

Sponsorship opportunities

We solicit sponsors for the symposium as well as for the various events planned during APT 2009. We shall be glad to discuss details with our potential sponsors.

Sponsorship	Amount (Rs. Lakhs)	Entitlements
Platinum	5	<ul style="list-style-type: none"> Corporate logo featured on conference website with hyperlink to sponsoring organization's website and on all marketing/publicity material for the conference including all signage Full page color advertisement in the conference souvenir (material to be supplied by sponsor) Complimentary double exhibition booth 5 complimentary conference registrations
Gold	3	<ul style="list-style-type: none"> Corporate logo featured on conference website and on all marketing/publicity material for the conference including all signage Full page color advertisement in the conference souvenir (material to be supplied by sponsor) Complimentary standard (3mx3m) exhibition booth 3 complimentary conference registrations
Silver	2	<ul style="list-style-type: none"> Corporate logo featured on conference website and on all marketing/publicity material for the conference including all signage Full page color advertisement in the conference souvenir (material to be supplied by sponsor) 1 complimentary conference registration

Technical Exhibition (PARTECINDIA 2009)

There is an international technical exhibition being organized on this occasion. We request industries, equipment suppliers, research institutions, consulting companies and other organizations both in India and abroad for showcasing their processes, products, instruments, equipments, expertise and achievements during APT 2009.

We request a contribution of Rs. 50,000 (fifty thousand rupees) only for a standard 3mx3m carpeted booth in the exhibition hall equipped with electrical power socket, lights, three side wall partitions, table and chairs. This also includes one complimentary registration for APT 2009. We shall be glad to discuss special discounts with those companies and organizations who would like to book bigger booths and/or larger exhibition area. Detailed plans about the exhibition area layout will be made available on our website (www.appt2009.org). All interested are requested to contact the secretariat for more details (contact@appt2009.org).

Please contact:
 Dr. Pradip, Chairman, APT 2009 and Head, Process Engineering Innovation Lab
 Tata Research Development and Design Centre (A Division of Tata Consultancy Services Ltd.)
 54B, Hadapsar Industrial Estate, Pune - 411013, India Tel: 20-66086268 / 66086203, Cell: 9850984592 Email: contact@appt2009.org, pradip.p@tcs.com

The Fourth Asian Particle Technology Symposium (APT 2009)

"Innovations in Particle Technology"

and

An International Technical Exhibition on Particle Technology (PARTECINDIA 2009)

September 14-16, 2009
 The Ashok Convention,
 Hotel Ashok
 New Delhi, India

Organized by



The Indian Institute of Metals



Indian Institute of Mineral Engineers (IIME)

in collaboration with



The Society of Powder Technology, Japan,



The Association of Powder Process Industry and Engineering, Japan

www.appt2009.org



Invitation

Dear Colleagues

It is a great honour to host the 4th Asian Particle Technology Symposium (APT 2009) in New Delhi, India. It is jointly organized by The Indian Institute of Metals (IIM) and Indian Institute of Mineral Engineers (IIME) in collaboration with The Association of Powder Process Industry and Engineering (APPIE), Japan and The Society of Powder Technology, Japan (SPTJ).

Particle Technology has emerged as a separate discipline in its own right; a body of knowledge which has its own unique paradigm of describing, modelling and controlling phenomena involving a wide variety of discrete entities (for example solid particles including nanoparticles, fluid droplets and air bubbles) and their interaction with the medium (air, water or solvents) under different force fields (shear, compression, flow etc.). Knowledge and expertise of particle technology is extremely important for several industries.

- Mineral processing and metal extraction (iron and steel, aluminium and coal)
- Powder metallurgy
- Cement, concrete, construction and building materials
- Ceramics (tiles, sanitary ware and electronic ceramics)
- Pharmaceutical industry (drug delivery systems)
- Paints, pigments and coatings
- Detergents, cleaning agents and personal care products
- Food processing
- Atomic energy and nuclear fuels
- Engineering polymers (rubber, plastics, carbon black, packaging materials)
- Fertilizers and agrochemicals
- Pulp and paper
- Textiles
- Chemicals
- Semiconductors and electronic materials
- Nanotechnology
- Clean coal combustion and advanced energy systems
- Processing of agro-wastes (biogas and biofuels)

Considering the importance of this field to our industry, a number of experts in particle science and technology worldwide, in particular from Japan and other Asian countries took the initiative of starting the Asian Particle Technology (APT) Series of symposia. The first APT symposium was held in Bangkok, Thailand in 2000, followed by APT 2003 in Penang, Malaysia and APT 2007 in Beijing, China. We have the proud privilege of hosting the 4th symposium in the series that is, APT 2009 in New Delhi, India.

