



International Union of Radio Science U.S. Commission B

Please reply to:

P. L. E. Uslenghi, Chair
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MINUTES Commission B Business meeting

National Radio Science Meeting
Boulder, CO
January 6, 2000

1. The meeting was called to order by Chair P. L. E. Uslenghi at 18.01 hrs. He welcomed all members and guests. Attendance list is provided at the end of the minutes.
2. The minutes of the July 12, 1999 meeting of Commission B held at Orlando, FL were approved.
3. The chair expressed thanks to the outgoing Commission B Officers: Chair D. Wilton, Secretary D. Jackson and Technical Activities Committee Chair R. Ziolkowski. The new officers were introduced: Ronald Pogorzelski, Vice-Chair; Sharad Laxpati, Secretary; David Jackson, Chair, Technical Activities Committee; and Ronald Pogorzelski, Chair, Membership Committee.

Report from the Chair

4. The Chair announced that the new International URSI-B Chair and Vice-Chair are Prof. Ström (Sweden) and Prof. Ando (Japan), respectively. Also, Prof. E. Michielssen (USA) was the 1999 Koga Gold Medal Award winner and Prof. A. Ishimaru (USA) was the 1999 Dellinger Gold Medal Award winner. Congratulations to the winners!
5. The results of the Student Paper competition that was held that morning were announced. Three finalists presented their papers and were judged by Commission Chairs (R. Pogorzelski represented P. Uslenghi). First place winner was M. J. Starks (Commission F) from MIT. Second place award went to D. Torrungueng (Commission B/F) from Ohio State. And You Chung Chung (Commission B) from Univ. of Nevada, Reno was placed third.

6. A report on the upcoming meetings was given. For report on the present Boulder meeting, see TAC report below. A chronological list of proposed meetings with location and dates is given below.

APS/URSI	Salt Lake City	July 16-21, 2000
Nat. Radio Sci.	Boulder	January 3-7, 2001
URSI EM Theory Symposium	Victoria	May 13-17, 2001
APS/URSI	Boston	July 8-13, 2001
APS/URSI	San Antonio	June 16-21, 2002
URSI General Assembly	Maastricht, NL	Late August 2002
APS/URSI	Columbus	June 23-27, 2003
APS/URSI	Monterey	June 20-26, 2004

The Joint Symposium Committee has received preliminary proposals for 2005 meeting in Washington, DC area and for 2006 meeting in Albuquerque, NM (joint meeting with HPEM). The committee declined the Calgary proposal for 2005, since no representative has been in attendance at the last two meetings of the committee.

7. P. Uslenghi noted that a Joint North American URSI meeting is due. With the withdrawal of Calgary, currently a proposal is floated to hold such a meeting in 2003 in Columbus (with concurrence of the meeting organizers) and invite Mexico URSI to participate. He sought a sense of the members about such a plan. The members supported it enthusiastically and unanimously.
8. A discussion was held regarding the site for 2005 General Assembly. There was a unanimous support for US hosting that meeting. Proposal for 2004 EM Theory Symposium is due before Victoria meeting and Chair indicated that US may wish to host that symposium.
9. Future of the January National Radio Science meeting was discussed at length. It is too late to change the January 2001 meeting site from Boulder. It appears that only Commission B was interested in other venues. However, it was the sense of the members that it was not practical to move the venue from Boulder. Following motion was made and approved unanimously.

We continue to have future January meeting in Boulder, but that we provide to the local organizers the technical support necessary to continue to hold the meetings in Boulder.

10. A membership roster with mailing addresses was circulated. Members were asked to update their information. A need for purging the roster of inactive members as well as for recruiting new members was expressed.
11. There was a vacancy for member-at-large on USNC and the Chair asked for Commission B nomination. After some discussion and based on the Commission B members currently on USNC, the membership decided to take a pass on the nomination this time, but expressed the desire to nominate one at the next available opportunity.

12. P. Uslenghi discussed the need to revitalize URSI to attract young scientists, an issue discussed at the USNC meeting. Nominations for a committee were sought. Names of A. Prata, K. Virga and E. Michielssen surfaced. P. Uslenghi, after talking to these individuals, will recommend nomination(s) to USNC.
13. The Chair apprised the members of the USNC plans to internationalize the Booker Award which currently is a national one. There was considerable discussion on this issue including that of Booker award vis-à-vis Koga award. In the end the members agreed that they had no firm recommendation to make; a concern was voiced that Booker Award may not remain for a young scientist. P. Uslenghi will convey this sentiment at the USNC Executive Committee meeting.

