

Commission B, Fields and Waves
Activity report
November 2009–February 2010

1 Japanese EMT Symposium 2009

1.1 Statistics

Date: November 26-28, 2009

Location: Naha, Okinawa, Japan

Number of oral presentations: 54

1.2 Summary

The Technical Committee on Electromagnetic Theory (EMT) is jointly established in the Institute of Electronics, Information and Communication Engineers (IEICE), and in the Institute of Electrical Engineers of Japan (IEEJ), in order to maintain the qualified position of Japan in the field of the electromagnetic theory, by promoting the collaboration with foreigners and by bringing up the young Japanese colleagues who would contribute to the global activation of the electromagnetic society.

The technical committee regularly holds the annual Electromagnetics Theory Symposium for the past 38 years. The scope of the symposium includes;

- Fundamental theory of electromagnetics (including relativistic theory, quantum electrodynamics, etc.)
- Analysis theory of electromagnetic fields
- Numerical solutions and modeling of electromagnetic fields
- Simulation techniques of electromagnetic fields
- Scattering and diffraction of electromagnetic waves
- Interaction of electromagnetic fields with media (including laser, plasma, random media, etc.)
- Nonlinear problems
- Inverse problem, inverse scattering
- Electromagnetic environment
- Electromagnetic effect on biological systems
- Other related fields.

2 Future Conferences

2.1 PIERS 2010 in Xi'an

The 27th PIERS (Progress In Electromagnetics Research Symposium) in Xi'an

Date: 22–26, March, 2010

Location: Xi'an, China

Web page: <http://piers.mit.edu/piers2010xian/>

2.2 EuCAP2010

The 4th European Conference on Antennas and Propagation

Date: 12–16 April, 2010

Location: Barcelona, Spain

Web page: <http://www.eucap2010.org/>

2.3 PIERS 2010 in Cambridge

The 27th PIERS (Progress In Electromagnetics Research Symposium) in Xi'an

Date: 5–8, July, 2010

Location: Cambridge, USA

Web page: <http://piers.mit.edu/piers2010Cambridge/>

2.4 2010 IEEE AP-S & USNC/URSI

The 2010 IEEE International Symposium on Antennas and Propagation and the 2009 USNC/URSI (U.S. National Committee of the International Union of Radio Science) National Radio Science meeting

Date: 11–17 July, 2010

Venue: Sheraton Centre Hotel in Toronto, Ontario, Canada

Web page: <http://www.apsursi2010.org/>

2.5 EMTS2010

2010 International Symposium on Electromagnetic Theory

Date: 16–19 August, 2010

Venue: Berlin Steigenberger, Berlin, Germany

Web page: <http://www.emts2010.de/>