



International Union of Radio Science U.S. Commission B

J. Volakis, Chair	<i>Please reply to:</i>	
J. Simpson, Vice-Chair	Reyhan Baktur	phone: (435) 797-2955
R. Baktur, Secretary	Dept. of ECE, Utah State Univ.	fax: (435) 797-3054
	EL 150, 4120 Old Main Hill	e-mail: reyhan.baktur@usu.edu
	Logan UT 84322	

MINUTES Commission B Business Meeting

2017 USNC-URSI
San Diego, CA, USA
July 10, 2017

1. Chair John Volakis called the meeting to order at 5:09 pm.
2. Welcome to members and guests.
3. Introduction of guests.
4. Introduced USNC Commission B, USNC, and URSI officers.
5. Jamesina Simpson becomes USNC-URSI Commission B Chair starting January 1, 2018.
6. Nominations are requested for USNC-URSI Vice-Chair. Please send nominations to John Volakis by Aug. 14, 2017.
7. Paper submission is now open for the 2018 National Radio Science Meeting in Boulder, CO (Jan. 4-7, 2018).
8. Ross Stone presented an overview of the URSI membership requirements.
9. Ross Stone encouraged everyone to attend the 2017 URSI GASS in Montreal, Quebec, Canada (Aug. 19-16, 2017).
10. Ross stone presented an overview of the URSI triennial flagship meetings (GASS, AT-RASC, AP-RASC).
11. Upcoming meetings – A list of the upcoming meetings taking place in the next two years was presented.
12. Technical Activities Report
 - Branislav Notaros, Chair of the USNC-URSI Commission B Technical Activities Committee, presented the Technical Activities Report (attached at the end of these meeting minutes).
 - The special sessions and statistics for USNC-URSI Commission B participation in the 2017 Radio Science Meeting in San Diego were presented:

- Total papers: 1946 submitted, 1792 accepted
- USNC-URSI papers: 438 submitted, 412 accepted, 0 rejected
- USNC-URSI Commission B papers: 233 submitted, 224 accepted, 0 rejected
- 18 AP/URSI joint special sessions
- The statistics for the submissions and special sessions at the 2017 National Radio Science Meeting in Boulder, CO were summarized.
- 10 special sessions are confirmed for the 2018 National Radio Science Meeting.

13. Committee Report-- Membership Committee

- Kathie Melde (filled in for Ed Rothwell) Presented Membership Report
- Nominations were as follows:
 - Maria Pour – U. Alabama Huntsville – full member
 - Payam Nayeri – Colorado School of Mines – full member
 - Stavros Georgakopoulos – Florida International University – full member
 - Marco Poort – University of Illinois Chicago – early career member
 - Elias Alwan – Florida International University – early career member
 - Asimina Kiourti – Ohio State – early career member
- Members in attendance voted to accept all of those nominations.

14. Chair Report-- Old Business

- Karl Warnick asked if John Volakis was the “Old Business”. Polite laughter.
- Branislav Notaros informed Karl that this was an inappropriate wise crack ☺.

15. Chair Report-- New Business

None.

16. Adjourned at 5:50 pm.

Minutes taken by Karl Warnick for Reyhan Baktur.
Respectfully submitted by Reyhan Baktur, Secretary

Guests in attendance

Ahmed Hassan, Fabria Labeau, Yahia Antar, Rodney Vaughn, Deanna Sessions, Ruisi He

Members in attendance

Nathan Champagne, Goutam Chattopadhyay, Atef Elsherbeni, Levent Gurel, Susan Hagness, Gregory Huff, David Jackson, Joseph Kotulski, Stuart Long, Eric Michielssen, Eric Mokole, Niru Nahar, Branislav Notaros, Yahya Rahmat-Samii, Sembiam Rengarajan, Kamalesh Sainath, Kamal Sarabandi, Kubilay Sertel, Balasubramaniam Shanker, Jamesina Simpson, George Uslenghi, Dan Weile, Doug Werner, Alexander Yakovlev, Rick Ziolkowski, Andrea Alu, Ioannis Besieris, Gerald Burke, Robert Burkholder, Danilo Erricolo, Peder Hansen, Ahmed Kishk, Ron Marhefka, Bob Nevels, Sima Noghianian, Ron Pogorzelski, Satish Sharma, Georgios Trichopoulos, Steven Weiss, Alexander Yakovlev, Ali Yilmaz, Karl Warnick, Kathie Melde, John Volakis, Gary Brown



USNC-URSI Commission-B Business Meeting

Monday, July 10, 2017

5:00 – 6:00 p.m.

