

The 5th International Conference on Properties and Applications of Dielectric Materials, ICPADM-97

The ICPADM '97 Seoul Conference is sponsored by the IEEE Dielectrics and Electrical Insulation Society and organized by the Korean Institute of Electrical and Electronic Material Engineers (KIEEME). It is an interdisciplinary meeting of scientists, engineers and researchers from industry, research institutes, government organizations and universities to exchange their technical information and interests in the field of properties and applications of dielectric materials.

This international conference was organized in 1984 by Prof. Liu Ziyu of Xi'an Jiaotong University, China, Prof. K. C. Kao of University of Manitoba, Canada and Dr. E. O. Forster, USA in the frame of IEEE DEIS in order to activate the R&D of dielectrics and electrical insulating materials in the Pacific rim including China, Asian, Oceanian and North American countries. It is held every three years from 1985 by the sponsorship of IEEE DEIS, hosting university and Institute of Electrical Engineers of the hosting country. The first ICPDM was held at Xi'an Jiaotong University, Xi'an, China in 1985, the second at Tsinghua University, Beijing, China in 1988, the third at Waseda University, Tokyo, Japan in 1991 and the fourth at University of Queensland, Brisbane, Australia in 1994. All four conference in the past were well accepted by the international community of dielectric and electrical insulation. The 5th ICPADM was held at the Sheraton Walker Hill Convention Center, Seoul, Korea, May 25-30, 1997. The first venue of ICPADM in Korea attracted much interest from the world and among the total 245 participants from 21 countries. 124 were from abroad. The main participants came from Korea 121, Japan 66, China 13, USA 11, Australia 7, Germany 4, Sweden 4, Canada 3, Indonesia 3, and so on. The organizing committee headed by a general chairman, Dr. Yong-Hyun Paek president of KIEEME planned the conference flawlessly and every event was carried out smoothly and effectively. Following the registration on the first day and the opening of the conference proclaimed from 4:30 pm, the first Prof. Ziyu Liu Memorial Lecture commemorating one of the founder of ICPADM who passed away in 1990 was given by Dr. A. H. Cookson, National Institute of Standards and Technology, USA. He gave an impressive lecture with the title "Role of Electrical Insulation in the Design and Operation of High Voltage Equipment". The proceedings of this conference consisted of two volumes containing 292 papers. The presentations include 4 plenary lectures, 18 oral presentations and 270 poster presentations. The topics of technical session and the number of applied papers of each session are listed in Table 1. The total number of presented paper was 238 from 20 countries. While some papers were withdrawn, all papers from Japan were presented. Since this conference was organized by KIEEME, many papers from Korea are related to the session topics 7, 12 and 14. In the morning, three or four illustrative papers of the topics of the day were orally presented about 30 minutes each. Papers scheduled in the poster session in the afternoon are followed by 3 minutes briefing by OHP. The papers were displayed in the afternoon poster session for further discussion. 30 minutes discussion was held every day after the poster session. This style of the conference was overwhelmingly favored from the answer to questionnaire by participants. The plenary lectures: the second day was, "New Approach to Investigate the Dynamic Relaxation Process of Complex Peak in Mechanical and Dielectric Characteristics of Anelastic Solids", by Dr. B. H. Kim (KOREA), the third day was, "Luminescence in Crosslinked Polyethylene of High Voltage Cables", by Dr. S. S. Bamji (CANADA), the fourth day was, "Space Charge and Solid Insulating Materials - In Pursuit of Space-Charge Control by Molecular Design", by Dr. M. Ieda (JAPAN).

The 18 oral presentations covered by the representative papers of the technical session topics in Table 1 in a balanced manner except the third day where the host country presented "Introduction of R&D in Korea". The vigorous R&D activities on electrical insulation technology of industries, universities and research institutes were reviewed. The oral papers of the fifth day were involved in the panel discussion on the topic of thin film technology and devices. Two oral papers, "Maxwell Displacement Current across Monolayers and its Application to Monolayer-film Devices" by Dr. M. Iwamoto (Japan) and "Research Overview and Application trend in Ferroelectric Thin Films" by Dr. H. G. Kim (Korea) were followed by the constructive discussions. After the poster session of the fifth day the review and the closing remarks were presented by Dr. H. G. Kim, the chairman of Technical Program Committee and Dr. Y. H. Paek, general chairman of ICPADM'97, respectively. Mr. H. E. Orton, the chairman of International Advisory Committee announced that the venue of the 6th ICPADM in 2,000 is Xi'an, China and Xi'an Jiaotong University will organize the conference. The conference was in general very successful in terms of technical sessions, welcoming reception, city tour, banquet and technical tours.