

Workshop on

# Magnetic Nanomaterials and their Applications

January 27-28, 2009

Organized by

Department of Material Sciences  
S. N. Bose National Centre for Basic Sciences

Block-JD, Sector-III, Salt Lake,  
Kolkata-700 098, India

The interest to research on nanoscale materials have been steadily increasing. Magnetic materials are one of the most important and fastest growing areas of research in the field of nanoscience and technology. Nano-structured magnetic materials-exhibit novel and interesting physical properties, which are not observed in the bulk. Many of these unique properties have significant potential for technical applications in magneto-sensors, bio-sensors, magneto-electronics, data storage, magnetic heads of computer hard disks, single electron devices, micro wave electronic devices and bio-medical equipments.

## Audience and Goals

The intended audiences are young researchers at their Ph.D./Post-doctoral level and faculties from universities, colleges and scientific /industrial laboratories. The goal of the workshop is to provide a basic knowledge of the subject, to present the perspectives and the underlying technologies, as well as to identify important research direction. The workshop will also provide an opportunity to get to know and to interact with senior researchers working on this topic. We hope that it will lead to the establishment of contacts that may result in future research collaborations.

## Scientific sessions include :

- Magnetic nanoparticles, Nanowires, Thin film, Multilayers
- Nanostructured hard and soft magnetic materials, Magnetic semiconductors, oxide materials
- Various magnetoresistances, Spintronics, Exchange-bias, Ultrafast dynamics and spin Torque effect in magnetic nanostructures.
- Magnetic recording, Bio-medical applications, Magneto-electronics, and Magneto-optics
- Micromagnetic calculations and Modeling

## Abstract Submission :

One page abstract in MS-WORD may be submitted for contributory participation (Oral/Poster) within **10th December, 2008** to the e-mail address : [mnta2009@bose.res.in](mailto:mnta2009@bose.res.in)

## Important dates :

- Abstract submission dead line : **10th December, 2008**
- Notification of acceptance of abstract : **15th December, 2008**
- Workshop : **27-28 January, 2009**

## Registration fee :

- For students :Rs. 500/-
- For faculties :Rs. 1000/

## Accommodation and Travel :

Participants are responsible to arrange for their own travel and accommodation. Some rooms are available in our guest house on a first-come-first-served basis.

## Contact Address

MNTA 2009

S. N. Bose National Centre for Basic Sciences

Block-JD, Sector III, Salt Lake,  
Kolkata-700 098, India

e-mail : [mnta2009@bose.res.in](mailto:mnta2009@bose.res.in)

Fax : (033) 2335 3477

Telephone : (033) 2335 5706 / 5707

## Organizing Committee

Kalyan Mandal (Convener)

Pintu Sen

Priya Mahadevan

Sugata Mukherjee

R. Ranganathan

Dipankar Das

Tapobrata Som

Madhuri Mandal

## Speakers

K. M. Krishnan

University of Washington

A. K. Majumdar

S. N. Bose National Centre for Basic Sciences

D. Bahadur

Indian Institute of Technology (Mumbai)

H. Srikanth

University of South Florida

A. K. Raychaudhuri

S. N. Bose National Centre for Basic Sciences

Ong Chong Kim

National University of Singapore

D. Atkinson

Durham University

R. Ranganathan

Saha Institute of Nuclear Physics

K. Mandal

S. N. Bose National Centre for Basic Sciences

V. Srinivas

Indian Institute of Technology, (Kharagpur)

D. Das

UGC-DAE-CSR (Kolkata)

T. Som

Institute of Physics (Bhubaneswar)

T. K. Nath

Indian Institute of Technology (Kharagpur)

B. K. Chaudhuri

Indian Association for the Cultivation of Science

<http://www.bose.res.in>