

Organizing Committee

Xiaoshu Cai	University of Shanghai for Science and Technology
Hongxun Chen	China Waterborne Transport Research Institute
Jianfeng Chen	Beijing University of Chemical Technology
Yi Cheng	Tsinghua University
Fude Cui	Shenyang Pharmaceutical University
Qingyun Dong	Bettesize Instruments Ltd.
Youwei Du	Nanjing University
Rongze Hu	Central Iron and Steel Research Institute
Yong Jin	Tsinghua University
Chunzhong Li	East China University of Science and Technology
Hongzhong Li	Institute of Process Engineering, CAS
Shuncheng Li	The Hong Kong Polytechnic University
Xingguo Li	Peking University
Chunxi Lu	China University of Petroleum
Shouci Lu	University of Science and Technology Beijing
Guangsheng Luo	Tsinghua University
Guanghui Ma	Institute of Process Engineering, CAS
Zhongjing Ren	Winner Instruments Ltd.
Zhigang Shen	Beijing University of Aeronautics and Astronautics
Yanlin Song	Institute of Chemistry, CAS
Wei Wang	Institute of Process Engineering, CAS
Yanmin Wang	South China University of Technology
Fei Wei	Tsinghua University
Delong Xu	Xi'an University of Architecture and Technology
Peng Yan	Chinese Academy of Meteorological Sciences
Xuchu Ye	Nanjing University of Technology
Fugen Zhang	Omecc Instruments Ltd.
Lide Zhang	Institute of Solid State Physics, CAS
Renjian Zhang	Institute of Atmospheric Physics, CAS
Zhong Zhang	National Center for Nanoscience and Technology
Yuemin Zhao	China University of Mining and Technology
Shuilin Zheng	China University of Mining and Technology

Secretary (general issues):	Wei Ge
Secretary (logistics):	Yunru Bai
Secretary (themes):	Yongsheng Han
	Junwu Wang
	Xinhua Liu
	Limin Wang
Secretary (documents):	Xue Bai

Venue

Beijing International Convention Center (BICC)
No. 8 Beichen Dong Road, Chaoyang District, Beijing 100101, P. R. China



BICC is located in Asian Games Village, a flourishing area of Beijing which has a collection of conference centers, offices, shopping centers and entertainment venues. It is 20 kilometers from Beijing Capital International Airport and 9 kilometers from the city center. It is also very close to the Olympic Games central area, such as The Bird's Nest and The Water Cube.

BICC is a 5 star tourist service unit with 48 different conference rooms. Opened in 1990, the convention center has served almost 1,000 different international and domestic conventions, exhibitions and meetings each year. The exhibition hall is 5,000 square meters large. It is next to North Star Continental Grand Hotel, a 4 star hotel with 538 guest rooms and 5 different styles of restaurants.

	Early bird	Regular	On-site
Individual	USD 600	USD 650	USD 700
Student	USD 400	USD 450	USD 500
Group (≥5)	USD 550	USD 600	USD 650

* the registration fee includes conference reception, lunches and tea breaks (May 19 through 22). Conference dinner is charged separately at 100 USD per person. For more details on transactions and refunding policies, please visit the congress website.

Accommodation

A list of the contracted hotels offering discounted rates for WCPT7 participants can be found at the congress website, together with the booking and payment details.

Exhibition

Exhibitors from industrial and academic organizations are welcome and the details for participation can be found at the congress website.

First Announcement & Call for Papers



7th World Congress on Particle Technology
(WCPT7)
Beijing, P. R. China
May 19-22, 2014



Congress Chairman

Prof. Dr. Jinghai Li
Institute of Process Engineering
Chinese Academy of Sciences
China

Congress Co-Chairmen

Prof. Dr. Junji Cao
Prof. Dr. Yunfa Chen
Prof. Dr. Yulong Ding
Prof. Dr. Qingshan Zhu
Chinese Academy of Sciences
China

Contact Information

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Supporters

-  The Society of Powder Technology, Japan
-  APPIE
The Association of Powder Process Industry and Engineering, Japan
-  Australasian Particle Technology Society
-  China National Petroleum Corporation
-  China Petrochemical Corporation
-  Chinese Academy of Sciences
-  National Natural Science Foundation of China

Other societies in Asia (to be confirmed)

You are also welcome to the 11th International Conference on Fluidized Bed Technology (www.cfb11.org), May 14-17, 2014, Beijing.

Themes & Topics

1. Particle and Particle System Characterization

- Fundamentals
- Instrumentation
- Particle size and shape characterization
- Measurements of structure and chemical composition of single particles
- Measurements of particle velocity and concentration fields
- Rheological characterization of suspensions
- Measurements of interparticle forces
- Measurements of dynamic particle structuring in shear flows
- Particle system monitoring and control
- Standards

2. Particle Design: Formulation and Processing

- Particle formulation and modification
- Colloids, crystallization and precipitation
- Modification and dispersion of particles
- Granulation, compaction, tableting and encapsulation
- Nanoparticles and nanocomposite materials – synthesis, handling and application
- Particle synthesis via self assembly or microfluidics
- New products, devices and technologies