Location: Regatta





AGENDA

USNC Commission-B Business Meeting

- Welcome to members and guests
- USNC and International URSI officers
- Approval of Boulder 2017 Meeting Minutes
- Vice Chair Nominations (Term starting Jan 2018)
- Upcoming meetings

COMMITTEE REPORTS

- Technical Activities Report (Branislav Notaros)
- Membership Comt. (Kathie Melde for Ed Rothwell)
- Old business
- New business
- Adjourn



Commission B Officers

USNC Commission-B
Business Meeting

USNC-B Officers 2015-2017

Chair: **John L. Volakis**

Vice-Chair: **Jamesina Simpson**

Secretary: **Reyhan Baktur**

Chair, TAC: **Branislav Notaros**

Chair, Membership Committee: **Edward Rothwell**

Webmaster:

Chelsea Bock, CBock@nas.edu at National Academies

Web Site

http://sites.nationalacademies.org/PGA/biso/URSI/PGA_080674



USNC Officers

USNC Commission-B
Business Meeting

USNC Officers 2015-2017

Chair: **David Jackson**

Past-Chair: **Steven C. Reising**

Secretary and Chair-Elect: **Sembiam Rengarajan**

Accounts Manager: **Gary Brown**

National Acad. BISO Director: **Kathie Bailey**

National Acad. Senior Program Officer: **Ana M. Ferreras**

Consult Web Site Below for updates:

http://sites.nationalacademies.org/PGA/biso/URSI/PGA_067360

USNC-URSI Members (2015-2017)

MEMBERS at LARGE

Reyhan Baktur
Danilo Erricolo
Albin J. Gasiewski
W. Devereux (Dev) Palmer
Wayne Scales
Jamesina J. Simpson

A Member-at-Large is someone who does not represent one particular Commission, but rather represents the USNC-URSI as a whole.

These are voting positions.

Society Representatives

Randy Haupt (IEEE AP-S)
David Kunkee (IEEE GRS-S)
T. Joseph W. Lazio (American Astronomical Society)
Robert E. Marshall (American Meteorological Society)
Steven C. Reising (IEEE MTT-S)
Fabiano S. Rodrigues (American Geophysical Union)

These are voting positions

Other USNC-URSI Representatives

Student Travel Program & Paper Competition:

Erdem Topsakal

Virginia Commonwealth University



International URSI-B officers

USNC Commission-B
Business Meeting

International URSI-B Officers 2015-2017

Chair: Ari Sihvola (Finland)

Vice-Chair: Kazuya Kobayashi (Japan)



International URSI Officers

USNC Commission-B
Business Meeting

International URSI Officers 2015-2017

President: Paul Cannon (UK)

Past-President: Phil Wilkinson (Australia)

Vice Presidents:

Subra Ananthakrishnan (India)

Makato Ando (Japan)

Yahia Antar (Canada)

Umran Inan (USA)

Secretary-General: Paul Lagasse (Belgium)

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

Asst. Secretary-General (AT-RASC): George Uslenghi (USA)

Asst. Secretary-General (AP-RASC): Kazuya Kobayashi (Japan)

Nominations for new Vice Chair

Nominations and Self Nominations are Invited for the Vice Chair whose term will start on Jan 1, 2018.

Newly elected Vice Chair will become the Commission B Chair on Jan 1, 2021.

