

## 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   | Bettersize 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          |
| Shulin Zheng   | China University of Mining and Technology          |

Secretary (general issues): Wei Ge

Secretary (logistics): Yunru Bai

Secretary (thematic): Yongsheng Han

Junwu Wang

Xinhua Liu

Limin Wang

Secretary (documents): Xue Bai

## Venue

China National Convention Center (CNCC)  
No. 7 Tianchen East Road, Chaoyang District, Beijing 100105 China



Capturing the heart precinct of Beijing Olympic Green, CNCC is right next to the Bird Nest (China National Stadium for the Olympics opening and closing ceremony), the Water Cube (National Aquatics Center) and National Indoor Stadium.

It's only 30 minutes drive to the airport and the subway station is connected with CNCC's basement which enables people to quickly go to the city center, the airport, the Beijing railway station, the central business district, China's silicon valley Zhongguancun, and many tourist attractions such as Tian'anmen Square, Forbidden City and Summer Palace. It takes only one hour from CNCC to the renowned Great Wall and Ming Tombs.

The accommodation is plentiful. Within 1 km radius, there are 3 five-star hotels, 7 four-star hotels and more than 10 three-star hotels and apartments, totaling over 5,000 rooms. Dining, shopping and entertainment facilities are easily available nearby.

## Registration

|            | early bird | regular | on-site | daily   |
|------------|------------|---------|---------|---------|
| individual | USD 600    | USD 650 | USD 700 | USD 270 |
| student    | USD 400    | USD 450 | USD 500 | USD 240 |
| group (>5) | USD 550    | USD 600 | USD 650 | USD 240 |

\* 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 conference website.

## Accommodation

A list of the contracted hotels offering discounted rates for WCPT7 participants can be found at the conference 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 conference 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  
Institute of Earth Environment  
Chinese Academy of Sciences  
China


Prof. Dr. Yunfa Chen  
Institute of Process Engineering  
Chinese Academy of Sciences  
China


Prof. Dr. Yulong Ding  
Institute of Process Engineering  
Chinese Academy of Sciences  
China

Prof. Dr. Qingshan Zhu  
Institute of Process Engineering  
Chinese Academy of Sciences  
China

### Supporters


 The Society of Powder Technology  
Japan  
 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)

### Contact Information

Wei Ge, Yunru Bai  
Chinese Society of Particology  
Beijing 100190, China  
Tel: 86-10-82629146  
E-mail: wcpt7@home.ipe.ac.cn  
Conference website: www.wcpt7.org

## 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 and sand transport
- Impact of aerosols on environment, health and climate
- Formation, impact and control of PM<sub>2.5</sub>

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

### 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;
- Abalanced 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 emerge of new research directions and technologies;
- Special sessions honoring world leaders in particle technology;
- Accompanying exhibitions from both industries and academic institutions, and post-conference excursions to Chinese universities, research institutes and industrial companies;
- Accepted full-paper presentations will be published in *Procedia Engineering of Elsevier*, which will be indexed by CPCI (Conference Proceedings Citation Index™).

## 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 more details of the submission procedures, please visit the conference website.

## 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            |
| 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    |
| 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  | Kobe Institute of Health                       | Japan          |
| Wan Ramli Wan Daud | University Kebangsaan Malaysia                 | Malaysia       |
| Chi-Hwa Wang       | National University of Singapore               | Singapore      |
| Joachim Werther    | Hamburg University of Technology               | Germany        |
| Aibing Yu          | The University of New South Wales              | Australia      |

(More to be confirmed)

## Plenary speakers

|                  |   |           |
|------------------|---|-----------|
| Liang-Shih Fan   | Ohio State University                       | USA       |
| Yadong Li        | Tsinghua University                         | China     |
| Anton Middelberg | University of Queensland                    | Australia |
| Mario Molina     | Centro Mario Molina                         | Mexico    |
| Pradip           | Tata Research Development and Design Centre | India     |
| Jonathan Seville | University of Surrey                        | UK        |
| David A. Weitz   | Harvard University                          | USA       |

(More to be confirmed)