3. Particle-Fluid System

- Fundamentals
- Fluidization and fluid beds
- Pneumatic and hydraulic conveying
- Solid-gas and solid-liquid separation
- Process scaling-up, optimization and control
- Fluid/particle systems in bio, food, material, polymer and pharmaceutical processing
- Fluid/particle reactions in energy and environmental systems

4. Particulate System and Bulk Solids Technology

- Mechanics of particulate media
- Dynamics of granular flow – experiments and modeling
- Classification, dispersion and filtration of particles
- Comminution, attrition and agglomeration in granular flows
- Mixing, blending and segregation
- Drying and dewatering
- Dust explosion and process safety in powder handling
- Process and equipment control, design and scaling-up
- Dynamics of non-fluidized gas-particle flow
- Stresses and arching in hoppers and bunkers

5. Aerosols

- Fundamentals, measurement and characterization
- Aerosol formation, transport and deposition
- Aerosol application in medicine and industry
- Particles in atmospheric science and meteorology
- Source of aeolian sand transport
- Impact of aerosols on environment, health and climate
- Formation, impact and control of PM2.5

6. Modeling and Simulation

- Computational fluid dynamics
- Lattice Boltzmann method
- Discrete element method
- Molecular dynamics
- Population balance models
- Flow sheet modeling
- Multi-scale modeling and computation
- Supercomputing

7. Special Topics

- Particles in geology, soil mechanics and rock mechanics
- Particles in soil science and hydrology: soil erosion
- Particles in pharmaceutical industry and medicine
- Carbon-based particulate material
- Particle technology in biology
- 3D printing
- Particle technology in power engineering
- Particulate solid wastes
- Particle technology in energy science and engineering
- Memorial sessions for founders in the field

WCPT7 at a glance

- Over 1000 expected participants from more than 40 countries all over the world;
- WAPT (The World Assembly for Particle Technology) will meet during the congress for strengthening and expanding the organization;
- A balanced presence of academic and industrial participants and platforms for extensive and in-depth interactions between them;
- A systematic selection of topics covering the full spectrum of particle technology, aiming to catalyze interdisciplinary discussions and emerging of new research directions and technologies;
- Special sessions honoring world leaders in particle technology;
- Accompanying exhibitions from both industries and academic institutions, and excursions to Chinese universities, research institutes and industrial companies;
- Accepted full paper will be published in *Procedia Engineering* of Elsevier, which will hopefully be indexed by CPCI (Conference Proceedings Citation Index).

Plenary Speakers

Liang-Shih Fan, Ohio State University, USA

Chemical looping technology - a particle technology perspective.

Yadong Li, Tsinghua University, China

Metal nanoparticle catalysis.

Anton Middelberg, University of Queensland, Australia

Particles and biology: opportunities and challenges.

Mario Molina, Centro Mario Molina, Mexico

Aerosols and climate change: science and policy.

Pradip, Tata Research Development and Design Centre, India

IT enabled platform for the design and optimization of mineral processing circuits.

Jonathan Seville, University of Surrey, UK

Particle-particle contacts and their influence on system behavior.

David A. Weitz, Harvard University, USA

New routes to particle synthesis.

(more to be confirmed)

Scientific Committee

Rose Amal	The University of New South Wales	Australia
Guohua Chen	Hong Kong University of Science and Technology	China (HK)
Kim Dam-Johansen	Technical University of Denmark	Denmark
Liang-Shih Fan	Ohio State University	USA
Masayoshi Fuji	Nagoya Institute of Technology	Japan
Mojtaba Ghadiri	University of Leeds	UK
John Grace	University of British Columbia	Canada
Stefan Heinrich	Hamburg University of Technology	Germany
Hiroyuki Kage	Kyushu Institute of Technology	Japan
Haim Kalman	Ben-Gurion University of the Negev	Israel
Devang Khakhar	Indian Institute of Technology Bombay	India
Hongming Lin	Taiwan University	China (Taiwan)
Guy Marin	Ghent University	Belgium
Gabriel Meesters	Delft University of Technology	Netherlands
Wolfgang Peukert	University of Erlangen	Germany
Massimo Poletto	University of Salerno	Italy
Pradip	Tata Research Development and Design Centre	India
Sotiris Pratsinis	Swiss Federal Institute of Technology Zurich	Switzerland
Judy Raper	University of Wollongong	Australia
Lothar Reh	Swiss Federal Institute of Technology Zurich	Switzerland
Khashayar Saleh	Compiègne University of Technology	France
Jaap Schouten	Eindhoven University of Technology	Netherlands
Jonathan Seville	University of Surrey	UK
Toshitsugu Tanaka	Osaka University	Japan
Wan Ramli Wan Daud	University Kebangsaan Malaysia	Malaysia
Chi-Hwa Wang	National University of Singapore	Singapore
Joachim Werther	Hamburg University of Technology	Germany
Richard Williams	University of Birmingham	UK
Aibing Yu	The University of New South Wales	Australia

(more to be confirmed)

Deadlines

Abstracts due:	October 31, 2013
Abstracts acceptance due:	December 31, 2013
Pre-registration (online):	February 28, 2014
Full paper due:	March 31, 2014
On-site registration:	May 18, 2014

* for details of the submission procedure, please visit the congress website.