Kindly, please send nomination to John Volakis at volakis.1@osu.edu, or jvolakis@fiu.edu

Deadline for nominations is Aug. 14th.

URSI Membership

- **Full Member** must be citizens or permanent residents of the US.
- **Associate Member** must reside in the US, and Associate Members must reside in the US to remain Associate Members (no residency requirement).
- **Early Career Member (under age of 36)** must be either (a) enrolled as a student at a US university, or (b) employed at a US university or government organization, or at a company with facilities in the US, and must reside in the US. Must transition to Assoc. or Full member afterwards.

Nomination Process:

- Any member of the Commission can nominate qualified persons. Nominations must be done at http://sites.nationalacademies.org/pga/biso/ursi/pga_067375
- **All members of USNC-URSI Commissions will automatically be endorsed by USNC-URSI once they apply for URSI membership**

Upcoming Meetings

**XXXIInd International Union of Radio Science
General Assembly & Scientific Symposium**

**Palais des congrès, Montréal, Canada
August 19-26th, 2017**

www.ursi2017.org

**XXXII^e Union Radio-Scientifique Internationale
Assemblée générale et symposium scientifique**

**Palais des congrès, Montréal, Canada
19-26 août 2017**

**MARK YOUR
CALENDAR!**



URSI 2017 GASS
XXXIInd URSI GENERAL ASSEMBLY
& SCIENTIFIC SYMPOSIUM



2017 General Assembly and Scientific Symposium

August 19-26, 2017

Special Celebration Events Planned due to

- 375th anniversary of Montreal,
- 150th anniversary of Canada

http://www.ursi2017.org/side_program/scientific_program/aboutsciprogram_e.shtml



www.gass2017.org

URSI Triennial Flagship Meetings

GASS, AT-RASC, AP-RASC

- **GASS: 2014, 2017, 2020**
- **AT-RASC: 2015, 2018, 2021**
- **AP-RASC: 2016, 2019, 2022**

AP-RASC 2019



Date

9-15 March 2019

Location

New Delhi, INDIA

AT-RASC 2018



Date

28 May - 1 June 2018

Location

Gran Canaria, Spain

URSI GASS 2017



Date

19-26 August 2017

Location

Montreal, Canada

2018 USNC-URSI, Jan 4-7 Boulder Meeting (paper submission web site is now open)

**Abstract / Summary Submissions
and
Student Paper Competition Submissions
are due by
September 18, 2017
This is a FIRM DEADLINE!
Please visit www.nrsmboulder.org**

- **Student Travel Grant awards** to both graduate and undergraduate students
- **Ernest K. Smith Student Paper Competition.** The first place winner will receive \$1000, the second place winner will receive \$750, and the third place winner will receive \$500. The meeting website (<http://www.nrsmboulder.org/>) will be updated soon with more information.



Upcoming Meetings

USNC Commission-B
Business Meeting

See Site <http://www.ursi.org/en/events.asp>

- ❑ **2017 ICEAA-IEEE APWC**, Verona, Italy, Sept 11-15
- ❑ **2017 URSI General Assembly** , August 19-26, 2017
- ❑ **2017 Metamaterials**, Marseille, France, 28 Aug-2 Sept, 2017
- ❑ **2017 AMTA**, <http://www.amta2017.org/>, Atlanta, Georgia, October 15–20, 2017
- ❑ **2017 Int Symposium on Antennas and Propagation**, Phuket, Thailand, 30 Oct – 2Nov
- ❑ **2017 PIERS**, Singapore, Nov 19-22, 2017
- ❑ **2017 ACES Conference**, Suzhou, China, August 1-4
- ❑ **2018 IEEE Conf on Antenna Measurements & Appl. (CAMA)**, March 27-28
- ❑ **2018 EuCAP**, London, UK, 9-13 April 2018
- **2018 Int. Workshop on Antenna Technology (iWAT)**, Nanjing, China, March 5-7.
- **2018 USNC-URSI Boulder Meeting**, Jan 5-7
- ❑ **2018 2nd AT-RASC**, 28 May-1 Jun, ExpoMeloneras Convention Center, Gran Canaria
- ❑ **2018, IEEE APS/URSI Symposium**, July 14-21, Boston, MA,
- ❑ **2018 ACES Conference**, Denver, CO. March 24-29.
- ❑ **2018 ImBioC Conference**, Philadelphia, June 14-15
- ❑ **2019 URSI Commission B EMTS**, May 27-31, San Diego, CA. **Contact Sembiam Rengarajan.**



