

Commission B

The “2013 URSI Commission B, International Symposium on Electromagnetic Theory” (EMTS 2013) was held in Hiroshima, Japan, from May 20 to 24, 2013. It was organized by Commission B (Fields and Waves) of the International Union of Radio Science (URSI) and the Electronics Society of The Institute of Electronics, Information and Communication Engineers (IEICE). EMTS 2013 is the 21st event in a triennial series of international symposia with a long history since 1953, and this is the first time held in Japan.

We have received 338 papers and accepted 322 papers for presentation by the Technical Program Committee. Also 24 Young Scientist Award (YSA) papers were selected.

Main symposium venue was the International Conference Center Hiroshima (ICCH), located in Peace Memorial Park, where we had Opening Reception, Opening Ceremony, all Technical (oral and poster) Sessions, Technical Exhibitions, and Plenary Talks, as well as Commission B Business Meetings.

On the third day, the venue was moved to Aki Grand Hotel at Miyajima-guchi, and two Plenary Talks and Poster Presentations by YSA awardees were given. After these sessions, registrants have enjoyed a late-afternoon Miyajima-island visit, followed by the Banquet at the ANA Crowne Plaza Hiroshima Hotel.

Totally 368 persons including 28 accompany persons from 31 countries have attended 54 Technical Sessions and 5 invited Plenary Talks:

- Plenary Talk 1: (12:00-12:40, May 21, 2013)
"Meta-Electromagnetics and Meta-Optics," by Prof. Nader Engheta (University of Pennsylvania).
- Plenary Talk 2: (10:20-11:00, May 22, 2013)
"Assessment of Possible Health Risks of Electro-Magnetic Field Exposures due to Emerging Technologies," by Prof. Masao Taki (Tokyo Metropolitan University).
- Plenary Talk 3: (11:05-11:45, May 22, 2013)
"Recent Advances in Evolutionary Optimization Techniques in Applied Electromagnetics," by Prof. Yahya Rahmat-Samii (University of California Los Angeles).
- Plenary Talk 4: (12:00-12:40, May 23, 2013)
"No One Else Should Ever Suffer As We Did -Reconciliation, Diversity, Tolerance and the Better Angels of our Nature-," by Prof. Tadatoshi Akiba (Hiroshima University).
- Plenary Talk 5: (12:00-12:40, May 24, 2013)

"Recent Advances in Leaky-Wave Antennas," by Prof. David R. Jackson (University of Houston).

Also special Technical Visit to Mazda Museum located in Mazda Motor Corporation Head Office was held.

In conjunction with this symposium, the "URSI Commission B School for Young Scientists" was organized for the first time. This one-day school was held on May 20 at ICCH, prior to the symposium, and is sponsored jointly by URSI Commission B and the EMTS 2013 Local Organizing Committee. In the School, two lectures was delivered by two leading scientists in the Commission B community.

In the morning, the lecture entitled as "The Method of Moments (MoM) Applied to Problems in Electromagnetic Scattering, Radiation, and Guided Waves," was given by Professor Donald R. Wilton (Dept. of ECE, University of Houston, USA). After the lunch, the second lecture entitled as "A Summary of Asymptotic High Frequency (HF) Methods for Solving Electromagnetic (EM) Wave Problems," was given by Professor Prabhakar H. Pathak (Dept. of ECE, The Ohio State University ElectroScience Lab., USA).

50 young scientists attended this school and learned the fundamentals and future directions in the area of electromagnetic theory from these lectures.