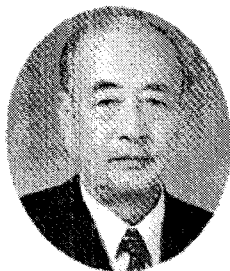


On the good Occasions of the ICLASS-'97



OK YONG YANG
Conference chairman of ICLASS-'97
Professor Emeritus Inha University

1. Looking Back

We are so proud of having hosted the Seventh International Conference on Liquid Atomization and Spray Systems (ICLASS-97) which was held with the great success at the Swiss Grand Hotel in Seoul on August 18~22, 1997 in cooperation with worldwide related societies.

As all of you know, the first ICLASS conference (ICLASS-78) was held in Tokyo, Japan in 1978. Since that time ICLASS conferences have been held 6 times at an interval of almost 3 years : ICLASS-82 in Wisconsin, USA, ICLASS-85 in London, UK ICLASS-88 in Sendai, Japan, ICLASS-91 in Gaithersburg, USA, and in 1994, the sixth ICLASS conference (ICLASS-94) was held in Rouen, France.

On all occasions of the ICLASS conference since the first international conference in 1978, a great number of participants have joined from all over the world to present their research outcome and exchange current information with one another.

On behalf of the ICLASS-Korea, I was honored to host this conference in Seoul, expressing my sincere gratitude not only to all the participants, but also to all the conference sponsors and the collaborating societies.

Here I especially appreciate Prof. H. Hiroyasu and Prof. N. Chigier for their kind advice and cooperation in the capacity of the former president of ICLASS International Council and Prof. Hashimoto, the president of ICLASS-Japan, together with vice president Prof. M. Fujimoto and Prof. N. Tokuoka for the preparation of ICLASS-'97.

Also, I'd like to express my heartfelt thanks to Prof. emeritus Takeshi Sato, the former president of Japan Society of Mechanical Engineers, for his continuous warmful advice.

In this Conference, as one of the forefront runners who have been engaged in the Study on Liquid Atomization and Spray Systems Technology for so many years since my Keio University days 1956, I was really encouraged to

see you positive and confident for the future development in this field of study.

2. Steps of ICLASS-97

The first semi-international organization of ILASS-Far East was established on March 15, 1986 after Korean delegates joined ILASS-Far East conference held in Tokyo, Japan, on Feb. 2, 1986 and since that time ILASS-Korea has been active as one of the member societies of ILASS-FE. However, ILASS-FE was dismissed by the international agreement, and every country had set up its own ILASS organization. In Korea, the ILASS-Korea was newly established as our own independent national organization under the ICLASS on July 21, 1989.

Since 1986, ILASS-Korea has been initiated as a foundation of general meeting and academic meeting annually, and we, ILASS-Korea, have been able to promote its foundation on a firm basis. We also could maintain a mutual cooperative friendship between ILASS-Japan and ILASS-Korea. We really appreciate ILASS-Japan's strong assistance and cooperation every year for the special lectures and presentation of so many papers to the ILASS-Korea annual meeting.

Incidentally, it was a very big news that ILASS-Korea was authorized in April 1995 as the formal society of a corporate judicial person under Korean Ministry of Commerce and Industry.

I believe this provided us a better opportunity for the success of ICLASS-97 so that through the ICLASS-97 conference, we could increase our mutual understanding and contribute to the further development of ICLASS conference in the future.

3. Areas of Attendants

As we already had wonderful experience through the ICLASS conference in the past, this conference (ICLASS-97) was a very useful event when scientists and engineers of global society of atomization got together, exchanged ideas and discussed freely in an open atmosphere. The participants were individuals in industry, government or research laboratories with a technical background in mechanical, chemical, aeronautical, agricultural engineering or instrumentation technology and also engineers, scientists or technologists working in chemical and materials processing, combustion, food, pharmaceutical and agricultural industries, where liquid and solid sprays were part of the system. In addition, designers and operators of systems in which

atomization, vaporization, particle dynamics, spray drying, deposition, and combustion played a vital role.

4. Technical Session

As you are well aware, ICLASS-'97 was the 7th International Conference. The first conference was held in Tokyo in 1978. Over the last 20 years, Liquid Atomization and Spray Systems Technology has made substantial progress through international cooperation and exchange of technical information.

Nowadays interest and activity in research and development in the field of Atomization and Spray System Technology are remarkably increasing.

Under such circumstances, the Korean Executive Organizing Committee members of the ICLASS-'97 had tried to make further efforts in organizing by incorporating valuable ideas and opinions from a worldwide stock of knowledge. Therefore, 141 papers were submitted from 16 different countries to this conference through the effort of ILASS-Japan, ILASS-Americas and ILASS-Europe and others. The plenary lectures, panel discussions and paper presentations were made by leading international experts and authorities in the subject fields of the world as indicated in table 1 and 2.

Due to the environmental requirement and world energy situation, the need of Spray Systems Technology for Liquid Atomization and the expectations regarding their use are becoming much stronger today in various fields of world industry.

The present global society is making great demands on us to participate in the establishment of a better future through accomplishment of Atomization and Spray Systems Technology which will contribute to our global society for the development and prosperity of humankind.