Committee Report

USNC Commission-B
Business Meeting

Technical Activities Report: Branislav Notaros



Committee Report

USNC Commission-B
Business Meeting

URSI B Membership Nominations:

Kathie Melde for Ed Rothwell



Chair Report

USNC Commission-B
Business Meeting

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



URSI Commission-B Special Sessions & Stats

**10 July 2017
San Diego**

**Branislav M. Notaros
Colorado State University**



2017 IEEE International Symposium on Antennas and Propagation/USNC-URSI National
Radio Science meeting, July 9–14, 2017, **San Diego**, California

Papers submitted, accepted, rejected, and withdrawn

(Breakdown: AP, URSI, URSI from US authors, URSI from non-US authors)

Submitted	Accepted	Rejected	Withdrawn
Total Submitted: 1946	Total Accepted: 1792	Total Rejected: 67	Total Withdrawn: 87
- AP Submitted: 1507	- AP Accepted: 1380	- AP Rejected: 67	- AP Withdrawn: 60
- URSI Submitted: 438	- URSI Accepted: 412	- URSI Rejected: 0	- URSI Withdrawn: 27
- URSI from US: 254	- URSI from US: 240	- URSI From US: 0	- URSI from US: 14
- URSI from non-US: 184	- URSI from non-US: 172	- URSI From non-US: 0	- URSI from non-US: 13

2016 IEEE International Symposium on Antennas and Propagation/USNC-URSI National
Radio Science meeting, June 26 - July 1, 2016, Fajardo, **Puerto Rico**

Papers submitted, accepted, rejected, and withdrawn

(Breakdown: AP, URSI, URSI from US authors, URSI from non-US authors)

Submitted	Accepted	Rejected	Withdrawn
Total Submitted: 1620	Total Accepted: 1458	Total Rejected: 77	Total Withdrawn: 76
- AP Submitted: 1218	- AP Accepted: 1100	- AP Rejected: 67	- AP Withdrawn: 45
- URSI Submitted: 402	- URSI Accepted: 358	- URSI Rejected: 10	- URSI Withdrawn: 31
- URSI from US: 233	- URSI from US: 217	- URSI From US: 1	- URSI from US: 8
- URSI from non-US: 169	- URSI from non-US: 141	- URSI From non-US: 9	- URSI from non-US: 23

2017 IEEE International Symposium on Antennas and Propagation/USNC-URSI National
Radio Science meeting, July 9–14, 2017, **San Diego**, California

Papers submitted, accepted, rejected, and withdrawn

(Breakdown: AP, URSI, URSI from US authors, URSI from non-US authors)

Submitted	Accepted	Rejected	Withdrawn
Total Submitted: 1946	Total Accepted: 1792	Total Rejected: 67	Total Withdrawn: 87
- AP Submitted: 1507	- AP Accepted: 1380	- AP Rejected: 67	- AP Withdrawn: 60
- URSI Submitted: 438	- URSI Accepted: 412	- URSI Rejected: 0	- URSI Withdrawn: 27
- URSI from US: 254	- URSI from US: 240	- URSI From US: 0	- URSI from US: 14
- URSI from non-US: 184	- URSI from non-US: 172	- URSI From non-US: 0	- URSI from non-US: 13

2015 IEEE AP-S Int. Symposium & North American URSI Mtg., **Vancouver**, BC, Canada

Papers submitted, accepted, rejected, and withdrawn

(Breakdown: AP, URSI, URSI from US authors, URSI from Canadian authors)

