



**International Conference on
Powder, Granule and Bulk Solids:
Innovations and Applications**
November 28-30, 2013



Thapar University, Patiala, India



www.pgbsia2013.com



INTRODUCTION

On November 28-30, 2013, International Conference on “Powder, Granule and Bulk Solids: Innovations and Applications” (PGBSIA 2013) is going to be held in the lush green Thapar Technology Campus in the historic, royal city of Patiala, India. The conference is being organized by the DST-FIST and UGC-SAP sponsored Department of Mechanical Engineering of Thapar University. The areas of interests cover various fundamental and applied aspects of particle technology, from nano to bulk to ore: particle synthesis, preparation, characterization, measurement, instrumentation, storing, conveying, processing, modelling, scale up procedures, simulation techniques, dust and environmental hazards, lung deposition and their industrial applications.

KEY FEATURES

- Strong Academic-Industry participation from around the world
- High quality paper and poster sessions; abstracts and papers will be peer-reviewed by international experts
- Selected papers to be published in a special issue of International Journal with impact factor: Particulate Science and Technology, Taylor & Francis
- Several workshops to be conducted by overseas and Indian experts in specialized areas, covering fundamentals, designs, scale-up, industry case studies etc

WHO SHOULD ATTEND

- Academician (from Universities and Institutes)
- Researchers, scientists, Ph.D students and research scholars
- Design engineers and consultants
- Plant owners, managers, operators and maintenance personnel
- Manufacturers, suppliers/contractors for instruments and systems
- Members of professional bodies





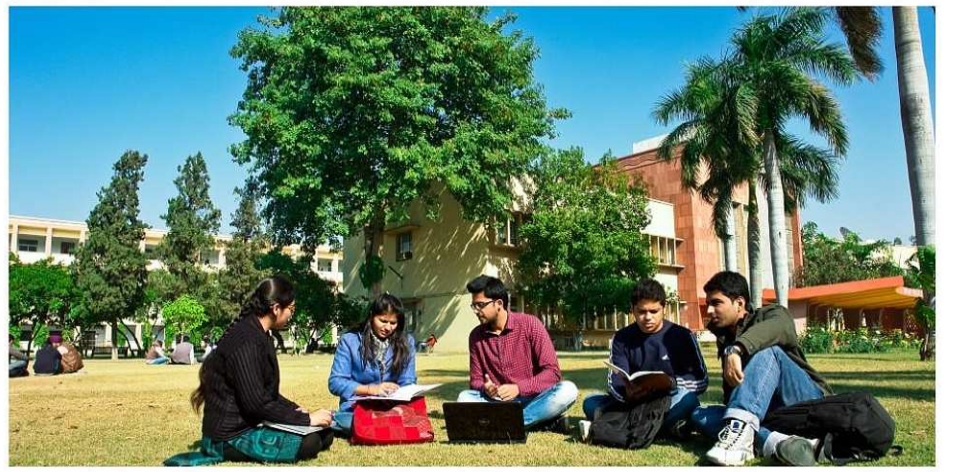
BENEFITS OF ATTENDING

- Increased awareness of academic and scientific researchers about the areas of industrial applications, problems, requirements, equipment/instrumentation
- Future Research and Development directions and research projects
- Increased awareness of industry users/suppliers about the areas of academic achievements, expertise and capabilities

TOPICS

- Particle formation, synthesis, processing, modification (agglomeration, coating, attrition, compaction) and characterization
- Contact mechanics of particle interaction, particle adhesion and cohesion
- Bulk solids technology - storing, processing, conveying: belt conveying, slurry flow, pneumatic conveying and other modes of transport, hoppers and silos, crushing, segregation
- Aerosol and electro-sprays
- Dust hazards: explosion, suppression, extraction and prevention
- Interactions between particles and environment, effect on human health, industrial hygiene and workplace safety
- Fluidization, multiphase flows and other fluid-particle and particle-particle systems, including applications in heat transfer, friction, lubrication, wear, powder metallurgy, medical use
- Modelling and simulation techniques applied to all of the above, including CFD for multiphase flow and Discrete Element Methods (DEM), imaging of particle and bulk flow
- Applications of particle technology in pharmaceuticals, chemicals, foods, electronics and sensors, pigments, minerals, agricultural, structural and functional materials and in environmental and energy related industries





CALL FOR PAPERS

Authors wishing to present a paper in the Conference are invited to submit original and unpublished research work covering any of the conference topics. People working in industry are welcome to contribute innovative (novel) case studies. Papers will be of maximum 6 pages. For details about procedure for paper and poster submission and sample abstract and paper formats, visit the conference website.

CONFERENCE REGISTRATION

India

| | Regular | Late |
|-------------------------|----------|-----------|
| Faculty and Researchers | Rs. 4500 | Rs. 5000 |
| Student | Rs. 2000 | Rs. 2500 |
| Industry | Rs. 8000 | Rs. 10000 |

International

| | Regular | Late |
|-------------------------|---------|---------|
| Faculty and Researchers | USD 300 | USD 350 |
| Student | USD 200 | USD 250 |
| Industry | USD 500 | USD 600 |

Registrations details are available on the conference website.

IMPORTANT DATES

| | |
|--|-------------------------|
| Last date for submission of Abstract | : April 8, 2013 |
| Notification for acceptance of Abstract | : April 29, 2013 |
| Submission of full paper | : June 10, 2013 |
| Notification of comments (if any) to the authors | : July 15, 2013 |
| Authors to submit revised paper | : August 5, 2013 |
| Final acceptance of paper | : August 19, 2013 |
| Regular Registration before | : September 30, 2013 |
| Late Registration | : October 1 to 31, 2013 |





TRAVEL AND ACCOMMODATION

Patiala is well connected to rest of the country through Air, Rail and Road. The city is about 250 km to the north of Indian capital New Delhi and 70 km to the south of Chandigarh. Nearest major International Airport is the Indira Gandhi International Airport at New Delhi. It takes about 5 hours from Delhi by bus/car/train. Delegates can send their requests for arrangement of accommodation (in University Guest House/Hostels/Hotels – subject to availability/first-come-first-serve basis). The accommodation expenses are to be borne by the participants.

SPONSORSHIP OPPORTUNITIES

The successful running of a conference is not complete without the inclusion of sponsors. Sponsors will be sought at different levels. The organizing committee is pro-actively seeking both national and international sponsors leading up to the conference. For details, refer to the conference website.

SIGHT SEEING

At the end of conference, there will be one day optional sight seeing trip to Shimla, a beautiful hill station in the north-western ranges of the Himalayas in the state of Himachal Pradesh.

THAPAR UNIVERSITY

Thapar University came into existence in 1956 as an engineering college named Thapar Institute of Engineering and Technology Institute to produce high quality professionals to cater for the needs of newly Independent India. The institute was granted full autonomy and status of a Deemed University in 1985 by the University Grant Commission. The University offers academic programs at undergraduate, post graduate and doctorate levels at various disciplines. Since its inception, the University has grown in size and activities with its alumni excelled within the industry, academics and administration both in India and abroad.



CONFERENCE COMMITTEE

- Patron : Dr. K.K. Raina, Director, Thapar University
Conference Chair : Dr. S.K. Mohapatra, Senior Professor and Dean of Academic Affairs, Thapar University
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Organizing Secretary : Dr. S.S.Mallick, Assistant Professor, Thapar University

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Dr. Rui Xiao, Professor, Southeast University, China

LOCAL ORGANIZING COMMITTEE : Faculty and Staff, Mechanical Engineering Department, Thapar University

CONTACT

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