

## NATIONAL ADVISORY COMMITTEE

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B. K. SHARMA, UNIVERSITY OF RAJASTHAN, JAIPUR  
A. K. SOOD, IISC, BANGALORE  
O. N. SRIVASTAVA, BHU, VARANASI  
J. V. YAKHMI, BARC, MUMBAI

## LIST OF INVITED SPEAKERS

S. ANNAPOORNI, DELHI UNIVERSITY  
D. K. AWASTHI, IUAC, DELHI  
D. BAHADUR, IIT, MUMBAI  
B. L. V. PRASAD, NCL, PUNE  
P. CHADDAH, IUC, INDORE  
G. P. DAS, IACS, KOLKATA  
B. N. DEV, IACS, KOLKATA  
K. B. GARG, UNIVERSITY OF RAJASTHAN, JAIPUR  
D. G. KANHERE, UNIVERSITY OF PUNE, PUNE  
B. R. MEHTA, IIT, DELHI  
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P. K. SEN, SGSITS, INDORE  
B. K. SHARMA, UNIVERSITY OF RAJASTHAN, JAIPUR  
O. N. SRIVASTAVA, BHU, VARANASI  
Y. K. VIJAY, UNIVERSITY OF RAJASTHAN, JAIPUR  
J. V. YAKHMI, BARC, MUMBAI

YEARS (1935-2010)

## PATRONS

Prof. Aditya Shastri  
Vice-Chancellor

Prof. Sulabha K. Kulkarni  
Pro Vice-Chancellor

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Dr. Saurabh Dalela

Co-Convener  
Dr. Ghanshyam Sharma

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Dr. Saral Kumar Gupta  
Mrs. Pooja Bhambhani

## MAILING ADDRESS

Organising Secretary, NSMAT-2011  
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Website: www.banasthali.org

National Symposium on  
Materials for Advanced Technology

**NSMAT-2011**

**March 27-29, 2011**



Accredited 'A' by NAAC



Organized by :  
**School of Physical Sciences**  
Banasthali University  
Banasthali - 304022 (Rajasthan) INDIA

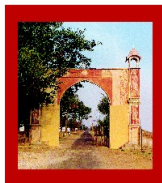
### About Banasthali University

Banasthali is a unique, fully residential women's university which offers an integrated system extending from the primary to the Ph.D. level. The origin of Banasthali is unique in more ways than one. Banasthali owes its existence neither to the zeal of an educationist, nor to that of a social reformer. It is also not the creation of a Philanthropist's purse. It has arisen like the fabled phoenix from the ashes of a blossoming flower Shanta Bai that had withered before its bloom. It is a spontaneous filling up of the vacuum caused by Shantabai's death. It was on October 6, 1935 that Smt. Ratan Shastri and Pandit Hiralal Shastri founded Banasthali to fill up the vacuum caused by the sudden death of their highly talented and promising daughter Shantabai. They had high expectations that she would work for women's problem when she would grow up. Love, eternal love has been the fountainhead of all the thinking and action and this spirit has been the motivating force.

Over these seventy five years Banasthali has developed into a National Centre for women's education. Banasthali's educational programme aims at an all-round development of the student's personality. To achieve its objective of 'synthesis of spiritual values and scientific achievements of the East and the West', it has evolved Five-fold Educational Programme (panchmukhi) comprising of the following aspects: (i) Physical, (ii) Practical, (iii) Aesthetic, (iv) Moral and (v) Intellectual. This way the students develop an integrated and balanced personality.

### About Department of Physics

The Department is running postgraduate program in Physics since 2005, it has earned a good reputation of being an important centre for quality education. The faculty members are actively engaged in research projects and the students, besides studying the regular courses, are



provided adequate exposure of frontier research in Physics by way of summer training at various research organizations like BARC Mumbai, RRCAT Indore, NPL New Delhi, IUAC New Delhi, IPR Gandhi Nagar, CSIO Chandigarh, WIHG Dehradun etc. The Department offers PhD programme in various thrust areas of experimental as well as theoretical Physics. The Department of Physics has adequate modern research facilities.

### Scope

The symposium aims at bringing together the scientific community for the exchange of knowledge in field of advanced materials. The symposium will cover different aspects of the advanced materials including synthesis, fabrication, characterization, theory, modeling and applications. With this, we seek to provide an opportunity to the participants to promote research activities through the swapping of novel ideas and extending collaborations. The symposium will present an overview of the latest developments in frontier areas of material science. The program will include plenary, invited talks and poster presentations.

### Topics to be covered

- Nanomaterials: synthesis and characterization using advanced Techniques
- Nano-engineered Materials: fabrication and applications
- Nano-photonics and plasmonics
- MEMS and NEMS
- Surfaces, interfaces and thin films
- Self-assembly in soft matter and biology
- Conducting polymers and molecular materials
- Hybrid and functional nanomaterials
- Glasses
- Strongly electron correlated materials
- Magnetism and spintronic materials
- Simulation Tools
- Computational Material Science
- Ab-Initio Calculation in Quantum Chemistry/Atomic Physics

In view of the immense potential of the Nanotechnology, the aim of the symposium is to provide a meaningful exchange of ideas to the development and advancement of Material Science.

### Registration

Participants are requested to register in advance. The enclosed registration form or its photocopy may be filled and sent duly forwarded by the Head of the Department/ Institute along with other details. Conference proceedings will be published by Banasthali University. Interested faculty members/research scholars should submit their abstract by 15th Feb 2011 and full length paper by 10th March 2011. The accepted paper will have to be presented in the form of poster (size 1m x 1m).

### Deadlines

Abstract submission	15th February 2011
Acceptance of Participation	28th February 2011
Paper submission:	10th March 2011
Registration	15th March 2011

### Registration fee

Faculty members	1000/-
Research Scholar	800/-
Post Graduate students	200/-

Demand draft must be drawn in favor of Secretary, Banasthali University payable at Banasthali Vidyapith, Newai

### Accommodation

Accommodation will be provided in the University Guest House at nominal charges.

### How to Reach Banasthali University

Banasthali is situated approximately 70 Kms. from Jaipur on the way to Kota. Frequent Bus service is available for Banasthali University campus / Newai from main bus stand (Sindhi Camp) Jaipur. Conveyance is available at Banasthali Newai (Western Railway, Jaipur Kota broad gauge line) Railway Station. Banasthali is just 59 Kms from Jaipur (Sanganer) Airport.

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REGISTRATION FORM

(Please fill in this form (or its Xerox copy or download it from our web site)  
and return as soon as possible, but not later than 15 March 2011).

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organisation: \_\_\_\_\_

Area of Research/Teaching: \_\_\_\_\_

Title of the Paper: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

I require accommodation for \_\_\_\_\_ persons from  
March \_\_\_\_\_ to \_\_\_\_\_ 2011.

I am enclosing a Demand Draft no. \_\_\_\_\_ of  
Rs. \_\_\_\_\_ dated \_\_\_\_\_ in the favour of  
"Secretary, Banasthali University" payable at Banasthali  
Vidyapith/Jaipur drawn on \_\_\_\_\_.

Date \_\_\_\_\_ Signature \_\_\_\_\_

Forwarded by: \_\_\_\_\_

(With Seal)