

UGC - DBT - DST Sponsored

National Seminar & Workshop

On

# Nanotechnology: Today and Tomorrow

28<sup>th</sup> & 29<sup>th</sup> Feb. 2016

INNERVATE

2016



Organized by  
Shiksha Mandal's  
**Jankidevi Bajaj College of Science, Wardha**  
Jamnalal Bajaj Marg, Civil lines,  
Wardha-442001(M.S.)  
Ph./Fax. 07152-230515  
Website: [jbsw.shikshamandal.org](http://jbsw.shikshamandal.org)



## :: Motto of the Event ::

The little word "nano" is entering itself into our consciousness because of its big potential. Even though the field of Nanotechnology is much popular worldwide, it is quite recently that Indian industry has started realizing the commercial viability of Nanotechnology. The scope and application of nanotechnology is tremendous and mind-boggling and it is one of the most coveted career options available to science and engineering graduates. It is an apt career for those who have a scientific bent of mind and a passion for solving mysteries of the minutest molecules. Many scientific institutions have undertaken Research and Development (R&D) in this field. India has more than 100 industries and 50 institutes engaged in nanotechnology R&D with most of the efforts focusing on chip design, nano-medicine and nanomaterials. Therefore, in order to promote awareness and understanding of the nanoscience, nanotechnology among students, researchers and teachers, our institute is organizing a one day National Seminar followed by one day Workshop.

## Invited Speakers in Seminar



**Prof. Ram Pal Tondon**  
Former Head,  
Dept. of Physics  
& Astrophysics  
University of Delhi

**Research Areas:**  
Semiconductors, Synthesis and Characterization of PZT ceramics and lead titanate based thin films, Quantum dots, Polymer and Organic Solar Cells, Ferroelectric ceramics for Oceanography, Biomedical and consumer electronics

**Publications:** 190 papers  
**Patent:** 1 **Books:** 4  
**Awards & Honour:** National Award on Ferroelectrics by Pt. Ravi Shankar University, Raipur. Chief Patron of Electron Microscope Society of India, Advisory Member of Centre of Nanoscience & Technology Research (CNTR), Gujarat.  
**Title of the Talk:** "Challenges & Achievements of 21<sup>st</sup> Century"



**Dr. Bharat B. Kale**  
Director,  
Center for Materials for  
Electronics Technology  
(C-MET), Pune

**Research Areas:**  
Nanocrystalline materials, glass nanocomposites, conducting polymers and hierarchical nanostructures for applications in photonics, magneto-optics, hydrogen production, flexible sensors, flexible solar cells, lithium ion batteries.

**Publications:** 190 (Impact factor 5-11)  
**Patents:** 30 (2 US)  
**Awards & Honour:** Nominated for Shanti Swarup Bhatnagar Award, MRSI Gold Medal Awardee, Fellow of Maharashtra Academy of Science (FMACS).

**Title of the Talk:** "Overview of Nanostructured Materials and their applications"



**Dr. Absar Ahmad**  
Principal Scientist  
National Chemical  
Laboratory (NCL), Pune.

**Research Areas:**  
Nanotechnology, Bio-Nanoscience, Bioinspired synthesis of metal, Semiconductor and Oxide nanosystems using fungal and plant extract media, Studies on Elucidation and Control of biomolecular process and mechanism and Synthesis of triangular gold nanoparticles.

**Publications:** 90 papers (Impact factor 3.5 - 36.4)  
**Patents:** 15  
**Awards & Honour:** VASVIK Award in the area of Biological Science and Technology, Scientist of the year Award of NCL Research Foundation and Shome Memorial Award, Editor of Kavaka Journal of Micological Society of India.

**Title of the Talk:** "Nanomaterials and future drugs from fungal endophytes"

## Registration Procedure

### Offline Mode

The mode of payment for event(s) will be through demand draft (DD) of any Nationalized Bank drawn in favour of **Principal, Jankidevi Bajaj College of Science payable at Wardha**. DD and registration form should reach the organizers within time via post at college address. **Participant also need to inform the confirmation of payment through this mode by mailing the scan copy of DD along with the registration form to event email ID to confirm registration in the event(s).**

### Online Mode

The mode of payment for event(s) will be through NEFT to the following account:  
Bank : Punjab National Bank, Wardha  
IFSC Code: PUNB0617900  
MICR Code: 442024021  
Account No.: 0467010100027936  
**Confirmation of participation will only be considered after receiving the UTR No. of NEFT transaction and scan copy of registration form on email.**

## Registration Fee

Participant	Seminar	Seminar and Workshop
Research Scholar & PG Student	₹ 700/-	₹ 2000/-
Faculty and Other	₹ 1000/-	₹ 2500/-

