



International Union of Radio Science U.S. Commission B

Please reply to:

D. R. Wilton, Chair
P. L. E. Uslenghi, Vice-Chair
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MINUTES Commission B Business meeting

URSI / IEEE-APS Symposium
Renaissance Orlando Hotel
Orlando, FL
July 12, 1999

1. The meeting was called to order by Chair Donald R. Wilton at 17:10 hours. The Chair welcomed all members and guests. A list of members and guests in attendance is provided at the end of these minutes.
2. The minutes from the 1999 Boulder meeting were approved.

CHAIR'S REPORT

3. The Chair expressed thanks to all of the outgoing URSI U.S. Commission B officers whose three-year terms are ending this year. The exiting officers include Donald R. Wilton, Chair; George Uslenghi, Vice-Chair; David R. Jackson, Secretary; Richard W. Ziolkowski, Chair of the Technical Activities Committee; and Ronald J. Pogorzelski, Chair of the Membership Committee.
4. George Uslenghi will become Chair of U.S. Commission B at the end of this year, replacing Donald R. Wilton. George Uslenghi introduced the new slate of officers for the coming triennium for U.S. Commission B. Ronald J. Pogorzelski will be the new Vice-Chair. One of his functions in this role will be to serve as coordinator of the student paper contest held each year at the Boulder meeting. He has also agreed to continue in his role as Chair of the Membership Committee. David Jackson will be the new Chair of the Technical Activities Committee. Sharad Laxpati will be the new Secretary. George Uslenghi also announced the creation of a new position, that of Webmaster for U.S. Commission B. Our first Webmaster will be Danilo Erricolo from the University of Illinois at Chicago.

5. George Uslenghi expressed sincere thanks, on behalf of U.S. Commission B, to Donald Wilton for his excellent service during the past triennium as Chair of U. S. Commission B.
6. The Chair reviewed the Commission's activities of the preceding year in preparation for the General Assembly:
 - a. The process of collecting references for the U.S. Commission's contributions to the Review of Radio Science 1997-1999 was completed and the collected references were submitted last October; the Review should be available for distribution at the General Assembly.
 - b. Beginning last Fall, the U.S. Commission also submitted nominations for the Booker Award and for the Koga, Van der Pohl, and Dellinger gold medals. The Booker Award is a USNC young scientist award presented every three years; the gold medal awards are international URSI awards presented at the General Assembly. Award winners for each of these awards have been selected and the Commission is pleased to announce the following Commission winners:
 - 1) As reported in the minutes of the 1999 Boulder meeting, Prof. Eric Michielssen won the 1999 Booker Award. The prize was awarded at the 1999 Boulder meeting.
 - 2) Prof. Michielssen was also nominated and selected to receive the Koga Gold Medal Award for 1999.
 - 3) Prof. Akira Ishimaru was nominated and selected to receive the Dellinger Gold Medal for 1999.

The Chair recognized the winners and conveyed the Commission's congratulations to each.

- c. The Chair discussed the process by which the 17 Participants to the General Assembly were selected. (These U. S. Commission B members will receive partial support from the National Academy of Science to attend the 1999 General Assembly in Toronto). The selection process was made by first starting with a list of members who received the highest rankings on the Participant ballot; adjustments to this list were then made to include any other active members who would have significant participation in the General Assembly (e.g., organizing special sessions or giving tutorial presentations). In addition to the 17 Participants, a number of Commission members will receive support to attend the General Assembly by virtue of their being officers of Commission B, other commissions of USNC, or of URSI at the international level. Apparently, checks have already been mailed to Participants, and those receiving *ex officio* support should receive their checks soon.
- d. Future URSI-related meetings were noted. A listing of upcoming meetings, and their dates, is given below.

XXVI URSI General Assembly	Toronto	Aug. 13 – 21, 1999
National Radio Science Meeting	Boulder	Jan. 5 – 8, 2000
AP-S/URSI Meeting	Salt Lake City	July 16-21, 2000

An up-to-date list of future meetings may be found in the IEEE Antennas and Propagation Society Magazine.

7. It was noted that at the previous U. S. Commission B Business Meeting in Boulder, the Commission voted to approve participation in all future AP-S meetings through 2003. It was further noted that the Joint Meetings Committee recently recommended approval of a proposal to host the AP-S meeting in Monterey in 2004. The AP-S AdCom has also approved the proposal. It was therefore moved, seconded, and approved that Commission B also participate in the Monterey meeting in 2004.
8. Proposals are being entertained for locations to host the EM Theory Symposium in 2004. The climate appears to be favorable for holding the next Symposium in the U.S.
9. It was noted that there will be a special memorial session for Jim Wait at the 2000 Boulder meeting, organized by Dave Hill, which is joint with commissions B, A, F, G, H, and K.
10. The Chair noted special sessions of interest at the present AP-S/URSI Symposium, including an all-day memorial session for Ralph Kleinman, a memorial session for Ralph Hiatt, and a special session honoring Don Dudley, the Commission's immediate past Chair. There will also be a special luncheon honoring Don Dudley.

COMMITTEE REPORTS

11. Rick Ziolkowski presented the report of the Technical Activities Committee (TAC). The TAC committee consists of R. Ziolkowski (Chair), A. Cangellaris, D. Jaggard, R. Pogorzelski, and J. Williams.

Some statistics from the Orlando meeting were summarized. It was noted that there was a total of 269 Commission B-related presentations at the meeting. The breakdown includes 19 Commission B sessions (176 papers), 7 sessions that were joint between AP and Commission B (65 papers), one session joint between AP, and Commissions A and B (9 papers), one session joint between AP and Commissions B and F (10 papers), and one session joint between Commissions B and F (9 papers).