Submitted	Accepted	Rejected	Withdrawn
Total Submitted: 1974	Total Accepted: 1867	Total Rejected: 105	Total Withdrawn: 31
- AP Submitted: 1392	- AP Accepted: 1301	- AP Rejected: 89	- AP Withdrawn: 24
- URSI Submitted: 572	- URSI Accepted: 549	- URSI Rejected: 16	- URSI Withdrawn: 7
- URSI From US: 328	- URSI from US: 322	- URSI From US: 6	- URSI from US: 6
- URSI From Canada: 56	- URSI from Canada: 56	- URSI From Canada: 0	- URSI from Canada: 0

2017 IEEE AP-S International Symposium & USNC-URSI Meeting, **San Diego**, California

URSI	Submitted Papers	Accepted Papers	Withdrawn Papers	Sessions
A	34	32	2	4
B	233	224	9	34
C	20	16	4	3
D	10	6	4	1
E	10	9	1	1
F	54	52	2	7
G	0	0	0	0
J	0	0	0	1
K	23	20	3	3
URSI Special	54	52	2	0
Total	438	411	27	54

2016 IEEE AP-S International Symposium & USNC-URSI Meeting, Fajardo, **Puerto Rico**

URSI	Submitted Papers	Accepted Papers	Sessions
A	29	23	3
B	217	195	27
C	19	17	3
D	7	7	1
E	7	7	1
F	48	38	6
G	0	0	0
J	2	2	1
K	15	14	3
URSI Special	58	55	0
Total	402	358	64

2017 IEEE AP-S International Symposium & USNC-URSI Meeting, **San Diego**, California

URSI	Submitted Papers	Accepted Papers	Withdrawn Papers	Sessions
A	34	32	2	4
B	233	224	9	34
C	20	16	4	3
D	10	6	4	1
E	10	9	1	1
F	54	52	2	7
G	0	0	0	0
J	0	0	0	1
K	23	20	3	3
URSI Special	54	52	2	0
Total				

2015 IEEE AP-S Int. Symposium & North American URSI Mtg., **Vancouver**, BC, Canada

URSI	Submitted Papers	Accepted Papers	Sessions
A	28	27	3
B	292	279	35
C	13	13	2
D	10	9	2
E	12	10	1
F	80	78	10
G	6	4	1
J	10	10	1
K	47	46	7
URSI Special	74	73	1
Total	572	549	64

2017 IEEE AP-S/URSI San Diego

URSI B Sessions – UB (34 sessions, 224 papers)

TH-UB.2P	3D Printed and Planar Structures		
TU-UB.2A	Acceleration Rechniques for Integral Equations		
FR-UB.2P	Advanced Concepts in Metamaterials		
TH-UB.1P	Advances in Differential Equation Based Methods		
TU-UB.1A	Advances in Integral Equation Methods I		
TU-UB.3P	Advances in Integral Equation Methods II		
WE-UB.2A	Antenna Measurements		
WE-UB.3A	Antenna Theory and Design		
TUP-UB.1P	Array Design and Optimization		
TUP-UB.2P	Arrays for Space, Satellite and Optical Applications		
TUP-UB.3P	Beamforming Networks for Antennas and Arrays		
TUP-UB.4P	Broadband and Tunable Arrays		
FR-UB.4A	Electromagnetic Interaction, Propagation and Scattering		
WE-UB.4A	Electromagnetic Metasurfaces		
MO-UB.4P	EM Educational Methods and Tools		
WE-UB.1P	Fast Methods and Parallelization Techniques		
FR-UB.2A	Frequency Domain Methods		
MO-UB.2P	Frequency Selective Surfaces and Filters		
FR-UB.3A	Hybrid and Optimization Techniques	MO-UB.3P	RFID and RF Measurements
MO-UB.1P	Metamaterial Based Designs	TU-UB.2P	Small Antennas
THP-UB.1P	Microstrip Antennas and Printed Devices	FR-UB.1P	Terahertz Antennas and Focal Plane Arrays
FR-UB.7P	Microwave Imaging	FR-UB.3P	Theory and Application of Guided Waves
TH-UB.2A	Millimeter Wave Antennas	FR-UB.1A	Time Domain Methods
FR-UB.6P	MIMO Antennas and Systems	FR-UB.5P	Wave-guiding Devices and Applications
WE-UB.1A	Miniature Antennas and Metamaterial Devices		
TU-UB.1P	Nano-antennas and Nano-structures		
FR-UB.4P	Propagation Phenomena and Scattering of EM Waves		
TH-UB.1A	Reconfigurable Antennas and Cognitive Radio		

