

Commission A (Electromagnetic Metrology) Activity Report

March 2011 - June 2011

1. International Meetings in the Period

A joint conference of the IEEE International Frequency Control Symposium (IFCS) and European Frequency and Time Forum (EFTF) has been held in San Francisco, California, USA, from May 1 to May 5, 2011. Research papers related with developments of microwave and optical frequency standards, time keeping, time and frequency transfer, and GNSS applications were presented and 515 researchers from 39 countries participated in the conference in total. The next joint conference has been scheduled to be held in Prague, Czech Republic, in 2013.

In the field of lasers and its applications for optical frequency standards, Conference in Lasers and Electro-Optics (CLEO) was held in Baltimore, Maryland, USA from May 1 to May 6, 2011, and CLEO/Europe was held in Munich, Germany, from May 22 to May 26, 2011. International Conference on Laser Spectroscopy (ICOLS) was held in Hannover, Germany from May 30 to June 3, 2011.

The 27th meeting of the CCEM was held at the BIPM on Thursday, 17 March, and Friday, 18 March 2011. The meetings of the working Groups of the 21st meeting of the CCEM Working Group, the working Group on Low Frequency (WGLF) and so on were held at the same place in the same week. Three research scientists of NMIJ/AIST were dispatched to the meetings of the CCEM and the relevant WGs as the delegation from Japan.

2. Future Meetings

In the 30th General Assembly and Scientific Symposium of URSI to be held in Istanbul, Turkey, in August 2011, commission A will host following 9 sessions including joint sessions with other commissions.

A02 – Fractals - Design and Measurement

A03 – Time Scale

A04 – EM Materials

AB – Antenna Measurement

ABD – Low Noise Microwave Generation

AC – Communication Metrology

AD – Optical Frequency Metrology
AGJ – Pulsar Timing and Time Transfer
AT – Single Electron Tunneling (SET)

The General Assembly and related meetings of Asia-Pacific Metrology Program (APMP) will be held at Kobe International Conference Center from December 4 to December 9, 2011. National Metrology Institute of Japan will host the meetings with collaborations of National Institute of Information and Communications Technology, Chemicals Evaluation and Research Institute, and Japan Electric Meters Inspection Corporation. The 43rd Annual Precise Time and Time Interval Systems and Applications (PTTI) Meeting will be held at Long Beach, California, USA in November 2011.