## Organiser

### Patron

**Shri. Sanjay Bhargava**  
Chairman  
Shiksha Mandal,  
Wardha

### Convener

**Dr. Om Mahodaya**  
Principal  
Jankidevi Bajaj College of Science,  
Wardha

### Organizing Secretary

**Dr. S. V. Bawankar**  
Jankidevi Bajaj College of Science,  
Wardha

### Joint Secretary

**Dr. P. F. Dhabarde**  
Jankidevi Bajaj College of Science,  
Wardha

## Important Dates

**Last date for submission of Abstracts of posters**

7<sup>th</sup> Feb. 2016

**Acceptance intimation**

10<sup>th</sup> Feb. 2016

**Last date of registration  
(Seminar and Workshop)**

15<sup>th</sup> Feb. 2016 (Payment via NEFT)

20<sup>th</sup> Feb. 2016 (Payment via DD)

## Poster Presentation

Abstracts are invited for the poster presentation session **on the day of seminar**. Abstracts should be limited to one page of text and should be in .doc/.docx/.pdf formats. Graphs or figures can also be included, if required. References should appear on the bottom of the page. Abstracts must be communicated to [innervate16nano@gmail.com](mailto:innervate16nano@gmail.com) within time. Selection of abstracts will be in accordance with the themes of the seminar and late submissions will not be considered. Selected abstracts for the poster presentation will be intimated via email. The selection of abstracts for Seminar by organizing committee would be final and binding.

## Themes for Poster Presentation

- **Nanomaterials**
- **Nanotechnology in life sciences**
- **Nanoelectronics**
- **Nanophotonics**
- **Computational Nanotechnology**
- **Nanocharacterization**
- **Nanotechnology for Energy and Environment**
- **Nanotechnology in construction**
- **Nanotechnology in Agriculture**
- **Commercialization, Safety and Societal Issues of Nanotechnology**

## Attractive prizes for the best posters

### Format for Abstract Submission

Margins: Left 1.5 inch, all other sides 1 inch; Title: Times New Roman Font 14pt. Bold, Centered; Author(s): Times New Roman Font 10pt., Bold, Centered; Organization(s): Times New Roman Font 10pt., Centered; email: Times New Roman Font 10pt., Centered; Body part: Times New Roman Font 12pt. with single spacing, Key word: Times New Roman Italic Font 10pt., Centered.

## About the Seminar

**Date: 28th Feb. 2016**

**Time: 9 a.m. to 5 p.m.**

The aim of the National Seminar is to bring together students, faculties, scientists, engineers and stake holders from academia, industry and other organizations working in the field of nanoscience and nanotechnology to discuss new and exciting advances and scope in the field. This Seminar will bring together chemists, physicists, engineers, biologists, biochemists and material scientists at the forefront of the science. Seminar will cover the present and future aspects of the revolutionary nanotechnology.

The one day seminar will feature the invited talks by eminent scientist from the topmost recognized research institutes of the country and the interactive poster presentations by the participants. Themes for poster presentations have been selected to accommodate wide range of interests to facilitate interdisciplinary interactions.

## About the Workshop

**Date: 29th Feb. 2016**

**Time: 9 a.m. to 5 p.m.**

Workshop aims to acquaint the participants with simple experimental techniques based on wet chemical synthesis of nanomaterials. These techniques are routinely used in each and every domain. The participants will be exposed to state-of-the-art in the field. Mainly, the participants will witness the live demonstration of the synthesis of metallic nanoparticles, metal oxide nanoparticles, nano composites, core-shell nanostructures, carbon nano systems etc. by the recognized scientist from reputed research institutes. Special parallel sessions are also kept for life science and physical science participants for fruitful interactions with experts.

**Seats for Workshop: 50**

## Eligibility for both Events

**PG students, research scholars, faculties and research associates from related domain.**

**Note :**

- **Participants may register for one day event of National seminar as well for two day event of seminar & workshop.**
- **Registration in the workshop will only be allowed to the seminar participant.**

## Address for Correspondance

**Organizing Secretary (Innervate 2016)**  
**Jankidevi Bajaj College of Science, Wardha**  
Jamnalal Bajaj Marg, Civil lines, Wardha - 442001(M.S.)  
Helplines : 9423424803, 9579194076  
email : [innervate16nano@gmail.com](mailto:innervate16nano@gmail.com)

## ABOUT THE ORGANISER

### Parent Organization

Shiksha Mandal is the pioneer educational organization of Central India established in 1914 by late Shri Jamanalal Bajaj, Shri Shrikrishanadas Jajoo and others. This organization has actively participated in the freedom struggle under the guidance of Father of the Nation Mahatma Gandhi. Its foundation was based on principles of Gandhiji and journey has continued with consistency since 101 years. The first education conference in 1937 was held at Shiksha Mandal under the chairmanship of Mahatma Gandhi.

