

Report on the Business Meetings of Commission B during the XXIXth URSI General Assembly, Chicago, USA, August 7-16

Commission B held two Business Meetings on Monday, August 11th and on Wednesday, August 13th, 2008.

Five Student Paper Prizes have been awarded to:

1. Christian Sohl for paper #1162 "SOME PARADOXES ASSOCIATED WITH A RECENT SUMMATION RULE IN SCATTERING THEORY" by C. Sohl, M. Gustafsson, A. Bernland, Lund University, Lund, Sweden.
2. Yvonne Weitsch for paper #1651 "ANON-RADIATING COMPOSITE RIGHT-LEFT-HANDED TRANSMISSION LINE DERIVED FROM SUBSTRATE INTEGRATED RECTANGULAR HOLLOW WAVEGUIDE" by Y. Weitsch, T. F. Eibert, Universität Stuttgart, Stuttgart, Germany.
3. Thomas H. Hand for paper #1856 "CONTROLLABLE MAGNETIC METAMATERIAL USING DIGITALLY ADDRESSABLE SPLIT-RING RESONATORS" by T. H. Hand, S. A. Cummer, Duke University, United States.
4. Jurgen De Zaeytijd for paper #2415 "THREE-DIMENSIONAL LINEAR SAMPLING APPLIED TO MICROWAVE BREAST IMAGING" by J. G. De Zaeytijd, C. L. Conmeaux, A. Franchois, Ghent University, Ghent, Belgium.
5. Taeyoung Yang for paper #2769 "THE DESIGN OF ULTRA-WIDEBAND ANTENNAS WITH PERFORMANCE CLOSE TO THE FUNDAMENTAL LIMIT" by T. Yang, W. A. Davis, W. L. Stutzman, Virginia Tech, United States

Two candidates for Vice-Chair have been nominated:

Giuliano Manara, Italy and

Man-Fai Wong, France.

Giuliano Manara has been elected (and approved by the Council).

Two bids to hold the triennial URSI Commission B International Symposium on Electromagnetic Theory in 2013 have been presented:

Hiroshima, Japan and Toulouse, France. Hiroshima has been elected.

The above International Symposium 2010 will be held in Berlin, Germany; Symposium location will be the Steigenberger Hotel.

The terms or reference of Commission B were extensively discussed during the previous General Assembly in New Delhi, therefore, no further changes have been proposed.

Commission B paper statistics for GA 2008:

- Oral Session Papers 109
- Poster Session Papers 214
- Total Accepted Papers 323

Oral Sessions (B-Core)

- B01 – Electromagnetic Theory, 11 papers
- B02 – Scattering and Diffraction, 10 papers
- B03 – Inverse Scattering, 7 papers
- B04 – Antennas and Arrays, 10 papers
- B05 – Numerical, Asymptotic and Hybrid Methods, 7 papers
- B06 – Transient Fields and Ultra Wide Band Antennas, 7 papers
- B07 – Wave Field Imaging for Homeland Security, 7 papers

Oral Sessions (Joint Core)

- BCD – Physical Limitations of Electromagnetic Metamaterials, 8 papers
- BCK – Body Area Networks, 6 papers
- BK – Future Challenges of Computational Electromagnetics, 11 papers
- BKF – Stochastic Modeling and Uncertainty Management in Electromagnetics, 6 papers

Oral Sessions (Joint from other Commissions)

- HBDGJK – Solar Power Satellites, 7 papers
- EB – EM Modeling for EMC, 10 papers
- KBE – Biomedical Applications: Microwave Breast Imaging, 10 papers

Oral Sessions (New – Extra)

- B08 – UWB Antennas, 6 papers
- B09 – Compact and Wideband Antennas, 6 papers
- B10 – Frequency Domain, 7 papers

Poster Sessions

- General – BP1, BP2, ..., BP23, 146 papers
- BPS1, BPS2, ..., BPS5, 40 papers
- BDPS1, BDPS2, ..., BDPS4, 28 papers
- HP – HBDGJK – Solar Power Satellites, 4 papers

Tutorial

Transmission Line Metamaterials: Fundamentals and Applications
by George Eleftheriades and Ashwin Iyer, University of Toronto

General Lecture

Microwave Imaging in Medicine: Promises and Future Challenges
by Susan Hagness, University of Wisconsin-Madison

The triennial report given by B Chair Lot Shafai covered Meetings and Symposia (EMTS 2007, Ottawa, Canada; CNC/USNC 2007, Ottawa, Canada; URSI GA 2008, Chicago, USA) and Emerging Issues in Commission B (equal voting rights, inactive national chairs, Young Scientist support, Commission and URSI visibility, new scientific research areas, new applied research areas).

Karl J. Langenberg
Chair

Lot Shafai
Past Chair