



International Union of Radio Science U.S. Commission B

S. Rengarajan, Chair
J. Volakis, Vice-Chair
J. Simpson, Secretary

Please reply to:

MINUTES Commission B Business meeting

2013 URSI Meeting Orlando, FL, USA July 10, 2013

1. Meeting called to order at 5:00 pm.
2. Chair Sembiam Rengarajan welcomed the members and guests.
3. The minutes of the business meeting held in Boulder, CO in Jan. 2013 was approved.
4. Website Information
USNC-B: <http://www.ece.uic.edu/~URSICommb/>
Minutes from the Business Meetings (back to 1997) are there.
Other links:
USNC: <http://www.usnc-ursi.org/>
International URSI-B: <http://www.ursi.org/B/index.htm>
International URSI: <http://www.ursi.org/>

5. Announcements:

Officers of various URSI offices for the triennium 2012-2014 were reviewed.
USNC Commission B:

Sembiam Rengarajan (chair)

John Volakis (vice-chair)

Jamesina Simpson (secretary)

Sharad Laxpati (webmaster)

Edward Rothwell (membership)

Christos Christodoulou (technical)

Christos Christodoulou (Technical activities) /URSI

USNC/CRSI: Chair:

Chair: Steven C. Reising
Past-Chair: Yahya Rahm

Fast-Chain: Tallya Kallmat-Salim

Secretary and Chair-Elect: David Jackson
Accounts Manager: Gary Brown
URSI International Commission B
Chair: Giuliano Manara (Italy)
Vice-Chair: Ari Sihvola (Finland)
URSI International:
President: Phil Wilkinson (Australia)
Past-President: François Lefeuvre (France)
Vice Presidents:
Subra Ananthakrishnan (India)
Makato Ando (Japan)
Paul Cannon (UK)
George Uslenghi (USA)
Secretary-General: Paul Lagasse (Belgium)
Asst. Secretary-General (Publications): Ross Stone (USA)

6. Future meetings
 - USNC-URSI National Radio Science Meeting, Boulder, CO, Jan. 8-11, 2014 (abstract submission deadline Sep. 23, 2013).
 - IEEE AP-S/URSI, Memphis, TN, July 6-12, 2014 (paper submission deadline Jan. 15, 2014)
 - XXXI URSI General Assembly and Scientific Symposium, Beijing, China, August 16-23, 2014.
 - Additional future meetings may be found on the AP-S and URSI websites. (<http://www.ieeeaps.org/> and <http://www.ursi.org/>)
7. Nomination for International URSI Commission B Vice-Chair: Deadline to nominate candidates is March 1, 2014. If we have multiple nominations, we will elect one.
8. Deadline for submitting a proposal to host the 2019 URSI EM Theory Symposium is Jan. 2014. A template and sample proposal are available from the International URSI B website. The US has not hosted this symposium in a long time (30 years)? Please consider hosting it.
9. More reviewers are needed to review URSI B abstracts for the IEEE AP-S International Symposium & USNC/URSI Meeting. So far the Commission B officers have completed all of the reviews, but now there are too many for us to handle. Two independent reviews are needed for each abstract. We would like 12 total reviewers (we need 5 or 6 more). The work load is ~50 abstracts per reviewer during the last week of Jan. and first week of Feb. Please contact Dr. Sembiam Rengarajan to volunteer. Dr. Ross Stone indicated that the ratio of URSI abstracts to AP-S conference papers was somewhat higher this year compared to previous years (possibly because the URSI abstracts will now appear in Xplore).
10. Report of Technical Activities Committee
Members

Christos Christodoulou (Chair) – University of New Mexico
Shanker Balasubramanian - Michigan State
Hossein Mosallaei - Northeastern Univ.
Erdem Topsakal - Mississippi State Univ.
Manos Tentzeris - Georgia Tech

Sembiam Rengarajan presented the Technical Activities Committee report. There were 4 Commission B-related special sessions in Boulder this year (same as last year), and 13 total Commission B-related sessions (same as last year). No one has kept track of which commission to which any URSI-related special sessions belong that were held at the annual IEEE AP-S International Symposium & USNC/URSI Meeting. This will be done in future years. On a case-by-case basis, URSI authors have permitted their talks to be recorded at the IEEE AP-S International Symposium & USNC/URSI Meeting.

11. Report of the Membership Committee.

Members

Ed Rothwell (Chair) – Michigan State University
George Hanson – University of Wisconsin -- Milwaukee
Kathleen Melde – University of Arizona
Don Wilton – University of Houston

Please nominate your colleagues and students. To become an associate member, 2-3 journal publications are required and at least one URSI presentation (in B). Note that according to the USNC-URSI, only U.S. citizens and permanent residents may be members of the USNC-URSI (citizens from other countries are encouraged to join their respective URSI chapters).

We reviewed full member nominations for Reyhan Baktur (Utah State University) and Branislav M. Notaros (Colorado State University). Both were approved.

