



International Union of Radio Science U.S. Commission B

Please reply to:

D. R. Wilton, Chair
P. L. E. Uslenghi, Vice-Chair
D. R. Jackson, Secretary

David R. Jackson
Dept. of ECE
University of Houston
Houston, TX 77204-4793

phone: (713) 743-4426
fax: (713) 743-4444
email: djackson@uh.edu

MINUTES Commission B Business meeting

URSI / IEEE-APS Symposium
Renaissance Waverly Hotel
Atlanta, GA
June 22, 1998

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 in attendance is provided at the end of these minutes.
2. The minutes from the 1998 Boulder meeting were approved.

CHAIR'S REPORT

3. The Chair noted with regret the passing of Profs. Ralph Kleinman and Georges Deschamps. A moment of silence was held to honor their passing.
4. The updating of the URSI Commission B membership list was discussed. The membership list must be updated so that participant selection for the General Assembly can proceed. It was proposed to maintain two categories in the membership list, "active" and "inactive". The inactive members would be those who have not attended a Commission B business meeting within the last three years. All members would continue to receive copies of the minutes, but only the active members would be counted in determining the number of official Commission participants in the General Assembly. It was noted that URSI-USNC is in the process of compiling an electronic membership database.
5. Preparation is beginning on three URSI publications to be available for distribution at the forthcoming General Assembly: Review of Radio Science 1997-1999, a review of important advances in research over the last few years; Modern Radio Science 1999, a collection of topical and tutorial lectures characterizing recent commission research activities; and a CD ROM containing references from 1995-1998.

6. The URSI Award nominations were discussed. The senior awards include the Van der Pohl medal, the Dellinger Medal, and the Appleton Prize. The junior awards include the Koga Medal, the Booker Fellowship, and the Young Scientist Awards. The executive committee of Commission B will begin to consider potential nominees.
7. The Raj Mittra Travel Grant was discussed. In the senior category, the award winner was Prof. Y. S. Shifrin (Ukraine). In the junior category, two awards were made, to D. Skigin (Argentina) and S. Dimir (Turkey).
8. Brief reports on recent URSI related meetings were given and future meetings were discussed. AP-S/URSI meeting locations, contact persons, and dates are as follows:

Montreal	S. Kubina	July 13 – 18, 1997
Atlanta	A. Peterson	June 21 – 26, 1998
Orlando	C. Christodoulou	July 11 – 16, 1999
Salt Lake City	M. Iskander	June 25 – July 1, 2000
Boston	R. McGahan	July 8 – 13, 2001
San Antonio	R. Nevels	June 16 – 21, 2002
Columbus	W. Burnside	June 23 – 27, 2003
Calgary	R. Johnston	June 26 – July 3, 2004

Various US and international URSI meetings of interest are as follows:

URSI EM Theory Symposium	Thessaloniki	May 25 – 28, 1998
National Radio Science Meeting	Boulder, CO	Jan 4 – 8, 1999
XXVI URSI General Assembly	Toronto	Aug. 13 – 21, 1999
URSI EM Theory Symposium	Victoria	May 13 – 16, 2001

Andy Peterson summarized some statistics from the 1998 AP/URSI meeting. He noted that there were 896 papers submitted, and 980+ registrants. Approximately 83% of the submissions were made electronically.

Special thanks were given to Anthony Martin of Clemson University for the electronic processing of the papers for the Thessaloniki and Atlanta meetings.

9. Chalmers Butler discussed the issue of URSI involvement in education. It was noted that the National Academy of Sciences supports such activities. One specific point raised was that due to pressures to quickly establish their research programs, young faculty members do not seem to develop laboratory experiments related to radio science any more. It was proposed that URSI collect a set of exciting radio science related experiments or computer

demonstrations across commissions which would be portable and made available at a modest cost to universities. It was noted that a special session at the next Boulder meeting (1999) on the topic of radio-science experiments is planned.

