

Commission E

Electromagnetic Noise and Interference

During the Maastricht URSI General Assembly, it was decided to slightly change the various working groups (WG) in order to renew and update their field of interest. During this triennium, the WG were:

E.1: Terrestrial and Planetary Electromagnetic Noise Environment

Co-Chairs: M. Hayakawa (Japan), A.P. Nickolaenko (Ukraine), Y. Hobara (France) and M. Füllekrug (Germany)

E.2: Intentional Electromagnetic Interference

Co-Chairs: M. Bäckström (Sweden) and W. Radasky (USA)

E.3: High Power Electromagnetics

Co-chairs: C.E. Baum (USA) and R.L. Gardner (USA)

E.4: Lightning Discharges and Related Phenomena

Co-chairs: Z. Kawasaki (Japan)

E.5: Interaction with and Protection of, Complex Electronic Systems

Co-chairs: J. Nitsch (Germany), P. Degauque (France) and J.P. Parmentier (France)

E.6: Extra-Terrestrial and Terrestrial Meteorologic-Electric Environment

Chair: H. Kikuchi (Japan), E.A. Mareev (Russia)

E.7: Geo-electromagnetic Disturbances and Their Effects on Technological Systems

Chair: A. Viljanen (Finland)

E.8: Interference and Noise at Frequencies above 30 MHz

Chair: J. Gavan (Israel)

Joint Working Group

EGH. Seismo Electromagnetics (Lithosphere-Atmosphere-Ionosphere Coupling)

Co-Chair for Commission E: M. Hayakawa (Japan)

Co-Chair for Commission G: S. Pulinet (Russia)

Co-Chair for Commission H: M. Parrot (France) and O.A. Molchanov (Russia)

During the EMC Zurich meeting in 2000, a discussion took place on the role of these WGs and on a possible change of their role and on the way of conducting their activities. It appears that a majority of attendants was in favor of keeping a light structure and of leaving to the WG co-chairs the responsibility of developing the cooperation within their WG as they want to do.

Most of the Commission E activities have thus been devoted to the organization of meetings and conferences and to the preparation of the New Delhi General assembly.

In Europe, a debate and discussions between the organizers of the main EMC European events took place during the triennium about the idea of merging or not few meetings. For the time being, there is no strong consensus and the number of national or European meetings remains as it was.

Furthermore it must be outlined that, within the EMC conferences, an increasing number of sessions were devoted to applications in different domains as: automotive, railway system, power engineering, etc. and to EMC in wire and wireless communication system.

Commission E has sponsored the following meetings

Meetings	mode
EMF and Cardiac Pacemakers and Defibrillators, Paris, France, 25 October 2002	A
EMC Zurich 2003, Zurich, Switzerland, 18-20 February 2003	B
2003 IEEE Int. Symp. On Electromagnetic Compatibility, Istanbul, Turkey, 11-16 May 2003	B
Telecom 2003 & JFMMA, Marrakech, Morocco, 15-17 October 2003	A
WARS04 (Workshop on Applications of Radio Science) conference 2004, Hobart, Tasmania, Australia, 18-20 February 2004	A
EMC'04 Sendai - 2004 International Symposium on Electromagnetic Compatibility, Sendai, Japan, 1-4 June 2004	A
EMC Wroclaw 2004, Wroclaw, Poland, 29 June - 1 July 2004	B
AP-RASC 04: 2004 Asia-Pacific Radio Science Conference, Beijing, China, 20-23 August 2004	A
Radar 2004, Toulouse, France, 19 - 21 October 2004	A
EMC Zurich 2005, Zurich, Switzerland, 15-17 February 2005	B
Telecom 2005 & JFMMA, Rabat Morocco, 23-25 March 2005	A
Vith International Symposium on Electromagnetic Compatibility and Electromagnetic Ecology, St. Petersburg, Russia, 21-24 June 2005	B
ICEAA'05, International Conference on Electromagnetics in Advanced Applications, Torino, Italy, 12-16 September 2005	A
Microwave, Radar and Remote Sensing, Kiev, Ukraine, 19-21 September 2005	A

These meetings cover nearly all aspects of EMC and its applications.