



International Union of Radio Science U.S. Commission B

R. J. Pogorzelski, Chair
D. R. Jackson, Vice-Chair
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MINUTES Commission B Business meeting

National Radio Science Meeting
Columbus, OH
June 23, 2003

1. Chair R. J. Pogorzelski called the meeting to order at 17:30 hrs. He welcomed all members and guests. Attendance list is provided at the end of the minutes.
2. Chair Pogorzelski thanked George Uslenghi (outgoing chair) and Sharad Laxpati (outgoing secretary) for their services to the USNC/URSI Commission B.
3. The minutes of the June 17, 2002 meeting of Commission B held at San Antonio, TX were approved.
4. Chair Pogorzelski reported that the USNC would like to eliminate AP only registration and URSI only registration. Instead they would like to have one joint registration with two rates; one for nonmembers of either organization and the other for IEEE members/URSI radio scientists. A new formula to split the revenue based on the number of papers presented at URSI and AP-S etc. will be agreed upon.

Committee Reports

5. S. Hagness, Chair of the Membership Committee and L. Kempel presented the committee report. The committee members are J. W. Mink, L. Kempel, and D. Wilton.

- Prof. J. T. Bernhard (University of Illinois), Prof. L. Carin (Duke University) and Dr. L. Gurel were nominated for Full Membership. Prof. Joel T. Johnson (Ohio State University) and Dr. Jiming Song (Iowa State University) were nominated for promotion from Associate

membership to full membership. Dr. Hossein Mosallaei (The University of Michigan) was nominated for Associate membership. All nominations were approved by a voice vote.

- Subsequently after some discussion Dr. H. Mosallaei was elected a full member by voice vote since he was qualified for full membership.

6. D. Jackson, outgoing chair of the Technical Activities Committee presented a 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 2003 APS/URSI meeting in Columbus, OH was presented. There were 47 sessions at the symposium; of these 18 were URSI B sessions, 3 joint session with other URSI commissions, 23 were joint with AP-S and 3 were joint with AP-S and other URSI Commissions. The details of Special Sessions involving URSI B, with organizers in parenthesis, are as follows:

- *Special Session in Honor of Prof. Chalmers M. Butler* (R. Nevels) AP-S/URSI-B
- *Metamaterials* (N. Engheta and R. Ziolkowski) AP-S/URSI-B
- *Novel Challenges with Electromagnetic Bandgap Surfaces* (N. Engheta and Per-Simon Kildal) AP-S/URSI-B
- *Large Finite Arrays* (J.L. Volakis, R.J. Mittra and R. Gilbert) AP-S/URSI-B
- *Dielectric Measurement and Sensors* (S. Trabelsi) AP-S/URSI-B
- *Active Integrated Antennas* (R.J. Rojas and V. Erturk) AP-S and URSI-A/B/D
- *Transient Radiation and Reception* (S. Tyo) AP-S and URSI-B/E
- *Higher-Order Basis Functions for Efficient Solution of Large Problems via Matrix Size Reduction in MoM* (R. Mittra and G. Vecchi) AP-S/URSI-B
- *Special Session in Memory of Prof. Y.T. Lo* (W.C. Chew and J. Jin) AP-S/URSI-B
- *Sources and Discontinuities in PBG and Other Periodic Structures* (F. Capolino and D.R. Jackson) AP-S/URSI-B
- *Geometric Methods for Discrete Electromagnetics* (F.L. Teixeira and P.R. Kotiuga) AP-S/URSI-B
- *Advancements in Finite Element Methods* (R. Dyczij-Edlinger) AP-S/URSI-B
- *Electromagnetic Interference with Complex Platforms I & II* (P.L.E. Uslenghi) URSI-B/E
- *Nanotechnology* (P.L.E. Uslenghi and R.W. Ziolkowski) URSI-B/D
- *Wireless Technology* (S.M. El-Ghazaly) URSI-A/B/D
- *Review of the State of Rough Surface Scattering Analysis and Experimentation* (G. Brown and A. Voronovich) URSI-B/F
- *Imaging through Random Media* (A. Ishimaru and Y. Kuga) URSI-B/F
- *Asymptotic and Hybrid Methods* (P.H. Pathak) URSI-B
- *Frontiers in FDTD: Theory and Application* (G. Lazzi and S. Hagness) URSI-B

7. J.L. Volakis, the present chair of the Technical Activities Committee presented a report. The Committee members for the 2003-2006 term are: Prof. George Elefteriades, Prof. Nader Engheta, Dr. Danilo Erricolo, Prof. Joel T. Johnson, Prof. Eric Michielssen, Prof. Dimitrios Perouris, Prof. John L. Volakis (Chair), and Prof. Yahya Rahmat-Samii.