COMMITTEE REPORTS

10. Rick Ziolkowski gave the report by the Technical Activities Committee (TAC). The TAC committee consists of R. Ziolkowski (U. of Arizona), A. Cangellaris (U. of Illinois), D. Jaggard (U. of Pennsylvania), J. Williams (U. of Houston), and R. Pogorzelski (JPL). Some statistics from the Atlanta meeting were summarized. It was noted that there were 294 Commission B related presentations at the meeting, 20 Commission B sessions, 10 sessions that were joint between AP and Commission B, and 2 sessions that were joint between AP and Commission D.

The special sessions at the Atlanta meeting included the following:

- Microwave and radar imaging (R. McGahan and R. Kleinman)
- Domain decomposition and diakoptics for efficient EM computation (A. Cangellaris and A. Ruehli)
- Antenna applications of photonic band gap materials (D. Yang)
- Novel trends in theoretical electromagnetics (N. Engheta)
- MicroElectroMechanical Systems (MEMS) (P. Uslenghi)
- Honorary session for Tom Senior (J. Volakis)
- Honorary session for Robert Collin (I. Besieris and M. Sancer)
- Memorial session for Karl Kunz (A. Ferraro and R. Mittra)

For the Boulder 1999 meeting, two special sessions have already been planned:

- Optical radio communications (G. Hyde)
- Micromachined antennas, components, and devices (L. Katehi and G. Rebeiz)

It was noted that 63 out of 294 total URSI presentations (about 21%) were in special sessions at the Atlanta meeting, making special sessions an important part of the meetings. Suggestions were solicited for additional special session topics at the 1999 Boulder meeting, and also for the 1999 AP/URSI meeting in Orlando.

11. Ronald Pogorzelski presented the Membership Committee report.

- Eric Michielssen of the University of Illinois was elected a full member of USNC-URSI Commission B.

- It has been proposed that membership nomination forms be made available on a Web page in the future. USNC is also working on establishing a commission-wide membership form.

OLD BUSINESS

12. Chalmers Butler encouraged applications for Young Scientist Awards for attending the General Assembly. Applicants must be under 35 years of age.
13. The meeting was adjourned at 17:58 p.m.

Attendance List

Guests in attendance:

Y. M. M. Antar (CNC/URSI Comm. B. Chair), N. Champagne (LLNL), D. Erricopo (University of Illinois at Chicago), R. Graglia (Politecnico di Torino, Italy), P. Goggans (U. of Mississippi), J. B. Grant (LLNL), K. Ito (Chiba U., Japan), A. Jaggard (U. of Pennsylvania), J. LaPean (Aerospace Corp.), G. Manara (U. of Pisa, Italy), J. Norgard (U. of Colorado, Co. Springs), M. Orfice (Politecnico di Torino, Italy), S. Selleri (U. of Florence, Italy), R. Sharpe (LLNL), R. Tiberio (U. Siena).

Members and Associate Members in attendance:

T. S. Angell, I. M. Besieris, G. S. Brown, G. Burke, R. J. Burkholder, C. M. Butler, K. C. Chen, W. C. Chew, R.-S. Chu, R. E. Collin, W. A. Davis, R. Dybdal, A. El Sherbeni, N. Engheta, L. B. Felsen, A. W. Glisson, R. C. Hansen, G. W. Hanson, R. L. Haupt, D. A. Hill, A. Ishimaru, T. Itoh, D. R. Jackson, D. L. Jaggard, J. Jin, W. A. Johnson, A. Kishk, R. G. Kouyoumjian, R. Lee, J. C. Lin, H. Ling, S. Long, R. J. Mailloux, R. J. Marhefka, K. A. Michalski, E. K. Miller, R. Mitra, K. Naishadham, R. D. Nevels, D. P. Nyquist, P. Pathak, L. W. Pearson, A. F. Peterson, R. J. Pogorzelski, Y. Rahmat-Samii, S. M. Rao, S. R. Rengarajan, T. Sarkar, D. H. Schaubert, A. C. Schell, D. L. Sengupta, R. A. Shore, G. S. Smith, J. Song, W. Ross Stone, W. L. Stutzman, G. P. Tricoles, L. Tsang, K. R. Umashankar, P. L. E. Uslenghi, J. L. Volakis, D. H. Werner, D. R. Wilton, J. L. Young, A. I. Zaghoul, R. W. Ziolkowski.

David R. Jackson

Secretary, U. S. URSI Commission B

Dec. 18, 1998