

## First Circular and Call for Papers



### UK–China International Particle Technology Forum VIII (PTF8)

[http:// ptf8.csp.org.cn/](http://ptf8.csp.org.cn/)

10-12 July 2021      Dali, Yunnan, China

#### 1. Welcome Address

##### Dear Colleagues:

On behalf of the organizing committee, we are pleased to announce the UK–China International Particle Technology Forum VIII (PTF8) to be held in Dali, a city with wind, flower, snow and moon of China from 10 - 12 July 2021. The conference will include the active discussions on the prospective ideas, creative methods, revolutionary technology, new solutions and fundamental theories of the particle technology to provide solutions to challenges of energy, environment, healthcare and sustainable development, which can create a better future. Moreover, the conference will also enhance international consensus, facilitate more effective communications, and establish new and strengthening existing collaborations among academics, students, engineers and technological practitioners by invited lectures, oral presentations and poster presentations, in which English will be the official language. Besides, the conference will also be featured by Young Scientist Seminar, Youth Presentation Awards and Best Poster Awards. We are looking forward to seeing you all in Dali at the PTF8.

##### Co-Chairs:



Fei Wei



Prof. Fei Wei (China), Tsinghua University  
Chair of the Energy Particulate Materials Professional  
Committee of CSP



M. Bradley



Prof. Michael Bradley (UK), University of Greenwich  
Chair of the Particle Technology



## 2. Theme

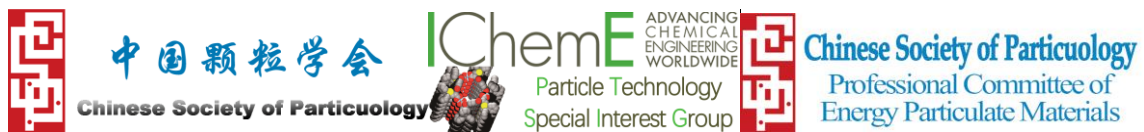
Particle technology benefits mankind, low carbon manufacturing shapes the future.

## 3. Host Organizations

Chinese Society of Particuology (CSP), IChemE Particle Technology Special Interest Group (IChemE PTSIG)

Professional Committee of Energy Particulate Materials of CSP (CSP PCEPM)

Tsinghua University, University of Greenwich



## 4. Co-organizations

Institute of Process Engineering, CAS (China), University of Birmingham (UK)



## 5. Conference Co-chairs

Prof. Fei Wei, Tsinghua University (China), Prof. Michael Bradley, University of Greenwich (UK)



## 6. Scientific Topics

### (1) Carbon based energy chemistry and engineering

- Transformation of C1;
- Chemical looping combustion;

- Conversion of hydrocarbons;
- Chemical conversion of carbon dioxide...

Organizers: Weizhong Qian (China), Yanhui Yang (Singapore)...

## (2) Energy conversion materials and engineering

- Solar cell;
- Photoelectric conversion;
- Green hydrogen production;
- Electrocatalysis in energy conversion...

Organizers: Qiang Zhang (China), Stephens, Ifan E L (UK)

## (3) Electrochemical and physical energy storage

- Super capacitor,
- Fuel cell,
- Liquid flow battery,
- Lithium (sodium) ion battery,
- Lithium (sodium) sulfur battery,
- Metal air battery,
- All solid-state batteries,
- Battery recovery chemistry,
- Electric energy chemical energy conversion...

Organizers: Hong Li (China), Qiong Cai (UK)

## (4) Aerosol and environment

- Physico-chemical characterization of aerosol particles;
- Combustion-sourced particulate emission;
- Extremely polluted episodes;
- Nano-aerosol particle and toxicity;
- Health effects of airborne particles;
- Airborne microplastics;
- Air pollution reduction in relation to the lockdown during the COVID-19 pandemic...

Organizers: Longyi Shao (China), Zongbo Shi (UK)

## (5) Particles in healthcare application

- Particles in pharmaceutical industry;
- Particles in biomedical engineering;
- Particles in food industry;
- Particles in home and personal care products;
- Other particles in healthcare applications...

Organizers: Guanghui Ma (China), Zhibing Zhang (UK)

## (6) Nano materials and technology

- Resources utilization;
- Energy storage;
- Water treatment;

- Gas separation;
- Catalysis...

Organizers: Jieshan Qiu (China), Xianfeng Fan (UK)

### (7) Multiscale and multiphase flow

- Multiscale transport phenomena;
- Numerical methods for multiphase systems;
- Multiphase flow measurement;
- Computational particle technology;
- Mesosciences and multiscale modeling;
- Virtual process engineering;
- Software development...

Organizers: Wei Ge (China), Charley Wu (UK)

### (8) Particle design, characterization and measurement

- Particle microstructure design and regulation mechanism;
- Particle multi-physical phenomena in micro-nano scale;
- In situ characterization and structural evolution of particle synthesis process;
- Structural evolution and in situ characterization of particle working state;
- Particle structure design for energy, biology and environment applications;
- Light and ultrasonic scattering theory and particle characterization;
- Particle characterization by image analysis;
- On line particle measurements;
- Nanoparticle sizing;
- Measurement of micro/nano-bubbles;
- Measurement of spray droplet;
- Measurement of emission and environmental particulate;
- Measurement of particles in medicine and life sciences;
- Multi-parameter measurement of particles (including morphology, refractive index, zeta potential, agglomeration, etc.)...

