



**International Union of Radio Science      U.S. Commission B**

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*Please reply to:*

P. L. E. Uslenghi, Chair  
R. J. Pogorzelski, Vice-Chair  
S. R. Laxpati, Secretary

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**MINUTES      Commission B Business meeting**

National Radio Science Meeting  
Boulder, CO  
January 8, 2001

1. Chair P. L. E. Uslenghi called the meeting to order at 16:45 hrs. He welcomed all members and guests. Attendance list is provided at the end of the minutes.
2. The minutes of the July 17, 2000 meeting of Commission B held at Salt Lake City, Utah were approved.

**Report from the Chair**

3. 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. It was noted that there would be no Boulder meeting in January 2003 because of the North American Radio Science Meeting in Columbus, OH in 2003.

URSI EM Theory Symposium	Victoria	May 13-17, 2001
APS/URSI	Boston	July 8-13, 2001
National Radio Science	Boulder	January 9-12, 2002
APS/URSI	San Antonio	June 16-21, 2002
URSI General Assembly	Maastricht, NL	Late August 2002
<i>No boulder meeting in January 2003</i>		
APS/North American Radio Science	Columbus	June 23-27, 2003
National Radio Science	Boulder	January 2004
URSI EM Theory Symposium	Egypt	Spring 2004
APS/URSI	Monterey	June 20-26, 2004
APS/URSI	Washington, DC	2005

4. P. Uslenghi indicated for San Antonio meeting we would go back to the list of topics that were used for Atlanta meeting.
5. The chair asked T. Senior to brief the members about Booker Gold Medal status. T. Senior informed that the URSI had approved a new award, the Booker Gold Medal to be awarded at General Assembly for outstanding work in Telecommunication and related area and will be open to all scientists world wide. This new medal is the fifth Gold Medal that will be awarded. The Booker Fellowship for young US Scientist will continue to be awarded by US URSI, but the award will be capped at \$2,000.00.
6. P. Uslenghi informed the members that USNC will submit a US proposal for 2005 General Assembly and has selected Denver as the site.
7. The student paper competition was to be held the following day. Commission Chairs for presentation selected three papers from ten submissions. They are in order of their ranking (*Note that this ranking was not available at the time of the meeting, and is added here for completeness*)

“Laboratory Measurements of the Microwave Opacity of Phosphine: Opacity Formalism and Applications to the Atmospheres of the Outer Planets” by James P. Hoffman and Paul G. Steffes, Georgia Institute of Technology (Commission J)

“Experimental Results for Adaptive Radar Imaging in a Wide Angular Sector” by Mark Curry and Yasuo Kuga, Univ. of Washington, Seattle (Commission B )

“A Novel Technique for Estimating Gate Resistance, Parasitic Inductances, and Pad Capacitances for MESFETs” by Yaser A. Khalaf and Sedki M. Riad, Virginia Tech (Commission D)

8. S. Laxpati informed the members that a letter will be sent to the members regarding the status of their membership and inform those members who have not attended a Commission B business meeting since 1990 that they should participate in Commission B affairs during the next year to continue their membership. It was decided that the letter will be sent only to those members who have not attended since 1990.

### **Committee Reports**

9. 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 2001 Boulder meeting was presented. There were 23 URSI B sessions and 7 joint sessions with URSI B. The total number of sessions at the symposium was 42. There

was an increase in overall attendance at the symposium, however the Chair expressed a concern that the URSI B attendance may be down. The details of Special Sessions involving URSI B, with organizers in parenthesis, are as follows:

- B/F session: *Rough Surface Scattering and Related Problems* (G. Brown and A. Maradudin)
  - B/F session: *Propagation Modeling and Measurements* (G. Brown and A. Maradudin)
  - B/D session: *Electromagnetic Band Gap Structures and Applications* (R. Ziolkowski and H. Y. Yang)
  - B/D session: *EPG/PPG Terminology Discussion* (R. Ziolkowski)
  - A/B/E/ session: *Numerical Techniques for EMC/EMI Problems* (Chris L. Holloway and Sabrina Sarto)
- Following special sessions, involving Commission B, are being organized for the Boston meeting:
    - *Grand Challenges in Computational Electromagnetics* (Raj Mittra) AP-S/URSI-B
    - *History of Modern Electronics and Communications* (Tapan Sarkar) AP-S/URSI-B
    - *Rough Surface Scattering: Theory and Applications* (Joel T. Johnson and Magda El-Shenawee) URSI-B
  - Following special sessions, involving Commission B, are planned for Boulder 2002:
    - *Electromagnetic Interactions with Complex Platforms* (George Uslenghi and Chalmers Butler) URSI A/B
    - *Advances in FDTD* (Susan Hagness and M. Picket-May) URSI-B

**10.** 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.

- There were two nominations for Full Membership. Dr. J. B. Kotulski (Sandia National Lab) and Prof. B. Shanker (Iowa State University). After some discussion, J. Kotulski nomination was approved (12 Yes, 4 No); B. Shanker nomination was approved by a voice vote.

**11.** P. Uslenghi announced that there were three Members-at-Large vacancies on USNC and called for nominations. D. Wilton (member B & D) and Y. Rahmat-Samii (member A, B, J & K) were nominated and approved unanimously. P. Uslenghi will forward the names to USNC.

**12.** Nominations for Vice-President of URSI are due soon. It was pointed out that it is possibly a 12 year commitment. Nominations should be submitted to G. Brown or to T. B. A. senior, who is the Chair of the nominating committee.

13. Old Business: None.

14. New Business: D. Wilton invited nominations for Raj Mittra Travel Grant, which supports three (two junior and one senior) scientists from underdeveloped countries. He noted that nominations outside US have declined in recent years and indicated that a strong US junior candidate could be supported. He also briefly reviewed the guidelines for this award.

The grant provides partial support for travel to Summer APS/URSI meeting. Senior scientist (who has received Ph.D. degree more than 5 years ago) award is for \$1,000.00 and The junior scientist (who has received Ph.D. degree more than 5 years ago) is awarded \$750.00.

Interested person should contact D. Wilton.

15. The meeting was adjourned at 17:50 hours.

### **Guest Attendance List**

Giuseppe D'Elia (Univ. of Illinois at Chicago), Umberto Crovella (Univ. of Illinois at Chicago), Susan Hagness (Univ. of Wisconsin).

### **Members and Associate Members in Attendance**

C. E. Baum, H. L. Bertoni, G. S. Brown, C. M. Butler, W. A. Davis, A. W. Glisson, Jr., D. R. Jackson, R. H. Lang, S. R. Laxpati, R. V. McGahan, R. V. Nevels, A. F. Peterson, L. W. Pearson, M. Picket-May, R. J. Pogorzelski, Y. Rahmat-Samii, T. B. A. Senior, W. Ross Stone, P. L. E. Uslenghi, D. R. Wilton, R. W. Ziolkowski.

Respectfully submitted by  
Sharad R. Laxpati  
Secretary  
Revised May 30, 2001