)**



**Organized by**

**Department of Mathematics  
Indian Institute of Technology Roorkee  
Roorkee-247667  
India**



## **Introduction:**

Indian Institute of Technology, the host institute of the National Conference of Biomechanics, is one of the premier institutions renowned for its rich academic legacy of more than 150 years and as a centre of excellence in fundamental science and technology all over the world. The department of Mathematics besides providing core P.G. courses: M.Sc. in Applied Mathematics and Industrial mathematics plays a significant role in providing liberal education at both U.G. and P.G. levels to engineering departments of the institute in order to broaden the horizon of student. Interdisciplinary in orientation, it is running successfully the M.C.A. course which is well renowned in leading software scenario in India. The department also offers research in core Mathematics as well as in various multidisciplinary areas and has a rich experience, adequate resources and facilities for organizing academic conferences.

## **Theme/Objective:**

Biomechanics is an interdisciplinary science and has been emerging as one of the most challenging and interesting areas of research. It involves not only Bioengineers, or Biomedical Engineers, but also mathematicians, engineers from other disciplines Physicians, physiologists sports scientists too. It has been widely accepted as an authenticated bridge between medical discipline, engineers and scientists.

The two day conference will provide a unique platform for enriching the flavor and culture in Biomechanics by cross pollination of Engineering and Mathematical thoughts with clinical interaction on many recent topics, lectures will be delivered by well known experts from academia, research centers and Industries. These topics include

1. Biofluid mechanics (including cardio vascular mechanics)
2. Biosolid mechanics (bone, dental, neural, tissue)
3. Orthopaedic Biomechanics
4. Image processing in Bio mechanics
5. Modeling and simulation in Bio-mechanics and Bio-instrumentation
6. Respiratory mechanics with special reference to nano bio systems
7. Genetic Bio mechanics
8. Pharmaco mechanics
9. Sports Biomechanics and
9. Mechanics of Biomaterials and similar fields.

## **Deliberations:**

The Conference will include invited talks on the topics related to the theme. Apart from that, special sessions on various topics will be organized, which will include paper presentation (both poster and oral). We hope to receive a long list of papers from engineers, Mathematicians, Biotechnologists and physicians, surgeons, which will help in generating a variety of interdisciplinary areas, thus strengthening Bio Mechanics environment. Papers will be published in the Journal of Biomechanics after peer review.

## **Important dates:**

Abstract Submission deadline:

**Jan 15, 2009**

Notification of Acceptance:

**Jan 30, 2009**

Registration last date:

**Feb 15, 2009**

## **Registration Fees:**

Delegates from Institutes/ Research Centers:	<b>Rs 2500.00</b>
Accompanying Person:	<b>Rs 1200.00</b>
Research Scholar/ Student:	<b>Rs. 1200.00</b>
Industries:	<b>Rs. 5000.00</b>

### **Submission of Paper:**

- ❖ Extended Abstracts (not more than four pages) carrying the title, name, necessary references with no figure or tables should be submitted by Jan 15, 2009 to the Organizing Secretary. The text should be typed in Times New Roman font, 12 points and single spaced. Electronic version is requested. The abstract can be directly sent to the organizing secretary by e-mail.
- ❖ Acceptance of the papers will be informed through email by Jan 30, 2009.
- ❖ Registration fees should be paid by DD in the name of Organizing Secretary NCBM 2009 payable at Roorkee, which should reach latest by Feb. 15, 2009. **Free boarding and lodging will be provided to all registered participants.**

### **Contacts:**

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### **Host city:**

Roorkee, the gateway to Dev Bhumi (Uttanchal) is very close to holy places like Haridwar, Rishikesh, and tourist spot Mussoorie, situated at a distance of about 170 K.M. from the nation capital New Delhi, It is well connected by Road and Railway. The temperature will be very pleasant around 25<sup>0</sup>C-28<sup>0</sup>C. The organizers are confident that the delegates will enjoy a blend of academic pursuits, holy thoughts and natural beauty of the surrounding places. An excursion will be arranged for a trip to Haridwar/Mussoorie after the conference.

### **Indian Society of Biomechanics**

#### **President**

Prof. P. K. Dave  
AIIMS

#### **Vice President**

Prof. S. Pal  
Jadavpur Univ.  
Prof. S. Anand  
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DPRCD

**National Conference on Biomechanics 2009**  
**NCBM2009**  
**(March 7-8, 2009)**  
**Registration Form**  
**(To be submitted latest by Feb 15, 2009)**

Name .....

Designation .....

Address .....

.....

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Tele. Number .....

Email id .....

Whether

i Delivering a invited lecture Yes  No

ii Presenting a paper Yes  No

iii Attending the conference Yes  No

Whether Accomodation is required

i. Date of arrival .....

ii Date of Departure .....

iii Mode of travel .....

Name of accompanying person (if any) .....

.....

Details of demand draft enclosed as Registration Fee

i. Demand Draft No. ....

ii. Dated .....

iii. Amounts (Rs) .....

Signature