Before reporting the activities during the fiscal year 2013 (April 2013 to March 2014), we would like to announce POWTEX TOKYO 2014 which is our biggest event. POWTEX TOKYO 2014 is to be held from Nov. 26th (Wed) to 28th (Fri) at Tokyo Big Sight. In addition to exhibitions, various seminars and lectures will take place in the same venue.

Further, it should be stated that Dr. Hiroaki Masuda, professor emeritus of Kyoto University, has succeeded Mr. Takeshi Okawara as the president of APPIE from the year 2014.

Since APPIE was approved as a general incorporated association by the Japanese Cabinet Office, our activities have been classified into two categories: activities for public service and that for members. Hence, this report is written in this order.

1. **Activities for public service**

   - **Survey and research**

     19 technical groups organized in APPIE had 51 meetings in 2013 in total. Among those meetings, the following two are particularly notable. The one is the 4th Japan-Korea Symposium on powder technology held in Kyoto from Oct. 7th to 8th. This symposium was held by three APPIE technical groups (comminution, classification & sieving, mixing, kneading & forming) and the Asian region of ICRA (International Comminution Research Association). The other is a meeting taking place in Shanghai with the visit of IPB (the 11th International Powder & Bulk Solids Processing Conference & Exhibition) as one of the purpose. This meeting was held by the technical group of powder handling. Members of the meeting visited a few Chinese factories and exchanged technical and business information with Chinese companies.

     In POWTEX OSAKA 2013, the 19 technical groups displayed panels to show their activities and the trend of technical movement of their fields. The technical group of dust collection held a lecture course. The committee of particulate nanomaterials held a seminar on safety of nano materials. Explosion protection against nano materials were lectured in the seminar.

   - **Publicity and dissemination**

     (1) **Symposium and forum**

     Various symposiums and forums were held in 2013 as usual. The symposium “Recovery from Tohoku disaster – role of powder technology and prospect for future” was a special event in POWTEX OSAKA 2013.
(2) Publication
Monthly magazine *Funtai Gijutsu* (Powder Technology), homepage and email newsletter of APPIE play the role as the source of information released by APPIE. Contents in these mediums are announcements of events and topics related to powder processing. A booklet “Roadmap of Powder Technology” supervised by APPIE was published.

(3) Industry, academia and government linkage fair
This fair was held in POWTEX OSAKA 2013 with the aim of providing the place where seeds and needs meet. There were 51 seeds from academia and government and 128 needs from industries.

(4) Technical support
The technical support corner was set up in POWTEX OSAKA 2013 for consultation service. Consultants were experts of powder technology such as university professors. The consultants responded to questions of visitors. The number of consulting cases were 49 during the period of POWTEX OSAKA 2013.

- **Human resource cultivation and education**
  The following seminars and lectures were held for the purpose of human resource and education.

  **Introductory Course on Powder Technology (I, II, III)**
  - Course 1: What is powder?
  - Course 2: How to make powder?
  - Course 3: How to manipulate powder?
  The total number of participants was 219 in 3 courses.

  **Early Training Course**
  The total number of participants was 146 in 11 courses.

  **Specialized Course**
  Organized by technical group of dust collection.
  The number of participants was 81.

  **Special Course**
  - Course 1 : Safety technology
  - Course 2 : Chinese market
  The total number of participants was 115 in 2 courses.

  **Management Course**
  The theme is “how to survive in the era of upheaval.”
The number of participants was 52.

Training Course

The number of participants was 50.
The theme is dust explosion and fire.

● Standards

The Committee of Standard Powder examined the expression of uncertainty of size distribution of JIS standard powders and APPIE standard powders. In October, Prof. Y. Mori, vice chair of the committee, visited IRMM (Institute for Reference Materials Measurements) in EU. He provided test sub-micron test particles there and delivered an invited lecture.

The Standard Committee examined the draft (SAP16) “Evaluation method for mixing characteristics of powder mixer by brightness measurement” which was made by the technical group of mixing, kneading & forming. “Manual for use of test powders and reference powders” was withdrawn and has been archived as a reference.

The subcommittee for sieve and sieving attended the TC24/SC8 meeting in Berlin in March, and joined the discussion concerning mesh screens and others. In September, the subcommittee for dust collection technology attended the TC 142 meeting and WG7 international conference, and played a leading role towards establishing the international standard of durability test of filter. The committee of dust explosion has decided to make a guideline for manufacturing fluidized-bed dryers in cooperation with National Institute of Occupational Safety and Health, Japan.

● International Liaison

The international liaison committee set up the Japanese Pavilion and APPIE booth in IPB 2013 in Shanghai. 12 member companies joined the pavilion. The committee assisted the technical group of powder handling to hold their meeting and make a technical tour in China. Prof. Y. Tsuji, chair of the committee, attended Powder & Bulk Solids India held in Mumbai, and delivered the speech on the activities of APPIE.

● Exhibition

POWTEX OSAKA 2013 was held from Oct. 9th (Wed) to Oct 11th (Fri) at INTEX Osaka. It had 573 booths by 179 exhibitors. The number of visitors was 9,225. This number was more than expected.
• **Production and sale of standard powders**

  The sale amount of standard powders increases from year to year and it reached 90 million yen in 2013. Powders of a large sale are Kanto loam powders which are used in the tests of auto parts and electronic devices. The sale of Kanto loam powders occupied about 60% of the whole sales.

2. **Activities for members**

  Technical Information Exchange Meetings were held in Tokyo, Nagoya, Osaka and Fukuoka. These meetings are called Tuesday, Wednesday, Thursday and Friday Gathering, respectively, according to the day of the week of holding. The total numbers of these meetings and participants were 14 and 958, respectively.

  Award Committee recommended individuals of APPIE members to the president as awardees of the following awards:

  - Award for Distinguished Contribution to technical group activities,
  - APPIE Award,
  - POWTEX Award,
  - Powder Technology Achievement Award

  The presentation ceremony took place on May 27th, 2014 following the annual general meeting in Tokyo.