8. Prof. Volakis stated that there is an urgent need for submitting proposals for special sessions for the 2004 Boulder meeting and the 2004 meeting in Monterey, CA. He also stated that the Columbus AP-S/URSI meeting had an attendance of 1432 with approximately 400 students, thanks to the discounted registration fee for students. He also thanked the steering committee of the Columbus meeting for an excellent job in organizing it.
9. Prof. Manara gave a report on the venue of the next URSI EM Theory Symposium at Pisa, Italy.

Report from the Chair

10. A report on the upcoming meetings was given. A complete list of future meetings may be found in the AP-S and URSI websites. (<http://www.ieeeaps.org/> and <http://www.ursi.org/calendar.html>)

National Radio Science	Boulder	January 2004
URSI EM Theory Symposium Pisa, Italy		Spring 2004
APS/URSI	Monterey	June 20-26, 2004
APS/URSI	Washington, DC	2005
APS/URSI/AMEREM	Albuquerque	2006
URSI (US & Canada)	Ottawa, Canada	2007
APS/URSI	San Diego	2008

11. Chair Pogorzelski discussed the use of laptops for paper presentations in the Boulder meeting. It was the sense of the membership that speakers will bring their own laptops and use the switches provided by the USNC to work with the projector.
12. After some discussion an overwhelming majority of members indicated their approval of the concept for the prepayment of a non-refundable registration fee for the Boulder meeting to avoid no shows.
13. P. Uslenghi stated that if a student registered at a U.S. university is the first author of an accepted paper, (s)he will have a free accommodation, a waiver of meeting registration fee, and \$400 for travel/food.
14. C. Butler was congratulated for having been elected vice President of URSI at the General Assembly.
15. R. Pogorzelski welcomed the newly elected members of the USNC Commission B.
16. Old Business: None
17. New Business: None
18. The meeting was adjourned at 18:30 hours.

Guest Attendance List

Prof. Makoto Ando, Prof. Yahia Antar, Cristian Berardi, Nathan Champagne, Prof. Roberto D. Graglia, Larkin Hastriter, Dr. Ozlem Kilic, Ronald Kollman, Prof. Stefano Maci, Prof. Giuliano Manara, Davide Negri, Prof. Lot Shafai, Prof. Roberto Tiberio, Prof. Alberto Toccafondi, Dr. Erdem Topsakal

Members and Associate Members in Attendance

Dr. John S. Asvestas, Dr. Carl E. Baum, Prof. Henry L. Bertoni, Dr. Wolfgang-Martin Boerner, Prof. Gary Brown, Dr. Gerald Burke, Prof. Chalmers M. Butler, Dr. Andreas C. Cangellaris, Dr. Kendall Casey, Prof. Weng Cho Chew, Prof. R. E. Collin, Dr. William A. Davis, Dr. J. A. DeSanto, Dr. Atef Z. Elsherbeni, Dr. Nader Engheta, Dr. Danilo Erricolo, Prof. Leopold B. Felsen, Dr. Allen W. Glisson, Prof. Susan C. Hagness, Dr. R. C. Hansen, Dr. George W. Hanson, Dr. Randy Haupt, Dr. Ahmad Hoorfar, Prof. Akira Ishimaru, Prof. Tatsuo Itoh, Prof. David R. Jackson, Prof. Ramakrishna Janaswamy, Prof. Vikram Jandhyala, Dr. Joel T. Johnson, Dr. William A. Johnson, Dr. Joseph D. Kotulski, Prof. Leo C. Kempel, Dr. Ahmed Kishk, Prof. Roger H. Lang, Prof. Sharad R. Laxpati, Dr. Robert Lee, Dr. Qing-Huo Liu, Dr. Robert J. Mailloux, Dr. Ronald J. Marhefka, Prof. Raj Mittra, Prof. Robert D. Nevels, Dr. Edward H. Newman, Prof. Dennis P. Nyquist, Prof. Arthur A. Oliner, Dr. Hsueh-Yuan Pao, Dr. Prabhakar Pathak, Dr. Andrew F. Peterson, Dr. Andrew J. Poggio, Dr. Ronald J. Pogorzelski, Prof. Yahya Rahmat-Samii, Dr. Sembiam R. Rengarajan, Dr. Roberto G. Rojas, Dr. Edward J. Rothwell, Dr. Balasubramaniam Shanker, Dr. Jiming Song, Dr. W. Ross Stone, Prof. Gary A. Thiele, Prof. J. Scott Tyo, Prof. Piergiorgio L. E. Uslenghi, Prof. John L. Volakis, Dr. Daniel Weile, Dr. Douglas H. Werner, Prof. Donald R. Wilton, Dr. Arthur Yaghjian, Dr. David Hung-Yu Yang, Dr. Alexander Yakovlev, Dr. Amir I. Zaghloul, Prof. Richard W. Ziolkowski

Respectfully submitted by
Sembiam R. Rengarajan
Secretary