Organizers: Xiaoshu Cai (China), Tong Deng (UK)

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## 7. Scientific and Technical Programs

The conference will be held over three days, and consists of:

- Plenary and keynote addresses;
- Invited and oral presentations;
- Poster presentations;
- **Young scientist Seminars...**

## 8. Registration

Offline meeting for China's domestic participants.

Online attendance for UK and international participants (if there are still travel restrictions or difficulties to China in May 2021).

Please visit <http://ptf8.csp.org.cn>, register and submit your abstraction online.

Category		Early Bird Before May 31 2021	Standard June 1 -
Domestic	Regular	CNY 3800 (GBP 550)	CNY 4500 (GBP 500)
	Student	CNY 3200 (GBP 450)	CNY 3800 (GBP 450)
International	Audience	Free	Free

China's domestic participants can pay by bank transfer, online payment (WeChat, Alipay) or on-site credit card payment, UK and international participants can ignore the following account information.

Account bank (开户行): Industrial and Commercial Bank of China Beijing Haidian West District Sub-branch, 中国工商银行北京海淀西区支行(国内汇款用中文)

Account number (帐号): 0200004509014413416

Name(开户名称): Chinese Society of Particuology, 中国颗粒学会(国内汇款用中文)

Invoice content (发票内容): Conference registration fee, 会议注册费

Address: No. 1 North 2nd Street, Zhongguancun, Haidian District, Beijing

Telephone: 8610-62647647

#### The fee includes:

- Welcome Reception;
- Participation in the scientific program;
- Coffee and lunch breaks;
- Dinners in Saturday and Sunday;
- Conference bag.

Accompanying Persons need to pay for the meals if they want to attend any of the Welcome Reception dinners and any kind of breaks.

#### Cancellation fees:

- Free cancellation before 9th June;
- June 10th and thereafter, Fees cannot be canceled, but the audience can be changed or replaced.

### 9. Young Scientist Seminars and Awards

Young Scientist Seminars will be hold during the meeting time.

The conference will also be featured by Youth Presentation Awards and Best Poster Awards.

### 10. Important Conference Dates

12 April	Call for abstract submission and Registration
31 May	Deadline for the early birds registration

<b>10 June</b>	Deadline for the abstracts submission
<b>15 June</b>	Notification of the abstracts acceptance
<b>20 June</b>	Deadline for the final abstract submission

## 11. Exhibition and Sponsors

PTF8 will provide a hall for companies to exhibit poster, catalog or small scale/table top equipments during the conference. Companies are also welcome to advertise their products by several kinds of services. For more details regarding exhibition and advertisement, please contact Jinghong Li at [klxh\\_exhibit@ipe.ac.cn](mailto:klxh_exhibit@ipe.ac.cn), as well as by Tel: 8610-62647647.

## 12. Scientific Advisory Committee

Prof. Mojtaba Ghadiri, University of Leeds, UK  
 Prof. Jinghai Li, Institute of Process Engineering, CAS, China  
 Prof. Jonathan Seville, University of Birmingham, UK  
 Prof. Richard Williams, Heriot-Watt University, UK  
 Prof. Aibing Yu, Monash University, Australia  
 Prof. Liang-Shih Fan, Ohio State University, USA  
 Prof. Xiaotao Bi, University of British Columbia, Canada  
 Prof. Raffaella Ocone, Heriot-Watt University, UK  
 Prof. Yulong Ding, University of Birmingham, UK  
 Prof. Yong Jin, Tsinghua University, China  
 Prof. Liejin Guo, Xi'an Jiaotong University, China  
 Prof. Mike Bradley, University of Greenwich, UK  
 Prof. Zhibing Zhang, University of Birmingham, UK  
 Prof. Fei Wei, Tsinghua University, China  
 Prof. Qingshan Zhu, Institute of Process Engineering, CAS, China  
 Prof. Agba Salman, University of Sheffield, UK  
 Prof. Yunfa Chen, Institute of Process Engineering, CAS, China  
 Prof. Hong Li, Institute of Physics, CAS, China  
 Prof. Jim Litster, University of Sheffield, UK  
 Prof. Wei Ge, Institute of Process Engineering, CAS, China  
 Prof. Jieshan Qiu, Beijing University of Chemical Technology, China  
 Prof. Paola Lettieri, University College London, UK  
 Prof. Guangwen Xu, Shenyang University of Chemical Technology, China  
 Prof. Yuguo Guo, Institute of Chemistry, CAS, China  
 Prof. Longyi Shao, China University of Mining and Technology-Beijing, China  
 Prof. Jin Ooi, University of Edinburgh, UK  
 Prof. Zhaoyin Wen, Shanghai Institute of Ceramics, CAS, China  
 Prof. Quanhong Yang, Tianjin University, China  
 Prof. Xianfeng Fan, University of Edinburgh, UK  
 Prof. Yongsheng Hu, Institute of Physics, CAS, China  
 Prof. Guanghui Ma, Institute of Process Engineering, CAS, China  
 Prof. Qiang Zhang, Tsinghua University, China