2017 IEEE AP-S/URSI San Diego
AP-S/URSI Joint Special Sessions – SP (18 sessions)

Special Session in Honor of Per Simon Kildal

Advancement of Metasurfaces and Lenses beyond 4G and 5G

Higher Symmetries for Flat Meta-Lenses

Additive Manufacturing in Antennas and RF Systems

Compress

Physical R

Emerging

Theoretical

Automotive

Loaded Ar

Innovative Phased Arrays and Beamforming Technology

Applications of Electromagnetics and RF Techniques in Medicine and Biology

History of APS: Early Legends of the Field

Modern Longwave Antennas

In Body Devices for Wireless Biotelemetry: Implants and Ingestibles

Handset LTE Antenna Design and Challenges

Wideband Phased Arrays for 5G Wireless and Beyond

Benchmarking at the Frontiers of Computational EM

For Reference:

2012 APS/URSI Chicago, IL: 13 APS/URSI Joint Special Sessions

2013 APS/URSI Orlando, FL: 10 APS/URSI Joint Special Sessions

2014 APS/URSI Memphis, TN: 16 APS/URSI Joint Special Sessions

2015 APS/URSI Vancouver, Canada: 19 APS/URSI Joint Special Sessions

2016 APS/URSI Puerto Rico: 16 APS/URSI Joint Special Sessions

2017 APS/URSI San Diego: 18 APS/URSI Joint Special Sessions

mechanics

2017 National Radio Science Meeting

Conference Statistics

Total number of pre-registrants: 348

Total abstracts and summaries submitted: 425

Total abstracts and summaries accepted: 421

Number of sessions: 56

Total number of Student Travel Grant Award applications: 137

	2017	2016	2014	2013	2012	2011
Total No. of papers	421	375	399	364	369	358
Total No. of sessions	56	49	54	47	47	49
Total No. of travel grants	137	122	115	100	104	113

Commission B Regular Sessions, 2017 USNC-URSI NRSM, Boulder, Colorado
10 regular sessions, 75 papers (total URSI: **56 sessions, **421** papers)**

Regular Session Title	No. of Papers	Chairs
1. B3: Antennas	10	Dejan Filipovic, University of Colorado Boulder; Karl Warnick, Brigham Young University
2. B4: Scattering	5	Alex Yuffa, National Institute of Standards and Technology; Piergiorgio Uslenghi, University of Illinois at Chicago
3. B5: Liquid Metal Antennas	5	Jacob Adams, North Carolina State University; William Davis, Virginia Tech
4. B6: Complex Media and Nanoelectromagnetics	10	Edward Kuester, University of Colorado Boulder; Christos Argyropoulos, University of Nebraska-Lincoln
5. B8: Inverse Scattering and Remote Sensing	5	Piergiorgio Uslenghi, University of Illinois at Chicago; Pai-Yen Chen, University of Texas at Austin
6. B9: Antenna Arrays I	9	Randy Haupt, Colorado School of Mines; Dejan Filipovic, University of Colorado Boulder
7. B13: Antenna Measurements and Simulations	8	Steven Weiss, US Army Research Lab; Jeanne Quimby, NIST
8. B14: Antenna Arrays II	8	Dejan Filipovic, University of Colorado Boulder; Gokhan Mumcu, University of South Florida
9. B16: Microstrip Antennas and Printed Devices	9	Erdem Topsakal, Virginia Commonwealth University; Ozlem Kilic, The Catholic University of America
10. B17: Numerical Methods	6	Atef Elsherbeni, Colorado School of Mines; Melinda Piket-May, University of Colorado

