

**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 area of research. It involves not only Bio Technologists, but also mathematicians, engineers and doctors 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 Mathematical and Engineering thoughts with clinical interactive. On many recent topics, lectures will be delivered by well known experts from Institutes research centers and companies. These topics include

1. Bio fluid mechanics (including cardio vascular mechanics)
2. Bio solid mechanics (bone, dental, neural)
3. Optimization model in Bio mechanics
4. Image processing in Bio mechanics
5. Modeling and simulation in Bio mechanics
6. Respiratory mechanics with special reference to nano bio systems
7. Genetic Bio mechanics
8. Pharmaco mechanics
9. Sports Biomechanics and  
Any other relevant topic

## **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 Doctors , which will help in generating a variety of interdisciplinary areas, thus strengthening Bio Mechanics Environment.

## **Important dates:**

Abstract Submission deadline:

**Nov 15, 2008**

Notification of Acceptance:

**Dec 15, 2008**

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>
Companies:	<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 Nov 15, 2008 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 Dec 15, 2008.
- ❖ 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:**

**Prof. S. P. Sharma**  
**Head,**  
**Department of Mathematics**  
**Indian Institute of Technology**  
**Roorkee, India**  
**Ph. 01332-285249**  
**E-mail: [sspprfma@iitr.ernet.in](mailto:sspprfma@iitr.ernet.in)**  
**Prof. V. K. Katiyar**

**Organizing Secretary, NCBM 2009**  
**Department of Mathematics**  
**Indian Institute of Technology**  
**Roorkee, India**  
**Ph. 01332-285085, 286374**  
**Email: [ncbm2009@gmail.com](mailto:ncbm2009@gmail.com),**  
**[vktmafma@iitr.ernet.in](mailto:vktmafma@iitr.ernet.in),**  
**[vktmafma@rediffmail.com](mailto:vktmafma@rediffmail.com)**

### **Host city:**

Roorkee, the gateway to Dev Bhumi (Uttaranchal) 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  
IITD

#### **General Secretary**

Dr. R. K. Saxena  
IITD

#### **Joint Secretary**

Dr. J. Sahoo  
MKGBMCB  
Dr. D. Shaw  
IGIPSSD

#### **Finance Secretary**

J. Santosh  
IITD

#### **Executive Members**

Dr. J. B. Banerji  
VKA  
Dr. M. D. Barman  
NIRTARC  
Dr. V. K. Katiyar  
IITR  
Dr. U. Singh  
AIIMS  
Dr. D. Sharma  
DPRCD

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

Name .....

Designation .....

Address .....

.....

.....

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