



International Union of Radio Science U.S. Commission B

R. J. Pogorzelski, Chair
D. R. Jackson, Vice-Chair
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MINUTES **Commission B Business meeting**
National Radio Science Meeting
Boulder, CO
January 5, 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 June 23, 2003 meeting of Commission B held at Columbus, OH were approved.
3. Chair Pogorzelski stated that the session chairs should keep a record of no shows and send the list to George Uslenghi.
4. Chair Pogorzelski stated that the USNC has money for student travel support. Student authors enrolled full time in US universities that present at the USNC/URSI meeting are eligible for support of \$600 each approximately. They should apply for it at the time of submitting their papers. USNC hopes to continue supporting students in the future by seeking additional funds from different sources.
5. A report on the upcoming meetings was given. 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/calendar.html>)

URSI EM Theory Symposium	Pisa, Italy	May 2004
APS/URSI	Monterey	June 20-26, 2004
APS/URSI	Washington, DC	2005
APS/URSI/AMEREM	Albuquerque	2006
URSI (US & Canada)	Ottawa, Canada	2007
APS/URSI	San Diego	2008

6. Ross Stone talked about the next URSI General Assembly in India. He recommended Taj Mahal Hotel for stay. Call for papers would appear in the next couple of months. US nationals need a visa to travel in India.

Committee Reports

7. S. Hagness, Chair of the Membership Committee presented the committee report. The committee members are J. W. Mink, L. Kempel, and D. Wilton. Dr. Nathan. J. Champagne (Lawrence Livermore National Laboratory) was nominated for Associate membership. Prof. Erdem Topsakal (Mississippi State University) and Prof. Fernando L. Teixeira (Ohio State University) were nominated for Full Membership. All nominations were approved by a voice vote.
8. John Volakis, Chair of the Technical Activities Committee gave a report. The members of the committee are Prof. George Elefteriades, 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.
9. John Volakis stated that there were 55 special session papers in Boulder 2004. The following special sessions are planned for the 2004 AP-S/URSI meeting in Monterey, CA.
 1. EBG-Based Antennas and Wave-Guiding Structures (Mittra/Esselle), URSI
 2. Through-Wall Imaging and Sensing (Hoorfar/Engheta/Micelli), joint APS/URSI
 3. Electromagnetic Bandgap Surfaces (Engheta/Kildal), joint APS/URSI
 4. Metamaterials (Engheta/Ziolkowski), joint APS/URSI
 5. Metamaterials for EM applications (Elefteriades/Volakis), joint APS-URSI
 6. Microscale & Nanoscale Electromagnetics (Werner/Akyurtlu), joint APS-URSI
 7. EMI/EMC Modeling/Validation, Danilo Erricolo, APS/URSI
 8. Enhancing and Hybridizing the FDTD (R Mittra/Marrone), APS/URSI
 9. Propagation in Urban Environments (Andersh), APS/URSI
 10. Propagation Modeling for New and Challenging Wireless Communications Environments (Iskander), APS/URSI
 11. Smart Electromagnetic Materials and Applications (Thomas Wu), APS/URSI
 12. Honor K.K. Mei, Cangellaris and Fang
 13. Integration of Antennas in RF/Wireless packages, Tentzeris

Other special sessions (not URSI B)

Antennas for WLAN and Bluetooth Applications, Duixian Liu Sooliam Ooi

EM Computational Challenges for Computer-Aided Design of Mixed Signal Integrated Circuit,
V. Janhyala

Antennas for UWB Radio Systems, Chen Z. and Thirsten

Dielectric Measurements and Sensors, Ramahi, Omar

Evolutionary optimization techniques in applied EM: new frontiers, Rahmat-Samii and
Michielssen, E.

In Roads for Multigrid and Domain Decomposition Methods to CEM, JinFa Lee

Antennas and Propagation in MIMO Systems (Wiebeck and Jensen)
Propagation in Caves and Tunnels (Dudley/Casey), APS
30 Years of NEC (John W. Rockway), APS

- 10.** Pogorzelski stated that anyone interested in proposing a special session for Boulder 2005 should contact John Volakis.
- 11.** Chair Pogorzelski stated that the delegate selection process for the next General Assembly will start next July.
- 12.** Chair talked about the nominations for various awards (Booker Gold medal, Appleton, Dellinger, Van der Pol, and Koga). He said that there will be a committee to recommend the nominations.
- 13.** David Jackson and Jennifer Bernhard were nominated for the member at large position of USNC and were approved.
- 14.** Susan Hagness and John Shaumberg were nominated for the AP-S and MTT-S representative positions of USNC respectively.
- 15.** Gary Brown proposed that each year one or two commissions of USNC/URSI be asked to energize/revitalize the Boulder meeting. They will arrange special focus sessions including the plenary session. Commissions will collaborate in rotation every five years. It was the sense of the Commission B members that it is a good idea. It was also suggested that USNC form a technical coordinating committee.
- 16.** Old Business: None
- 17.** New Business: None
- 18.** The meeting was adjourned at 18:30 hours.

Guest Attendance List

Reyhan Baktur, Dr. Mark Converse, Aycan Ereutok, Todd Larsen, Gianluca Lazzi, Mike Lockard.

Members and Associate Members in Attendance

Dr. Carl E. Baum, Dr. Jennifer Bernhard, Prof. Gary Brown, Prof. Chalmers M. Butler, Dr. William A. Davis, Dr. Nader Engheta, Dr. Danilo Erricolo, Dr. Robert L. Gardner, Dr. Allen W. Glisson, Prof. Susan C. Hagness, Dr. David A. Hill, Prof. David R. Jackson, Prof. Robert D. Nevels, Dr. Kurt E. Oughstun, Prof. Wilson Pearson, Dr. Ronald J. Pogorzelski, Prof. Yahya Rahmat-Samii, Dr. Sembiam R. Rengarajan, Dr. W. Ross Stone, Prof. Piergiorgio. L. E. Uslenghi, Prof. John L. Volakis, Prof. Donald R. Wilton, Prof. Richard W. Ziolkowski.

Respectfully submitted by
Sembiam R. Rengarajan
Secretary