In addition to the technical conference consisting of plenary and invited talks, and presentation of contributed papers related to the theme "Innovations in Particle Technology", we shall be organizing an international technical exhibition called "PARTECINDIA 2009" on this occasion. This mega-event will feature participation of industries drawn from different segments, equipment suppliers, consulting companies, manufacturers of characterization and analytical instruments, suppliers of specialty chemical reagents and organizations/companies providing software tools and process control solutions for the industry.

We cordially invite you to participate in this important international particle technology conference and technical exhibition being organized for the first time in India. Please visit our website (www.appt2009.org) and contact me for more details (contact@appt2009.org). I shall very much look forward to meeting with you in New Delhi in September 2009.

Pradip
Chair, APT 2009 Organizing Committee

Scope of the Symposium

Development of powerful tools and technologies to describe systems containing particles is crucial for the design and optimization of a number of industrial unit operations.

- Production of particles (crystallization, atomization, mechanical activation, synthesis in aerosol flame, sol-gel and microemulsion reactors)
- Comminution (crushing, grinding, high energy milling, attrition and erosion)

- Agglomeration (granulation, pelletization, briquetting, tableting, sintering)
- Bulk powder handling (storage, dust collection and transportation)
- Mixing, granular flow and fluidization
- Roasting, combustion and smelting reduction
- Solid-solid separation (gravity, electrostatic, magnetic and flotation separation)
- Solid-liquid separation (filtration, drying, membrane separation, thickening)
- Colloidal processing (dispersion, flocculation and rheology of suspensions)
- Particle coating and surface modification
- Packing and consolidation of particles in dry/wet conditions
- Recycling and reclamation (electronic waste, tailings management, eco-cements)
- Design of equipment handling powders, emulsions and aerosols
- Modelling and simulation (CFD, DEM, population balances, molecular modelling, Monte Carlo)
- Process optimization and advanced control (measurement, automation and soft-sensors)

A set of mini-symposia on specific themes will be organized as part of APT 2009, in order to facilitate deliberations on certain topical issues of interest and benefit to the industry such as nanotechnology, computational fluid dynamics, modelling related to particle technology, population balance modelling of particulate processing operations, molecular modelling, mechanical activation and advanced process control. We invite abstracts of papers as per the format provided in all facets of particle technology.

Expression of Interest

Please send your contact details either by filling in expression of interest form on our website (www.appt2009.org) or through email (contact@appt2009.org).

Call for Papers - Submission of Abstracts

Authors are requested to submit abstracts latest by **April 25, 2009**. The abstract, prepared as per the guidelines provided on the website, can be submitted on line at www.appt2009.org and/or as an electronic attachment through email (contact@appt2009.org).

Accommodation and Transport

Please note that the special rates for the hotel accommodation at the conference venue (Hotel Ashoka and Hotel Samrat) have been negotiated for the conference delegates. There will be a shuttle available for all the symposium delegates to commute between their respective hotels nearby and the conference venue.

Registration Fee

The registration fee covers the conference proceedings, conference program, lunches and tea breaks. The registration fee does not include accommodation. The registration fees per delegate are listed below. Special discount is available for students. Please contact us for more details.

Industries	Rs. 10000
Research Institutions	Rs. 7500
Academia	Rs. 6000

International Organizing Committee

Prof. Hongchen Gu, China
 Prof. Wei Fei, China
 Dr. Pradip, India
 Prof. Rochim Suratman, Indonesia
 Prof. Satoru Watano, Japan
 Prof. Hiroyuki Kage, Japan
 Prof. Jae Hyung Lee, Korea
 Prof. Wan Ramli Wan Daud, Malaysia
 Dr. Amgalan Minjigmaa, Mongolia
 Prof. Clive Davies, New Zealand
 Prof. Nikolai Lyakhov, Russia
 Prof. Reginal B H Tan, Singapore
 Prof. Duu-Jong Lee, Taiwan
 Prof. W. Tanthapanichakoon, Thailand
 Dr. Vu Ba Minh, Vietnam