Hon'ble Pranab Mukherjee, President of India, presided over the centenary celebration of this organization on 26th November 2014 along with Hon'ble C. Vidyasagar Rao, Governor of Maharashtra, Shri Devendra Fadanvis, Chief Minister of Maharashtra, Shri Nitin Gadkari, Union Minister, Govt. of India and Shri Rahul Bajaj, President of Shiksha Mandal.

Shiksha Mandal is successfully managing nine colleges at present in Maharashtra and Madhya Pradesh.

### Host Institute

Jankidevi Bajaj College of Science, Wardha was founded in 1962 by Shiksha Mandal, Wardha. Currently it is headed by Shri Rahul Bajaj, Chairman, Bajaj Auto Ltd.

The college has campus of 13 acres. It imparts science education to about 1900 students from Junior College to Ph.D. It provides graduation in Physics, Chemistry, Mathematics, Botany, Zoology, Microbiology, Electronics, Computer Science and Biotechnology. College also offers P.G. programmes in Chemistry, Botany, Microbiology, Biotechnology & Zoology along with Ph.D programmes in Botany and Chemistry.

The college provides adequate infrastructure and learning resources to achieve its mission of quality education. It has a very good library and well equipped laboratories. The college has several extension and outreach programmes running parallel with academic curricula. Several students are continuously being placed at various fields and college has regular tie up with Wipro, Corning India, NCCS Pune, etc.

UGC recognized Jankidevi Bajaj College of Science, Wardha as a 'College With Potential for Excellence' (CPE). Institution has 'Star College' status by Department of Biotechnology, Govt of India. Institute has been reaccredited 'A' grade by NAAC in the third cycle with the CGPA of 3.21 on four point scale.

### Wardha City

The district Wardha acknowledged as Gandhi city is named after the river Wardha. The father of the Nation Mahatma Gandhi spent the later part of his life (1936-1946) here and guided the "Quit India' movement as part of freedom struggle. Wardha was the political capital of India during pre-independence era. The well known reformers Acharya Vinoba Bhave and Shri Jamnalalji Bajaj also belong to this city. Sevagram Ashram, the place with historical importance, Vinoba's Paramdham Ashram, Gitai Mandir, Vishwa Shanti Stoop and Institute of Gandhian Studies are located within proximity of 5 kms. of college.

Wardha is also known as a hub for education. The important higher education centres at Wardha are - Mahatma Gandhi Institute of Medical Sciences (Sewagram), DMIMS, MG International Hindi University and Bajaj Science Centre to name a few.

Wardha is about 75 Kms. from Nagpur and can be reached within 1.5 hours by rail or road.

### Advisory Committee

**Dr. Anjan Naidu**, Co-ordinator, Faculty of Science, RTM Nagpur University, Nagpur.  
**Dr. K. G. Rewatkar**, Associate Professor, Dr. Ambedkar College, Nagpur.  
**Dr. Alka Chaturvedi (F.I.A.A.T.)** Professor & Head, Dept. of Botany, RTM Nagpur University, Nagpur.  
**Dr. (Mrs.) M. S. Sastry**, Professor and Head Dept. of Zoology, RTM Nagpur University, Nagpur.  
**Dr. H. D. Juneja**, Professor and Head Dept. of Chemistry, RTM Nagpur University, Nagpur.  
**Dr. P. M. Tumane**, Professor and Head Dept. of Microbiology, RTM Nagpur University, Nagpur.  
**Dr. P. M. Gade**, Professor and Head Dept. of Physics, RTM Nagpur University, Nagpur.  
**Dr. S. J. Dhoble**, Professor, Department of Physics, RTM Nagpur University, Nagpur.  
**Dr. G. S. Khadekar**, Professor and Head Dept. of Mathematics, RTM Nagpur University, Nagpur.  
**Dr. Satish Sharma**, Professor and Head Dept. of Electronics, RTM Nagpur University, Nagpur.  
**Dr. S. S. Pande**, Director, Rajiv Gandhi Biotechnology Centre, RTM Nagpur University, Nagpur.

Dr. L. P. Dalal  
Dr. P. V. Tekade  
Dr. U. A. Bidwai  
Mr. G. V. Lakhotiya

### Co-ordinators

Dr. S. S. Khandare  
Dr. Mrs. N. P. Mohabanshi  
Mr. M. D. Bansinge  
Dr. P. A. Saudagar

### Steering Committee

Prof. G. N. Wagh  
Prof. R. V. Chouguley  
Prof. V. B. Patil  
Dr. V. V. Shinde  
Dr. V. M. Ghodki  
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Dr. S. H. Bagade  
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