

Plasma Display Discharge and Emission

Gas Insulation Technology for prospective future transmission
and substation apparatus

Physical and Chemical Reaction of Electrons, Ions and
Excited Particles in Discharge Plasma

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Technical Committee on High Voltage Engineering

Chairperson	M. Ishii (Tokyo University)
Secretaries :	T. Yabushita (Mitsubishi Electric Co. Ltd.) A. Inui (Toshiba Corporation)
Assistant Secretary :	H. Motoyama (Central Research Institute of Electric Power Industry)

The 100th meeting of the High Voltage Engineering Technical Committee will be held in the next year, which means that this committee is about 24 years old. This committee supervises investigation committees in the field of high voltage engineering except on high voltage apparatuses or on fundamentals. There are five running investigation committees in August 1997. Also, the three investigation committees will start functioning soon. Their names and the chairpersons are shown in Table 1.

It is seen from the above subjects of investigation, that the scope of this technical committee resembles, but is broader than, the CIGRE Study Committee 33 (Overvoltages and Insulation Coordination). Moreover, an investigation committee on insulation coordination is planned to start in the next fiscal year.

The technical committee plans to organize eight technical meetings in the fiscal year of 1997, five of which will be jointly organized with other technical committees of IEEJ related to high voltage engineering, such as Electrical Discharge Technical Committee or Switching and Protection Technical Committee. In January 1977, a symposium on electric and magnetic phenomena associated with earthquakes organized by the technical committee was successfully held in Osaka.

The technical committee usually meets four times a year, and one of the meetings is held associated with a technical visit by the committee members to facilities related to high voltage engineering. This year the committee members visited the testing field of a UHV prototype transformer, about 100km north of Tokyo. The members of the committee other than the chairpersons of the investigation committees are from universities (4), research institutes (2), electric power utilities (4), and manufacturers (9).

Table 1 Investigation Committees in TC-HVE

Research Subject	Chairperson
(running)	
Application of Large Current Energy Investigation Committee	T. Inaba
Insulation and Surge Characteristics of Equipments of Distribution Line	S. Yokoyama
Modeling for Advanced Evaluation of Lightning Surge Analysis	A. Ametani
Improvement of Monitoring Devices against Insulator Pollution	S. Nishimura
Measurement of High Voltage AC and DC	H. Hirayama
(To be established soon)	
Testing Technique of Impulse Voltage and Current Measuring Systems	T. Harada
Electric and Magnetic Phenomena Associated with Earthquakes	K. Horii
Lightning Location Systems	M. Ishii