

2010 July Activity Report of Commission E

(Electromagnetic Noise and Interference)

March –July, 2010

Domestic Topics:

EMI control technologies are still of prime interest of high-speed electronic device supplier. Engineers who design electronic apparatuses are always more effective, more versatile method of EMI control. Research activities are held in many farms, but results are apt to be closed to the farm. EMC researches are held in a few universities out of more than 100 Universities that have engineering department.

Automobiles as well as electronics are commodities to be exported in order to support life of Japanese people. These days the electric vehicles are expected as a resolution for the global green-house effect, in which radio receivers must work with 30-100kW driving electric system. The EMC problems in automotives are problems of today and tomorrow in Japan. The smart-grid technology which combines information technology and power technology requires EMC technology. Thus EMC technologies to suppress noise are fundamental technologies that assure the existence of the country.

Academic activities:

1. Commission E had, in the period of March 2010 to July 2010, 5 technical meetings in corporation with the Technical Committee on Electromagnetic Compatibility (EMCJ) of the Institute of Electronics, Information and Communication Engineers of Japan (IEICE). More than 60 papers were read there, 20-30 minutes each. Most of them were held in Japanese with English abstracts in proceedings. A few presentation were made in English, most of them are by foreign students or researchers. List of the titles are found in a web-page,

<http://www.ieice.org/cs/emcj/index.html#abstract>.

2. A small sized international meeting, Pan-Pacific EMC Meeting (PPEMC) has been regularly held till the year of 2006. Fourth event was held May 27-28, 2010 at Cyberscience Center, Tohoku University, Sendai.

3. “2010 Asia-Pacific Electromagnetic Compatibility Symposium and Technical Exhibition, APEMC’10” was held in 12-16, April, 2010, at Beijing Convention Center, Beijing, China. Topics about EMC are comprehensively included in the scope of the symposium. There were more than 500 presentations.

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3. Organization of “2014 International Symposium on EMC: EMC14’/??” has been stated, though only Professor Masao TAKI has been appointed as the chairman. Date and place are not determined yet.