

# Commission B (Fields and Waves) Activity Report\*

## - July 16, 2004 to November 10, 2004 -

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### 1. Past National and International Conferences

- IEICE Conference of Technical Committees on Antennas and Propagation (A·P), Electromagnetic Theory (EMT), and Microwaves (MW), Sapporo, Japan, July 21-23, 2004.
- 2004 International Symposium on Antennas and Propagation (ISAP'04), Sendai, Japan, August 17-21, 2004.
- 2004 Asia-Pacific Radio Science Conference (AP-RASC'04), Qingdao, China, August 24-27, 2004.
- 2004 Progress in Electromagnetics Research Symposium (PIERS 2004), Nanjing, China, August 28-31, 2004.
- IEICE Conference of Technical Committee on Antennas and Propagation (A·P), Kanagawa, Japan, September 9, 2004.
- IEICE Conference of Technical Committee on Microwaves (MW), Tokyo, Japan, September 13-15, 2004.
- 10-th International Conference on Mathematical Methods in Electromagnetic Theory (MMET\*04), Dnepropetrovsk, Ukraine, September 14-17, 2004.
- 2004 IEICE Society Conference, Tokushima, Japan, September 21-24, 2004.
- 2004 IEEE/IEICE Symposium on Electromagnetic Theory, Hyogo, Japan, September 28-30, 2004
- IEICE Conference of Technical Committee on Microwaves (MW), Iwate, Japan, October 28-29, 2004.
- IEICE Conference of Technical Committee on Antennas and Propagation (A·P), Niigata, Japan, October 28-30, 2004.
- 13<sup>th</sup> International Symposium on Antennas (JINA 2004), Nice, France, November 8-10, 2004.
- 2004 Microwave Workshops and Exhibition (MWE 2004), Yokohama, Japan, November 10-12, 2004.

### 2. Future National and International Conferences

- 2004 Korea-Japan AP/EMC/EMT Joint Conference (KJJC-AP/EMC/EMT'04), Seoul, Korea, November 22-23. <http://www.ieice.or.jp/cs/ap/jpn/KJJC2004.html>
- IEICE Conference of Technical Committee on Microwaves (MW), Kumamoto, Japan, November 25-26, 2004.
- 2004 Asia-Pacific Microwave Conference (APMC'04), New Delhi, India, December 15-18, 2004. <http://www.apmc04.org.in>
- IEICE Conference of Technical Committee on Antennas and Propagation (A·P), Tokyo, Japan, December 16, 2004.
- IEICE Conference of Technical Committee on Microwaves (MW), Toyama, Japan, December 20, 2004.
- IEICE Conference of Technical Committee on Microwaves (MW), Tokyo, Japan, January 17-19, 2005.
- IEICE Conference of Technical Committee on Antennas and Propagation (A·P), Saga, Japan, January 20-21, 2005.
- IEICE Conference of Technical Committee on Microwaves (MW), Kanagawa, Japan, March 2-4, 2005.
- 2005 IEICE General Conference, Osaka, Japan, March 21-24, 2005. <http://www.ieice.org/jpn/event/zenkokutaikai.html>
- 2005 IEEE MTT-S International Microwave Symposium, Long Beach, CA, USA, June 12-17, 2005. <http://www.ims2005.org>
- International Seminar "DAYS on DIFFRACTION – 2005", St. Petersburg, Russia, June 28-July 1, 2005. <http://math.nw.ru/dd05>
- 2005 IEEE AP-S International Symposium and USNC/URSI National Radio Science Meeting, Washington, DC, USA, July 5-9, 2005. <http://www.ieeeaps.org>

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\* Various useful information on URSI and URSI Japan National Committee are available from the web sites at

URSI: <http://www.ursi.org/>

URSI Japan National Committee: <http://www.kurasc.kyoto-u.ac.jp/ursi/>

- 2005 International Symposium on Antennas and Propagation (ISAP2005), Seoul, Korea, August 3-5, 2005. <http://www.isap05.org>
- 10th International Symposium on Microwave and Optical Technology (ISMOT-2005), Fukuoka, Japan August 22-25, 2005. <http://ismot2005.fit.ac.jp>
- 2005 Progress in Electromagnetics Research Symposium (PIERS 2005), Hangzhou, China, August 22-26, 2005. <http://piers.org>
- XXVIIIth General Assembly of the International Union of Radio Science, New Delhi, India, October 23-29, 2005. <http://www.ursiga2005.org/index.htm>
- 2006 IEEE MTT-S International Microwave Symposium, San Francisco, CA, USA, June 11-16, 2006. <http://www.ims2006.org>
- 2006 IEEE AP-S International Symposium and USNC/URSI National Radio Science Meeting, Albuquerque, NM, USA, June 2006. <http://www.ieeeaps.org>
- 2006 Progress in Electromagnetics Research Symposium (PIERS 2006), Tokyo, Japan, August 2-5, 2006.
- 2007 URSI International Symposium on Electromagnetic Theory, Alexandria, Egypt, May 2007.
- 2007 IEEE MTT-S International Microwave Symposium, Honolulu, HI, USA, June 2-8, 2007. <http://www.mtt.org/>
- 2008 IEEE MTT-S International Microwave Symposium, Atlanta, GA, USA, June 13-19, 2008. <http://www.mtt.org/>
- 2009 IEEE MTT-S International Microwave Symposium, Boston, MA, USA, June 8-12, 2009. <http://www.mtt.org/>
- 2010 IEEE MTT-S International Microwave Symposium, Anaheim, CA, USA, June, 2010. <http://www.mtt.org/>

Latest information on various activities related to IEEE/IEICE Technical Committee on Electromagnetic Theory (EMT) and IEICE Technical Committees on Antennas and Propagation (A·P) and Microwaves (MW) can be obtained from the IEICE web site (in Japanese) at

EMT: <http://www.ieice.org/~emt/jpn/>

A·P: <http://www.ieice.org/cs/ap/jpn/>

MW: <http://www.ieice.org/es/mw/jpn/>

### 3. URSI Commission B International Electromagnetics Prize

URSI Commission B has established, with the approval of the URSI Board of Officers, the “International Electromagnetics Prize” to be awarded annually. The prize is US\$10,000 plus a commemorative plaque and is sponsored by the Summa Foundation. It is awarded for an accurate approximate solution of a designated scattering or related problem in electromagnetics and is presented at an appropriate URSI meeting. The 2005 Prize Problem has been announced in February 2004, and entries in the specified format must be received before June 15, 2005. Entries will be judged by a panel appointed by the chair of URSI Commission B and the Summa Foundation. Factors taken into account in the judging will be the simplicity and elegance of the expressions, their conformity with the known physical properties of the solution, and their accuracy for all values of the parameters involved in the problem. All scientists are eligible for the prize apart from an officer or director of the Summa Foundation, a member of the panel, or one of their immediate working associates. For details on the prize, please visit “<http://www.ursi.org/EM%20Prize.htm>”.

### 4. Preparation for XXVIIIth General Assembly of the International Union of Radio Science

The XXVIIIth General Assembly of the International Union of Radio Science (URSI) will be held in New Delhi, India on October 23-29, 2005. Please visit the web site “<http://www.ursiga2005.org/index.htm>” for the latest information of the conference. The present status on preparations of Commission B for the URSI GA 2005 (session details, etc.) can be found in a separate material attached to this report.