

Commission A (Electromagnetic Metrology) Activity Report

March 2010 - July 2010

1. International Meetings in the Period

The 24th European Frequency and Time Forum (EFTF2010) was held at the Space Research and Technology Centre of the ESA, Noordwijk, the Netherlands from April 13 to April 16, 2010. Although the conference is held annually in the area of Europe, it is one of the major international meetings related with the scientific research in the field of time and frequency metrology. During the forum, 17 oral and 2 poster sessions were held to cover developments of frequency standard, GNSS applications, time and frequency transfer methods, and calibrations. Only 2 papers out of total 187 papers were given by the Japanese researchers and it is encouraged to promote the importance of the forum in the community.

The 27th Conference on Precision Electromagnetic Measurements (CPEM 2010) was held at Daejeon Convention Center in Daejeon, Korea from June 13 to June 18, 2010. The host institute of the conference was Korea Research Institute of Standards and Science (KRISS). In total, 52 researchers from Japan have registered to the conference which was about 10% of the total participants, and 41 papers were presented by these Japanese participants. The Early Career Award Program was held to encourage young researchers to enter the field of metrology, but there were no awardees from Japan this year. It will be necessary to encourage young researchers to submit applications to such opportunities in the future conferences.

2. Future Meetings

The 18th meeting of the BIPM-CCTF (Bureau International des Poids et Mesures - Consultative Committee for Time and Frequency) Working Group on Two Way Satellite Time and Frequency Transfer will be held at the National Institute of Metrology of China for two days from September 16, 2010. The Intelsat-4 satellite, which used to be connecting Asia Pacific region with European institutes, has stopped its operation since February 2010. Currently, efforts are being made to re-establish the Asia-Europe link by using Russian AM-2 satellite. The detailed

procedure to re-establish the link and plan to share the satellite lease expenses will be discussed during the meeting. The 42nd Annual PTTI (Precise Time and Time Interval) meeting will be held at Hyatt Regency Reston Town Center, Reston, Virginia, USA for four days from November 15, 2010. Various activities and information in the time and frequency metrology field will be discussed and exchanged during the meeting. The General Assembly and related meetings of the APMP (Asia Pacific Metrology Programme) will be held for 7 days from November 14, 2010 at Dusit Thani Pattaya Hotel, Pattaya, Thailand. All activities related with metrology in the region of Asia Pacific will be discussed during the meeting.