Committee Reports

14. D. Jackson presented the Technical Activities Committee report. The Committee members for 2000-2003 term are: N. Engheta; J. T. Johnson; T. K. Sarkar; J. T. Williams; and D. H. Y. Yang.
- A summary of the Commission B session and joint sessions involving Commission B at the 2000 Boulder meeting was presented. There were 2 URSI B sessions (16 papers) and 7 joint sessions (55 papers) with URSI B. The total number of sessions (9) and papers (72) roughly equals that for last year. However, there was a concern expressed by the members about diminishing number of URSI B only papers. The details of joint sessions with organizers in parenthesis are as follows:
 - B/D session: *Photonic Band Gap Structures* (R. Ziolkowski)
 - B/D session: *Active Antennas* (L. W. Pearson)
 - B/F session: *Rough Surface Scattering Physics* (A. Maradudin and G. Brown)
 - B/F session: *Rough Surface Scattering Applications and Methods* (A. Maradudin and G. Brown)
 - B/J session: *Advances in Reflector Antenna and Radio Telescope Design* (Y. Rahmat Samii and J. Baars)
 - B/A/E/F/G/H/K session: *Memorial Session 1 for James R. Wait*. (D. Hill)
 - B/A/D/E/F/G session: *Memorial Session 2 – Geoelectromagnetics – A topic of Lifelong Interest to James R. Wait*. (G. Hagn)
 - The usual list of Commission B topics for the 2000 AP-S/URSI meeting in Salt Lake City was approved. Also, the following special sessions involving Commission B are being organized.
 - *Microwave Theory and Applications of Photonic Band-Gap Engineering* (H. Y. David Yang)
 - *Recent Development in Theoretical Electromagnetics* (tentative title) (N. Engheta)
 - *LGA (Low Grazing Angle) Rough Surface Scattering* (James C. West)
 - *CAD Tools for Antennas and Microwave Circuit Modeling* (J. Mosig and R. Mittra)
 - *Future Direction of Wireless Revolution* (Kagoshima and R. Mittra)
 - *Multimedia Education in Electrical Engineering* (P. L. E. Uslenghi and M. Iskander)

- David V. Arnold is the contact person for the Salt Lake City meeting. However, D. Jackson will be the coordinator for URSI and should be contacted for support.
- D. Jackson invited members to contact him with ideas and suggestions for special sessions for the Boulder 2001 meeting. (djackson@uh.edu). It was noted that all special sessions are to be defined by URSI TAC.

15. R. Pogorzelski, Chair of the Membership Committee presented the committee report. The committee members are J. W. Mink, R. E. Collin, S. L. Dvorak and D. Wilton.

- Hsueh-Yuan Pao (LLNL) was nominated for Associate Membership. Kathleen Virga (Univ. of Arizona) and Melinda Picket May (Univ. of Colorado) were nominated for Full Membership. William A. Johnson (Sandia National Lab) was recommended for advancement from Associate to Full Membership. All nominations were approved unanimously.

16. P. Uslenghi discussed a proposal for Walk-on Sessions. A subcommittee will evaluate the abstract. A session was approved on a trial basis for Salt Lake City.

17. Old Business: None.

18. New Business: None.

19. The meeting was adjourned at 19:24 hours.

Guest Attendance List

Vittorio Celli (Univ. of Virginia, Charlottesville, VA), George Hagn (Consultant, Annandale, VA), Melinda Picket-May (Univ. of Colorado, Boulder, CO) and Seong-Youp Suh (Virginia Tech, Blacksburg, VA).

Members and Associate Members in Attendance

C. E. Baum, H. L. Bertoni, G. S. Brown, C. M. Butler, W. A. Davis, R. L. Gardner, A. W. Glisson, Jr., A. Q. Howard, A. Ishimaru, D. R. Jackson, S. R. Laxpati, A. A. Maradudin, R. V. McGahan, R. V. Nevels, L. W. Pearson, R. J. Pogorzelski, Y. Rahmat-Samii, W. Ross Stone, P. L. E. Uslenghi, D. R. Wilton.

Respectfully submitted by
 Sharad R. Laxpati
 Secretary
 June 16, 2000 (revised July 20, 2000)