12. Old Business: None.

13. New Business: None.

14. Adjourned at 5:26 pm.

Guests in Attendance

Magda El-Shenawee (University of Arkansas)

Members in Attendance

Prof. Sembiam Rengarajan, Prof. Edward Rothwell, Prof. Jamesina Simpson, Dr. Andrea Alu, Dr. Ioannis M. Besieris, Dr. Gary S. Brown, Dr. Robert J. Burkholder, Prof. Filippo Capolino, Prof. Weng Cho Chew, Dr. William A. Davis, Dr. Nader Engheta, Dr. Danilo Erricolo, Prof. Susan C. Hagness, Dr. Peder Hansen, Dr. George W. Hanson, Dr. Ishimaru Akira, Prof. Ramakrishna Janaswamy, Prof. Michael A. Jensen, Prof. Leo C. Kempel, Prof. Edward F. Kuester, Dr. Stuart A. Long, Dr. Robert J. Mailloux, Dr. Ronald J.

Marhefka, Prof. Robert D. Nevels, Prof. Yahya Rahmat-Samii, Prof. Kubilay Sertel, Prof. L. Shafai, Prof. J. Scott Tyo, Dr. Karl Warnick, Dr. Steven Weiss, Prof. Donald Wilton, Dr. Alexander B. Yakovlev, Dr. Amir I. Zaghloul, Prof. Richard W. Ziolkowski

Respectfully submitted by
Jamesina Simpson
Secretary



The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.



USNC-URSI Commission B Business Meeting

**Wednesday, July 10, 2013
5:00 – 6:00 p.m.**

**2013 IEEE AP-S International Symposium/USNC-URSI
National Radio Science Meeting, Orlando, FL, July 7-13, 2013**



AGENDA

USNC Commission-B
Business Meeting

- Welcome to members and guests
- Introduction of guests
- Approval of the minutes from Boulder, Jan 2013

CHAIR REPORT

COMMITTEE REPORTS

- Technical Activities Report (Christos Christodoulou)
- Membership Committee (Edward Rothwell)

- Old business
- New business
- Adjourn



Chair Report

USNC Commission-B
Business Meeting

USNC-URSI Commission B Officers 2012-2014

Chair: Sembiam Rengarajan

Vice-Chair: John Volakis

Secretary: Jamesina Simpson

Chair, TAC: Christos Christodoulou

Chair, Membership Committee: Edward Rothwell

USNC-B Webmaster: Sharad Laxpati



Chair Report

USNC Commission-B
Business Meeting

USNC-URSI Officers 2012-2014

Chair: Steven C. Reising

Past-Chair: Yahya Rahmat-Samii

Secretary and Chair-Elect: David Jackson

Accounts Manager: Gary Brown



Chair Report

USNC Commission-B
Business Meeting

International URSI-B Officers 2012-2014

Chair: Giuliano Manara (Italy)

Vice-Chair: Ari Sihvola (Finland)



Chair Report

USNC Commission-B
Business Meeting

International URSI Officers 2012-2014

President: Phil Wilkinson (Australia)

Past-President: François Lefeuvre (France)

Vice Presidents:

Subra Ananthakrishnan (India)

Makato Ando (Japan)

Paul Cannon (UK)

George Uslenghi (USA)

Secretary-General: Paul Lagasse (Belgium)

Asst. Secretary-General (Publications): Ross Stone (USA)



Chair Report

USNC Commission-B
Business Meeting

Website Information

USNC-B: <http://www.ece.uic.edu/~URSICommB/>

Minutes from the Business Meetings (back to 1997) are there.

Other links:

USNC: <http://www.usnc-ursi.org/>

International URSI-B: <http://www.ursi.org/B/index.htm>

International URSI: <http://www.ursi.org/>



Chair Report

USNC Commission-B
Business Meeting

Upcoming URSI Meetings

USNC-URSI National Radio Science Meeting, Boulder, CO, Jan. 8-11, 2014 (Abstract submission deadline Sep. 23, 2013).

IEEE AP-S/URSI, Memphis, TN, July 6- 12, 2014 (paper submission deadline Jan. 15, 2014).

XXXI URSI General Assembly and Scientific Symposium, Beijing, China , Aug. 16-23, 2014.

Additional future meetings may be found on the AP-S and URSI websites. (<http://www.ieeeaps.org/> and <http://www.ursi.org/>)



Chair Report

USNC Commission-B
Business Meeting

Nomination for International URSI Commission B Vice-Chair

- Deadline for nomination of candidates for the vice-chair of the international URSI Commission B is March 1, 2014.
- If we have multiple nominations from USNC-URSI B, we will elect one.



Chair Report

USNC Commission-B
Business Meeting

Hosting the 2019 URSI EM Theory Symposium in the U.S.

- Deadline for submitting the proposal is Jan. 2014.
- A template and a sample proposal are available from the International URSI B for preparing the proposal.



Chair Report

USNC Commission-B
Business Meeting

Review of USNC-URSI/APS summer meeting abstracts

- Commission B officers have been reviewing the abstracts during the last two years.
- IEEE Xplore requires two independent reviews for each abstract. We need 5 or 6 additional reviewers.
- The average workload is about 50 abstracts/reviewer during the last week of January and first week of February.



