



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

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*Please reply to:*

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**MINUTES      Commission B Business meeting**  
National Radio Science Meeting  
Boulder, CO  
January 9, 2002

1. Chair P. L. E. Uslenghi called the meeting to order at 18:00 hrs. He welcomed all members and guests. Attendance list is provided at the end of the minutes.
2. The minutes of the July 9, 2001 meeting of Commission B held at Boston, MA were approved.

**Committee Reports**

3. 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. Prof. A Yakovlev (University of Mississippi) and Prof. P. Wahid (University of Central Florida). After some discussion, both nominations were approved by a voice vote.
4. 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 2002 Boulder meeting was presented. There were a total of 38 sessions at the symposium; of these 7 were URSI B sessions and 1 joint session with URSI A/B/D. The details of Special Sessions involving URSI B, with organizers in parenthesis, are as follows:

- *Electromagnetic Interactions with Complex Platforms* (George Uslenghi and Chalmers Butler)
- *Electromagnetic Complex Media and Metamaterials* (N. Engheta)
- *URSI B, A and D: Active Integrated Antennas for Commercial Applications* (George Uslenghi)
- *Fast Methods in Electromagnetics* (Eric Michielssen and John Volakis)

Two additional sessions planned for this meeting did not materialize.

- Following 13 special sessions, involving Commission B, have been approved for the San Antonio meeting:
  - *RWG Bases* (L. W. Pearson) AP-S/URSI-B
  - *Cell-Phone Radiation and Interference Issues and Solutions* (David Nghiem) AP-S/URSI-B and K
  - *Challenges in Computational Electromagnetics* (Raj Mittra and Tom Cwik) AP-S/URSI-B
  - *EM Modeling and Inversion for Geophysical Applications* (Tarek Habashy and Jaideva Goswami) AP-S/URSI-B
  - *Fractal Antenna Engineering* (Douglas H. Werner) AP-S/URSI-B
  - *Suppression and Control of Surface Waves in Printed Circuit Structures* (G. Eleftheriades and D. R. Jackson) AP-S/URSI-B
  - *Conformal Antennas* (Roberto G. Rojas and Vakur B. Erturk) AP-S/URSI-B
  - *Electromagnetic Compatibility Analysis* (John Volakis and Chalmers Butler) AP-S/URSI-B
  - *Wavelets in Electromagnetics* (Manos Tentzeris) AP-S/URSI-B
  - *Integration of Antennas in RF/ Wireless Packages* (Manos Tentzeris) AP-S/URSI-B
  - *Advanced Methods for Large Scale Computational Electromagnetics* (Weng Chew and J. M. Jin) AP-S/URSI-B
  - *Complex media and Metamaterials* (Nader Engheta) URS I-B
  - *Novel Challenges with PBGs, Artificial Magnetic Conductors, Hard and Soft Surfaces, and other Complex Surfaces* (P.-S. Kildal and Nader Engheta) URS I-B
- We need suggestions for special sessions for AP-S/URSI 2003 in Columbus, OH.

### Report from the Chair

5. A report on the upcoming meetings was given. For report on the present Boulder meeting, see TAC report above. 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.

APS/URSI	San Antonio	June 16-21, 2002
URSI General Assembly	Maastricht, NL	August 17 – 24, 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
APS/URSI/AMEREM	Albuquerque	2006
Tentative meetings scheduled		
APS/URSI	Ottawa, Canada	2007 (needs satisfactory budget)
APS/URSI	San Diego	2008 (needs approval by ADCOM)

6. P. Uslenghi discussed the Maastricht General Assembly at length. Deadlines for submission of one to four page summary and the deadline and format for the final paper were noted. Commission B has been allotted 34 slots of the total 120 delegates at General Assembly who will receive a stipend of about \$800.00. The large number is because of our members' high participation at the business meetings and a large number of papers presented. This number is exclusive of officers. Uslenghi will send out an e-mail about this.
7. P. Uslenghi informed the members that USNC will submit a US proposal for 2005 or 2008 General Assembly and has selected Denver as the site.
8. Ross Stone is looking for Associate Editors for Radio Science Bulletin.
9. A flier (published in Radio Science and AP Magazine) announcing the URSI Commission B International Electromagnetics Prize was distributed.
10. A new Vice-chair for International Commission B will be elected at the General Assembly; It was felt that US would not present a candidate.

### **Action Items**

11. Ad Hoc Committee presented pros and cons of the National Radio Science (January, Boulder) meeting. After some discussion a show of hands indicated the members' sentiment to keep the meeting in Boulder.
12. Sponsorship/participation of URSI (Commission B) in Topical Meetings such as on Wireless Science, Technology and Application in Hawaii (2003) was discussed. There was lengthy discussion. A show of hands indicated a favorable response (with one opposed)
13. Volunteers are needed for General Assembly in Denver proposal preparation. Let Uslenghi know as soon as possible.
14. Nominees for USNC-URSI members-at-large are needed. Members unanimously recommended D. Wilton and M. Picket-May to USNC.

15. USNC has noted that there is a lack of young blood entering URSI. The chair made two suggestions. (a) Create a category called ‘Student Member’ (requirements: Attend one URSI meeting; membership for 3 years and may be renewed if still a student and comes to another meeting during that period). Members were in favor of this suggestion. (b) Contingent on availability of funds – recommend some form of financial support to encourage student attendance. Members were generally in favor of supporting the 10 participants of the student paper contest.
16. Submission format for URSI meetings was discussed. The issue of 1 page vs. 1-4 page abstract was discussed. The latter requirement at the General Assembly was noted. After considerable discussion, the vote indicated 15 in favor of 1 page, 4 in favor of a fixed length and none in favor of flexible abstract submission. A primary concern of the members was that a flexible length will evolve into a four page summary for all submissions.
17. Uslenghi discussed the need to elect a Vice-Chair for the Commission B for the triennium ’03-’05. Pogorzelski will take over as the Chair of Commission B after the General Assembly, and officially beginning January 2003. A selection committee for nomination for Vice-Chair consisting of the present chair (Uslenghi), past chair (Wilton) and incoming chair (Pogorzelski) has nominated two candidates based on their commitment, perceived ability to conduct Commission B business and the need to bring in young blood. The two nominees are: Prof. David Jackson and Prof. John Volakis. Election will be held via e-mail at the end of February.
18. Old Business: None
19. New Business: None
20. The meeting was adjourned at 19:20 hours.

### **Guest Attendance List**

Filippo Capolino (Univ. of Houston), Umberto Crovella (Univ. of Illinois at Chicago), Danilo Erricolo (Univ. of Illinois at Chicago), Michael Harrison (Air Force Research Lab), Mike Lockard (Clemson Univ.) Geoff Waldschmidt (Northwestern Univ.)

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

G. S. Brown, C. M. Butler, K. Casey, W. A. Davis, N. Engheta, A. W. Glisson, Jr., W. A. Imbrialle, D. R. Jackson, R. H. Lang, S. R. Laxpati, R. V. McGahan, E. Michielssen, R. V. Nevels, A. A. Oliner, R. J. Pogorzelski, Y. Rahmat-Samii, R. G. Rojas, T. B. A. Senior, W. Ross Stone, F. M. Tesche, J. Scott Tyo, P. L. E. Uslenghi, J. L. Volakis, D. R. Wilton.

Respectfully submitted by  
Sharad R. Laxpati  
Secretary