The special sessions at the Orlando meeting are listed below, along with the session organizers:

- An all-day memorial session for Prof. Ralph E. Kleinman, called *Applied Mathematics in Electromagnetics* (Don Dudley, Chalmers Butler, and Tom Angell).
- A joint AP-S/URSI special session on Conformal Antennas (Doug Werner and Leo C. Kempel).
- A joint AP-S/URSI special session honoring Prof. Donald G. Dudley (Bill Johnson and H.-Y. Pao).

Rick Ziolkowski encouraged members to suggest topics for special sessions for the AP-S/URSI 2000 meeting in Salt Lake City. Please forward ideas to David Jackson, the incoming Chair of the TAC.

For the Boulder 2000 meeting, a number of special sessions have already been planned, and these are listed below.

- B: Ultra Broadband Antennas for Wireless Communications (C. Butler, Clemson U.).
- Joint B/D: Active Antennas (L. Wilson Pearson, Clemson U.).
- Joint B/D: Photonic Bandgap Structures (D. Yang, UIC and R. Ziolkowski, U. Arizona).
- Joint B/A/F/G/H/K: Memorial Session for J. R. Wait (D. Hill, NIST).
- Joint B/F: Rough Surface Scattering (A. Maradudin, UC Irvine and G. Brown, VPI).
- Joint B/D: Optical Radio Communications (G. Hyde).
- Joint B/J: Advances in Reflector Antenna and Radio Telescope Design (Y. Rahmat-Samii, UCLA and J. Baars, U. Massachusetts).

It was noted that is not too late to organize other special sessions for the Boulder 2000 meeting, but if anyone is interested in doing so, this must be done very soon. It was noted that the deadline for receipt of abstracts for the Boulder 2000 meeting is Sept. 13, 1999.

12. Ronald Pogorzelski presented the Membership Committee report. The Committee consists of Ronald J. Pogorzelski, Robert E. Collin, Steven L. Dvorak, and James W. Mink.

- Prof. Leo Kempel (Michigan State University) and Capt. J. Scott Tyo (Naval Postgraduate School) were both elected full members of USNC-URSI Commission B.

13. D. Wilton, as Chair of the Raj Mittra Travel Grant Committee, presented the Committee's report. Other members of the Committee are G. Brown, D. Dudley, T. Itoh, and Y. Rahmat-Samii. The Raj Mittra Travel Grant award is sponsored jointly between IEEE AP-S and URSI U. S. Commission B.

- The Senior Researcher Award (\$1000) went to Nihad I Dib (Jordan).
- The Junior Researcher Award (\$750) went to Gennadiy P. Pochanin (Ukraine).

Although AP-S AdCom has approved the waiving of Symposium registration fees for certain travel grants, it is not clear that the Raj Mittra Travel Grants qualify for these waivers. Some coordination between the Commission and AP-S is needed to clarify the situation.

OLD BUSINESS

There was no old business.

14. The meeting was adjourned at 17:50 p.m.

Attendance List

Guests in attendance:

Jack Anderson (Raytheon), Y. M. M. Antar (CNC/URSI Comm. B. Chair), Magda El-Shenawee (Northeastern U., Boston), D. Erricolo (U. of Illinois at Chicago), Cathy Freeman (EMS Technologies), Cindy Furse (Utah State U.), Jerry M. Grimm (Nokia Telecomm.), George Hagn (consultant), Susan C. Hagness (U. Wisconsin at Madison), Mike Havrilla (Michigan State U.), Vahraz Jamnejad (JPL), Mingming Jiang (Polytechnic U.), Leo Kempel (Michigan State U.), Hsueh-Yuan Pao (Lawrence Livermore Natl. Lab.), Melinda Piket-May (U. Colorado at Boulder), Ahmad Safaai-Jazi (Virginia Tech.), Magdalena Salazar-Palma (from Polytechnic U. of Madrid, Spain, representing URSI Comm. B.), Tadashi Takano (Inst. of Space and Astron. Sci. (ISAS)), David Tanner (Lockheed Martin), P. M. Van Den Berg (Delft U. of Technology), Kathleen Virga (U. Arizona), Karl Warnick (U. of Illinois at Urbana-Champaign), Bill Weedon (Applied Radar, Inc.).

Members and Associate Members in attendance:

T. S. Angell, J. S. Asvestas, G. S. Brown, R. J. Burkholder, C. M. Butler, W. C. Chew, R.-S. Chu, W. A. Davis, D. Dudley, A. El Sherbeni, N. Engheta, L. B. Felsen, A. W. Glisson, R. C. Hansen, R. L. Haupt, B. Imbriale, A. Ishimaru, D. R. Jackson, R. Janaswamy, J. T. Johnson, W. A. Johnson, M. Kanda, E. F. Kuester, S. Laxpati, H. Ling, S. Long, R. J. Mailloux, R. J. Marhefka, E. Michielssen, E. K. Miller, R. D. Nevels, D. P. Nyquist, K. E. Oughstun, L. W. Pearson, A. F. Peterson, A. Poggio, R. J. Pogorzelski, Y. Rahmat-Samii, S. R. Rengarajan, E. J. Rothwell, T. Sarkar, D. H. Schaubert, A. C. Schell, D. L. Sengupta, G. S. Smith, J. Song, W. Ross Stone, W. L. Stutzman, T. Tamir, C. D. Taylor, B. Tomasic, P. L. E. Uslenghi, J. L. Volakis, D. H. Werner, D. R. Wilton, A. I. Zaghloul, R. W. Ziolkowski.

David R. Jackson

Secretary, U. S. URSI Commission B

July 21, 1999