



International Union of Radio Science U.S. Commission B

R. J. Pogorzelski, Chair
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MINUTES Commission B Business meeting

IEEE AP-S INTERNATIONAL SYMPOSIUM & USNC/URSI NATIONAL
RADIO SCIENCE MEETING
Monterey, CA
June 21, 2004

1. Chair R. J. Pogorzelski called the meeting to order at 17:30 hrs. He welcomed all members and guests. Attendance list is provided at the end of the minutes.
2. The minutes of the Jan. 5, 2004 meeting of USNC/URSI Commission B held at Boulder, CO were approved.

Committee Reports

3. S. Hagness, Chair of the Membership Committee presented the committee report. The committee members are J. W. Mink, L. Kempel, and D. Wilton. Dr. Gianluca Lazzi (North Carolina State University), Dr. Marc E. Kowalski (Stanford Linear Accelerator Center) and Dr. Franco De Flaviis (University of California, Irvine) were nominated for Full Membership. All nominations were approved by a voice vote.
4. John Volakis, Chair of the Technical Activities Committee gave a report. The members of the committee are Prof. George Eleftheriades, Univ. of Toronto, Prof. Nader Engheta, Univ. of Pennsylvania, Dr. Danilo Erricolo, Univ. of Illinois-Chicago, Prof. Joel T. Johnson, The Ohio State Univ., Prof. Eric Michielssen, Univ. Illinois-Champaign Urbana, Prof. Dimitrios Perouris, Purdue University, Prof. John L. Volakis (Chair), The Ohio State University, Prof. Yahya Rahmat-Samii, Univ. of California-Los Angeles, Christos Christodoulou, Univ. of New Mexico, and Jinming Song, Iowa State Univ.
5. John Volakis stated that there were 47 URSI and AP-S/URSI sessions and a total of 381 URSI papers were presented in Monterey, CA. The following were joint sessions with URSI B participation.

- EBG Surfaces I (Per-Simon Kildal, *Chalmers University of Technology, Sweden* N. Engheta, *University of Pennsylvania, USA*) – 12 papers AP/URSI B Joint Special Session
- Smart Electromagnetic Materials, Devices and Applications (Thomas X. Wu, *University of Central Florida, USA* V. Varadan, *Pennsylvania State University, USA*) – 12 papers AP/URSI B Joint Special Session
- Inroads of Multigrid and Domain Decomposition Methods (Romanus Dyczij-Edlinger, *Universitat des Saarlandes, Germany* Jin-Fa Lee, *The Ohio State University, USA*) – 12 papers AP/URSI B Joint Special Session
- EMI/EMC Modeling/Validation Part I (Danilo Erricolo, *University of Illinois at Chicago, USA* Michael Lockard, *Clemson University, USA*) – 11 papers AP/URSI B&E: Joint Special Session
- EBG Surfaces II (Nader Engheta, *University of Pennsylvania, USA* Per-Simon Kildal, *Chalmers University of Technology, Sweden*) – 11 papers AP/URSI B: Joint Special Session
- EMI/EMC Modeling/Validation Part II (Danilo Erricolo, *University of Illinois at Chicago, USA* Robert Gardner, *Consultant, USA*) – 6 papers AP/URSI B&E: Joint Special Session
- EBG/PBG - Based Antennas and Components (Karu Esselle, *Macquarie University, Australia* Raj Mittra, *Pennsylvania State University, USA*) – 12 papers AP/URSI B: Joint Special Session
- Metamaterials for Electromagnetic Applications (George V. Eleftheriades, *University of Toronto, Canada* John L. Volakis, *The Ohio State University, USA*) – 12 papers AP/URSI B: Joint Special Session
- Integration of Antennas in RF/Wireless Packages (Manos M. Tentzeris, *Georgia Institute of Technology, USA* Jennifer Bernhard, *University of Illinois at Urbana-Champaign, USA*) – 12 papers AP/URSI B&D: Joint Special Session
- Enhancing & Hybridizing the FDTD (Massimiliano Marrone, *Pennsylvania State University, USA* Raj Mittra, *Pennsylvania State University, USA*) – 12 papers AP/URSI B: Joint Special Session
- Microscale and Nanoscale Electromagnetics (Douglas Werner, *Pennsylvania State University, USA* Alkim Akyurtlu, *University of Massachusetts Lowell, USA*) – 12 papers AP/URSI B: Joint Special Session
- Tribute to K.K. Mei (Andreas Cangellaris, *University of Illinois at Urbana-Champaign, USA* Jiayuan Fang, *Sigrity, Inc., USA*) – 10 papers AP/URSI B: Joint Special Session
- Metamaterials I (Richard Ziolkowski, *University of Arizona, USA* Nader Engheta, *University of Pennsylvania, USA*) – 12 papers AP/URSI B: Joint Special Session
- Through Wall Microwave Sensing and Imaging (Ahmad Hoorfar, *Villanova University, USA* Nader Engheta, *University of Pennsylvania, USA*) – 12 papers AP/URSI B: Joint Special Session
- Metamaterials II (Nader Engheta, *University of Pennsylvania, USA* Richard Ziolkowski, *University of Arizona, USA*) – 12 papers AP/URSI B: Joint Special Session
- EBG/PBG - Based Waveguiding Structures and Artificial Media (Raj Mittra, *Pennsylvania State University, USA* Karu Esselle, *Macquarie University, Australia*) – 12 papers AP/URSI B: Joint Special Session
- Propagation Modeling for New and Challenging Wireless Communications (Zhengqing Yun, *University of Hawaii, USA* Magdy Iskander, *University of Hawaii, USA*) – 12 papers AP/URSI B: Joint Special Session