4-1 Topics of Papers

Nowadays there is a tendency everywhere in the world of an increasing application of liquid atomization and spray systems. Among the many activities, in particular, the topics of the papers presented in ICLASS-97 which are listed below ;

Basic Atomization, Automotive Fuel Sprays, Pressure Atomizers, Twin-Fluid Atomization, Agricultural and Medical Sprays, Electrostatic, Ultrasonic and Novel Techniques, Evaporation, Heat and Mass Transfer, Combustion and Atomization of Fuels, Modeling of Sprays, Measurements Techniques in Sprays, Aerosol Technology.

Table 1 Number of the papers presented from 16 different countries.

No.	C o u n t r y	Full-Paper
1	CHINA	2
2	CZECH REPUBLIC	1
3	EGYPT	3
4	FINLAND	1
5	FRANCE	14
6	GERMANY	14
7	INDIA	2
8	ITALY	1
9	JAPAN	41
10	KOREA	22
11	MALAYSIA	1
12	RUSSIA	4
13	SPAIN	1
14	TAIWAN	4
15	U.K.	10
16	U.S.A.	20
TOTAL	16	141

Table 2 Number of Registration

C o u n t r y	Number of Registration
CHINA	2
CZECH REPUBLIC	1
EGYPT	3
FINLAND	1
FRANCE	16
GERMANY	10
INDIA	1
ITALY	1
JAPAN	66
KOREA	112
MALAYSIA	1
RUSSIA	4
SPAIN	1
SWEDEN	1
TAIWAN	8
U.K.	6
U.S.A.	19
17	262

4-2 Plenary Lectures

- I. "LDA Based Optical Particle Sizing of Spherical and Irregular Shape"
Prof. Masanobu Maeda(Keio Univ. Japan)
- II. Activities on Liquid Atomization at the Research Center Lampolshansen
of the German Aerospace Research Establishment
Dr. Zoltan Farago (DLR German Aerospace Research Establishment,
Germany)
- III. The Point-Particle/Continuum-Field Theory of Spray Flows
Prof. C.F. Edwards (Stanford Univ. U.S.A.)
- IV. Introduction to Aerosol Dynamics

Prof. Kyoo Won Lee (Kwangju Inst. of Science and Technology, Korea)

4-3 Panel Discussion

Theme : Atomization for the 21st Century

Chairman : Norman Chigier (Carnegie Mellon Univ. U.S.A.)

Panelists :

- J. Kennedy (United Technologies Research Center, U.S.A.)
- J. Bellan (Colifornia Inst. of Technology, U.S.A.)
- H. Hiroyasu (Univ. of Hiroshima, Japan)
- Sang Yong Lee (KAIST, Korea)
- Paul Chiu (Nat'l Chen Kung Univ. TAIWAN)
- J. Domonik (Fraunhofer Inst. Productions Technik und Aulomatisierung, Germany)
- C. Ducmouchel (Universite de Rouen, France)
- W. Balachandran (Brunel Univ., U.K)

5. Meetings

During the period of the ICLASS-'97, the Tanazawa Award Meeting, the ILASS International Council Meeting were held.

Dr. Hiroyuki Hashimoto got the Tanazawa Award Prize. This prize is the most excellent prize for the academic research work on Liquid Atomization and Spray Systems as the result of in the keen competition in 1996.

In the ILASS International council meeting, the constitution and By-Laws of the International council of Institute for Liquid Atomization and Spray systems were examined finally. Prof. W. Balachandran, Prof. of Electronic Systems, Dept. of manufacturing and Engineering Systems of Brunel University, U.K. and Prof. Chris F. Edwards, Stanford University U.S.A. were elected unanimously as the new president and the Secretary of the ILASS International council. And also the location and date of ILASS-2000 is decided to Pasadena, California U.S.A. on July 17~21, in 2000.

Organizing Committee Chair, Dr.Josette Bellan, and paper committee chair, Prof. Norman Chigier are announced that ILASS-2000 will be a very special event for the International Institute for Liquid Atomization and Spray Systems. An exciting program will be organized to mark the transition to the next Century.

6. Wrap-Up

Dear friends! I really expect that all of the participants utilize this

opportunity effectively and contribute to the future development of the ICLASS.

It seems that recent development of the ICLASS is, first of all, due to the spirit and power of the participants who are looking forward to the 21st century.

I wish all of you to have a good health and to make further progress in your work and family.

Although our gathering time was so short, we could build up a good friendship among the participants. I wish you would cherish good memories by experiencing the beautiful Korean tradition and culture, and through a Gaya Evening of traditional Korean folk dance and music in Korean night.

At the same time, I should not forget to say many thanks to the volunteers, all committee members of ILASS-Korea, all organizing Committee members of ICLASS-'97 and staff members of Intercom, without their help this conference would not be successful. I really appreciate their endless heartfelt endeavor for this conference.

Finally I owe to the financial sponsors, needless to say, without their support it was very difficult to hold this conference.

I hope we can get together in ICLASS-2000, looking forward to meeting you again in Pasadena, California U.S.A.

Thank you very much.