Prof. Charley Wu, University of Surrey, UK  
Prof. Chunzhong Li, East China University of Science and Technology, China  
Prof. Weizhong Qian, Tsinghua University, China  
Prof. Xiaoshu Cai, University of Shanghai for Science & Technology, China  
Prof. Andrew Bayly, University of Leeds, UK  
Prof. Wei Wei, Institute of Process Engineering, CAS, China  
Prof. Li Wang, Beijing University of Science Technology, China  
Prof. Junwu Wang, Institute of Process Engineering, CAS, China  
Prof. Ying Wan, Shanghai Normal University, China  
Prof. Wei Li, Fudan University, China  
Prof. Yansong Shen, University of New South Wales, Australia  
Dr. Tong Deng, University of Greenwich, UK

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### **13. Organising Committee**

Prof. Yulong Ding, University of Birmingham, UK  
Prof. Fei Wei, Tsinghua University, China  
Prof. Mike Bradley, University of Greenwich, UK  
Prof. Qingshan Zhu, Institute of Process Engineering, CAS, China  
Prof. Jerry Heng, Imperial College London, UK  
Prof. Yunfa Chen, Institute of Process Engineering, CAS, China  
Prof. Hong Li, Institute of Physics, CAS, China  
Prof. Guanghui Ma, Institute of Process Engineering, CAS, China  
Prof. Jieshan Qiu, Beijing University of Chemical Technology, China  
Prof. Longyi Shao, China University of Mining and Technology-Beijing, China  
Prof. Xiaoshu Cai, University of Shanghai for Science & Technology, China  
Prof. Weizhong Qian, Tsinghua University, China  
Prof. Qiang Zhang, Tsinghua University, China  
Prof. Xianglei Liu, Nanjing University of Aeronautics and Astronautics, China  
Prof. Linghua Tan, Nanjing University of Science Technology, China  
Prof. Limin Wang, Institute of Process Engineering, CAS, China  
Pro. Jiaqi Huang, Beijing Insitute of Technology, China  
Prof. Fan Wu, Institute of Physics, CAS, China  
Prof. Seng Xin, Institute of Chemistry, CAS, China  
Prof. Xiangxin Guo, Tsingdao University, China  
Prof. Chengmeng Chen, Institute of Coal Chemistry, CAS, China  
Prof. Hengxing Ji, University of Science and Technology of China, China  
Prof. Yuliang Cao, Wuhan Univeristy, China  
Prof. Hao Jiang, East China University of Science and Technology, China  
Dr. Yongliang Li, University of Birmingham, UK  
Dr. Tong Deng, University of Greenwich, UK  
Dr. Tizhuang Wang, Chinese Society of Particuology, China  
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Dr. Chenxi Zhang, Tsinghua University, China  
Dr. Xinbing Cheng, Tsinghua University, China  
Dr. Chaojie Cui, Tsinghua University, China  
Dr. Ali Hassanpour, University of Leeds, UK

Dr. Hua Yue, Institute of Process Engineering, CAS, China

Dr. Colin Hare, University of Surrey, UK

Dr. Yanlin Lv, Institute of Process Engineering, CAS, China

Mr. Tim Freeman, Freeman Technology, UK

Caroline Chapman, University of Greenwich, UK

Vivek Garg, University of Greenwich, UK

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## 14. Conference History and Background

Substances are mostly consisted of particles and their aggregates in different scales and phases. The properties and behaviours of such substances are influenced by their compositions, structures and preparation processes. However, characterizing, measuring, manufacturing, handling and processing of the substances still face numerous challenges. Both UK and China have developed large communities in particle science & technology in the past few decades for addressing these challenges. In order to facilitate communications and to foster collaborations among the communities in the world, especially between the two countries, the UK-China Particle Technology Forum, which is a non-profit event series and is run every two years in rotation between UK and China, was initiated in 2007. The conference aims at 1) Enhancing communications between scientists and engineers from both academic institutions and industrial companies of the two countries; 2) Establishing a platform to foster new and substantial collaborations to identify and address common challenges in particle technology. The PTF8 continues the primary objective of the seven previous forums, which were successfully held in 2007 (Leeds, UK), 2009 (Guiyang, China), 2011 (Birmingham, UK), 2013 (Shanghai, China), 2015 (Leeds, UK), 2017 (Yangzhou, China), 2019 (Edinburgh, UK) to provide opportunities for scientists and engineers to discuss recent advances, to share knowledge and to identify future collaborative research directions in the fields of particle science & technology and their roles in energy, environment, materials, healthcare and other emerging applications. It also aims at consolidating the collaborations established through the seven previous conferences and fostering new collaborations between UK, China and the world.

## 15. Contact Information

Chinese Society of Particuology	
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