6. A report on the upcoming meetings was given by Pogorzelski and Rengarajan. A complete list of future meetings may be found in the AP-S and URSI websites.
(<http://www.ieeeaps.org/> and <http://www.ursi.org/>).
7. There was a lengthy discussion on the number and the process of arranging special sessions and focused sessions. It was agreed that all special sessions and focused sessions should be approved by the Technical Activities Committee.
8. Ross Stone talked about the next URSI General Assembly in India. He recommended Taj Mahal Hotel for stay. Le Meridien hotel is a less expensive alternative.
9. Chair Pogorzelski stated that the delegate selection for the URSI General Assembly will be done by e-mail. Members not interested in attending the General Assembly may state their wish so that others may be considered in their place.
10. Don Dudley stated that J. Van Bladel is in the process of publishing a revised edition of his book on Electromagnetics. Anyone who has a suggestion should contact J. Van Bladel or C. Butler.
11. Old Business: None
12. New Business: None
13. The meeting was adjourned at 18:30 hours.

Guest Attendance List

J. Bach Andersen, Prof. Yahia Antar, Lorena I. Basillo, Deb Chatterjee, Mark Converse, Shakti Das, Gilles Delisle, Zhen Ji, Dr. Ozlem Kilic, Michael Khayat, Xu Li, William Langston, Shantanu Mishra, A.S. Mohan

Members in Attendance

Dr. Edward E. Altshuler, Dr. John S. Asvestas, Dr. Shira Lynn Broschat, Dr. Gary S. Brown, Gerald Burke, Prof. Chalmers M. Butler, Dr. Kendall Casey, Dr. Nathan J. Champagne, Prof. Weng Cho Chew, Dr. William A. Davis, Prof. Donald G. Dudley, Dr. Atef Z. Elsherbeni, Dr. Nader Engheta, Dr. Danilo Erricolo, Dr. Allen W. Glisson, Dr. Levent Gurel, Prof. Susan C. Hagness, Dr. R. C. Hansen, Prof. Randy L. Haupt, Dr. William A. Imbriale, Prof. Akira Ishimaru, Prof. David R. Jackson, Prof. Ramakrishna Janaswamy, Prof. Vikram Jandhyala, Prof. Jianming Jin, Dr. William A. Johnson, Dr. Ahmed Kishk, Dr. Joseph D. Kotulski, Dr. Yasuo Kuga, Prof. Stuart A. Long, Dr. Robert J. Mailloux, Dr. Ronald J. Marhefka, Prof. Raj Mittra, Dr. Hossein Mosallaei, Dr. Krishna Naishadham, Prof. Robert D. Nevels, Dr. Kurt Edmund Oughstun, Dr. Hsueh-Yuan Pao, Prof. L. Wilson Pearson, Dr. Andrew F. Peterson, Dr. Andrew J. Poggio, Dr. Ronald J. Pogorzelski, Prof. Yahya Rahmat-Samii, Dr. Sembiam R. Rengarajan, Dr. Roberto G. Rojas, Dr. Edward J. Rothwell, Dr. S. R. Seshadri, Dr. Balasubriamaniam

Shanker, Dr. Glenn S. Smith, Dr. Jiming Song, Dr. W. Ross Stone, Dr. Allen Taflove, Prof. Erdem Topsakal, Prof. J. Scott Tyo, Prof. Piergiorgio. L. E. Uslenghi, Prof. Kathleen Virga, Prof. John L. Volakis, Prof. Daniel Weile, Dr. Douglas H. Werner, Dr. Jeffery T. Williams, Prof. Donald R. Wilton, Prof. Alexander B. Yakovlev, Dr. Amir I. Zaghloul, Prof. Richard W. Ziolkowski

Respectfully submitted by
Sembiam R. Rengarajan
Secretary