Committee Report

USNC Commission-B
Business Meeting

Technical Activities Report: Christos Christodoulou



Committee Report

USNC Commission-B
Business Meeting

Membership Committee: Edward Rothwell



Chair Report

USNC Commission-B
Business Meeting

- ❖ Old Business?
- ❖ New Business?
- ❖ Adjourn



URSI Commission-B Special Sessions & Stats

**July 2013
Orlando, Florida**

**Christos Christodoulou
University of New Mexico**

All 2013 URSI-B Boulder Sessions

Session Title	Number of papers	URSI Commission	Chairs or Organizers
Complex Media	10	B	Kubilay Sertel Filippo Capolino
Antenna Arrays	5	B	Yahya Rahmat-Samii Karl Warnick
Antenna Theory, Design and Measurement	10	B	John Volakis Sembiam Rengarajan
Numerical Methods	10	B	Branislav Notaros Donald Wilton
Inverse Scattering	5	B	Kamal Sarabandi Danilo Erricolo
Wideband Antennas	5	B	Dejan Filipovic Gregory Huff
Electromagnetic Theory	10	B	David Jackson Piergiorgio Uslenghi

2013 URSI-B Joint Sessions at Boulder

Session Title	Number of papers	URSI Commission	Organizers
Sensors for Independent Living	5	B/K	Erdem Topsakal John Volakis
Cognitive Radio and Radar	6	B/C	Amir Zaghloul Christos Christodoulou
Biophotonics	10	B/K	Ilker Capoglu Jamesina Simpson
Developments in Array Technology for Radio Astronomy	11	B/J	Karl Warnick John Volakis

2013 URSI Boulder Summary

	Number of Sessions	Number of Papers
URSI Commission-B Total	7 (B) 1 (C/B joint) 1 (J/B joint) <u>2 (K/B joint)</u>	55 6 11 <u>15</u>
	13 (Total)	87
URSI Total (All Commissions)	47	368

2013 URSI B Papers (Boulder, Colorado), attendance:

Total Papers (including joint) in all Sessions: 368 (87 URSI B, including Joint)

URSI B only papers : 55

Papers in joint sessions: 32

USNC-URSI National Radio Science Meeting

Special Sessions since 2010

	2010	2011	2012	2013
	3	9	4	4

2012 IEEE Int. Symposium & USNC/URSI Meeting (13 total)

Session Title		Organizers
<i>Theoretical, Algorithmic, and Technological Advances in EM inverse scattering</i>		Andrea Massa, Aria Abubakar and Magda El-Shenawee
Advances in Commercial EM Simulation Tools		C.J. Reddy, Jay Kralovec and Aldo Petosa
Cognitive Radio: Improvements through the integration of electromagnetic and communication theory		Daniela Tuninetti, Natasha Devroye and Agostino Monchioro
Electrodynamics and applications of carbon nanotube and graphene systems		George Hanson and Christophe Caloz
Terahertz technology		Hao Xin and Goutaum Chattopadhyay
AMTA Special Session –Advances in antenna and RCS measurement technology		Ivan J. Lahaie and Chris Coleman
Future trends in Radar		Lorenzo Lo Monte and Gary Scalzi
Challenging canonical scattering problems and new EM Problems involving Special Materials		Guido Lombardi and Andrea Alu
Flexible 2D and 3D printed Antennas		Reyhan Bakur and Cynthia Furse
Antenna Feed systems for space and terrestrial applications		Sudhakar Rao, Nuria Llombart Juan and Isamu Chiba
The legacy of Harold Wheeler		Ted Simpson and Walter Kahn
Prof. Robert Kouyoumjian Memorial session: Asymptotic HF and Hybrid Methods		Prabhakar Pathak and Giuliano Manara
Evaluation Techniques for compact Multi Element Antennas For MIMO		Rodney Vaughan and Jane Yun

2013 IEEE Int. Symposium & USNC/URSI Meeting (13 total)

Session Title			Organizers
Advances in Antenna Impedance Matching			Richard Ziolkowski
Advances in Commercial EM Simulation Tools			C.J. Reddy
Advances in RFID Sensing: An Emerging Wireless Identification and Sensing Technology	APS only		Leena Ukkone
Traveling Wave Antennas - in honor of Prof. Carlton H. Walter			Johnson Wang
AMTA Special Session - Advances in RF Measurement Technology			Ivan LaHai Com A
Terahertz Antennas and Other Technologies	APS only		Hao Xin
Metasurfaces for Guidance and Radiation			Anthony Grbic
Numerical Weather Prediction Supporting Electromagnetic Wave Propagation Modeling			Robert Marshal Com F
Passive Intermodulation (PIM) and High Power Effects in Antennas and Wireless Interfaces			Alexander G. Schuchinsk
Printed MIMO Antenna Implementations and Challenges			Mohammad S. Sharawi
Antenna Challenges Solved by Complex Modeling I			Matthias Geissler, IMST