

3rd International Hosokawa Powder Technology Symposium Held in China

As the special event aiming at the globalization in Asia of the Hosokawa Powder Technology Foundation, the 3rd International Hosokawa Powder Technology Symposium took place on Tuesday, November 19, 2019, at the Shanghai Institute of Ceramics of the Chinese Academy of Sciences (SICCAS) in China. This International Hosokawa Powder Technology Symposium was held abroad for the third time after the first one (2014, at Hosokawa Alpine AG in Augsburg, Germany) and the second (2017, at Hosokawa Micron Powder Systems Div. in New Jersey, U.S.A.) organized by the Hosokawa Powder Technology Foundation (HPTF). It was co-organized by the SICCAS and the Society of Powder Technology, Japan (SPTJ) and supported by the Hosokawa Micron Corporation (HMC) and Hosokawa Micron (Shanghai) Powder Machinery Co., Ltd. (HMS). At the symposium, five lectures were given on the theme of “Powder and Particle Technology for Advanced Materials” after the opening remarks of President Yoshio Hosokawa.

In the first lecture, high-purity, ultra-fine powder production and processing technologies for advanced materials such as ultra-high temperature heat-resistant rocket members, reflectors, and transparent materials were presented. Then the new nanoparticle size measuring devices, and the in-situ and real-time nanoparticle measurement using this device was introduced. The third lecture was concerning the functional materials based on the form of natural organisms to create new innovative functionalities. After the lectures by the Chinese professors, two presentations were given from the Hosokawa Group on the application of powder processing technology to various industrial product fields, and the development and commercialization of cosmetics and pharmaceuticals using PLGA nanoparticles. Finally, Mr. Uchida of HMS closed the conference with the closing remarks.

The symposium was attended by about 130 people from universities and industries in China and the neighborhood countries including Japan, Korea, and Taiwan. At the venue, a panel exhibition was also made to inform the participants of the activities of the Foundation, introducing the history and main business contents. The latest issue of the KONA Powder and Particle Journal was displayed as well. HMS also exhibited panels to introduce the company and the powder processing machines. The SICCAS was founded in 1928. The lecture hall on the fourth floor was a high-grade inclined conference room with heavy chairs in all rows. Attendees were given a copy of lecture slides in English, printed in color, along with a program brochure. After the lectures, moving to the middle-sized meeting room on the 14th-floor, a social gathering was held using the lobby in front of the room, where discussions between the lecturers and participants continued, and personal exchanges were cultivated. At the lobby, there were a few large, colorful pots and a large, beautiful ceramic screen on display that seemed to be fine arts closely related to the ceramics research and technology, and the fabulous cultural tradition of China.

This first international symposium held in Asia was very successful with interesting lectures and many participants who have been provided with good chances to increase knowledge about the leading powder and particle technology and to get in contact with the people concerned. Without the very kind and active cooperation and assistance of especially the people in Shanghai, those of SICCAS and HMS, it could not have been such a great meeting at all. Following this symposium, the International Symposium on Powder Processing Technology for Advanced Ceramics was organized by the SICCAS and the SPTJ and sponsored by the HPTF at the same venue for the next two days. There were lively talks and discussions on powder processing technology for advanced ceramic materials.



Lecture scenery



People involved in the lecture

3rd International Hosokawa Powder Technology Symposium

Theme: “Powder and Particle Technology for Advanced Materials”

Place: Shanghai Institute of Ceramics, Chinese Academy of Sciences (SICCAS)

Date: Tuesday, November 19, 2019

Organizer: Hosokawa Powder Technology Foundation (HPTF)

Co-organizer: Shanghai Institute of Ceramics, Chinese Academy of Sciences (SICCAS)
The Society of Powder Technology, Japan (SPTJ)

Sponsor: Hosokawa Micron Corporation (HMC), Hosokawa Micron (Shanghai) Powder Machinery Co., Ltd. (HMS)

- **Welcome address** Mr. Yoshio Hosokawa, President of Hosokawa Powder Technology Foundation,
President of Hosokawa Micron Corporation, Japan
- **Lecture 1: High purity and ultrafine powder for advanced ceramics**
Prof. Dongliang Jiang, Shanghai Institute of Ceramics, Chinese Academy of Sciences, China
- **Lecture 2: A novel nanoparticle sizer and in-situ in-line real time nanoparticle sizing**
Prof. Xiaoshu Cai, Institute of Particle and Two-phase Flow Measurement, University of Shanghai for Science & Technology, China
- **Lecture 3: Bio-inspired morphology genetic materials**
Prof. Di Zhang, Prof. Jiajun GU, State Key Lab of Metal Matrix Composites, School of Materials Science and Engineering, Shanghai Jiao Tong University, China
- **Lecture 4: Application of powder processing technology in the field of industrial materials**
Ms. Xiangqun Yan, Assistant Section Manager, Powder Processing Department, Hosokawa Micron Corporation, Japan
- **Lecture 5: Development and commercialization of cosmetics and pharmaceuticals utilizing PLGA-nanoparticles**
Dr. Aiko Sasai, Assistant Section Manager, Materials Business Department, Hosokawa Micron Corporation, Japan
- **Closing remarks**
Mr. Yoshinori Uchida, Managing Director, Hosokawa Micron (Shanghai) Powder Machinery Co., Ltd., China
- **Social gathering**



HMS supporting team with the Foundation members



The Opening address by Mr. Y. Hosokawa at the social gathering in front of the ceramic screen (right: Mr. Y. Uchida, left: Ms. X. Yan)