Commission B Special Sessions, 2017 USNC-URSI NRSM, Boulder, Colorado

8 special sessions, 63 papers (total URSI: **56** sessions, **421** papers)

Special Session Title	No. of Papers	Organizers
1. Adv. Theory & Applications of Metamaterials	10	Filippo Capolino, UC Irvine, & Ashwin Iyer, Univ. of Alberta
2. Advances in CEM and Emerging Applications	10	Branislav Notaros, Colorado State, & Yahya Rahmat-Samii, UCLA
3. Adv. Analysis, Design, & Appl. of WG Structures	5	Michael Havrilla, Air Force Ins of Tech, & Edward Rothwell, Michigan State
4. Advanced Modeling of EM Propagation	6	Jamesina Simpson, Univ. of Utah & Robert Marshall, Univ. of Colorado
5. Terahertz Antennas and Applications	10	Kubilay Sertel, Ohio State, & Georgios Trichopoulos, Arizona State
6. Wearable Antennas and Electronics	9	Asimina Kiourti, Ohio State, & Bashir Morshed, Univ. of Memphis
7. Antennas for Small Satellites	4	Reyhan Baktur, Utah State, & David Jackson, Univ. of Houston
8. Magnetic Resonance Imaging B/D/K	9	Branislav Notaros, Colorado State, Zoya Popovic, Univ. of Colorado, Erdem Topsakal, Virginia Com. Univ.

Commission B Special Sessions for the 2018 USNC-URSI National Radio Science Meeting, Boulder, Colorado – 10 Special Sessions

1. Millimeter-Wave and 5G Antennas and Systems Shubhendu Bhardwaj, Ohio State, & Manos Tentzeris, Georgia Tech
2. Nonmagnetic and Nonreciprocal Devices Ethan Wang, UCLA, & Andrea Alu, Univ. of Texas
3. New CEM and HPC Approaches & Applications Ali Yilmaz, Univ. of Texas, & Zhen Peng, Univ. of New Mexico
4. Emerging Applications of Phased Arrays Karl Warnick, BYU, & Elias Alwan, Ohio State
5. Adv. Theory & Applications of Metamaterials Filippo Capolino, UC Irvine, & Ashwin Iyer, Univ. of Alberta
6. Adv. Analysis, Design, & Appl. of WG Structures Michael Havrilla, Air Force Ins of Technology, & Edward Rothwell, Michigan State
7. Wearable Antennas and Electronics Asimina Kiourti, Ohio State, & Bashir Morshed, Univ. of Memphis.
8. Antennas for Small Satellites Reyhan Baktur, Utah State, & David Jackson, Univ. of Houston
9. 3D Printed Antennas Jacob Adams, North Carolina State, & Hao Xin, Univ. of Arizona
10. Techniques for Modeling of Waves in Plasmas (BGH) Robert Marshall, U. of CO Boulder, Robert Lysak, U. of Minnesota, Mark Golkowski, U. of CO Denver

USNC/URSI Commission B Membership Committee

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

Commission B Business Meeting
San Diego, CA
July 2017

Membership Guidelines

- Required qualifications:
 - technical competence
 - evidence: nominee's publications
 - interest in the activities of URSI
 - evidence: nominee's participation in URSI symposia
- Minimum publication/presentation numbers:
 - Early Career Member
 - Co-author of one URSI presentation in Commission B and attendance at one USNC-URSI symposium
 - Associate Member
 - minimum of 2-3 publications
 - two URSI presentations (at least one in Commission B)
 - Full Member
 - U.S. citizen or permanent resident
 - minimum of 5-6 publications
 - three URSI presentations (at least two in Commission B)

Commission B Nominees

■ For Full Membership:

■ Maria Z. A. Pour

- 217C EB, 301 Sparkman Dr, Huntsville, AL, 35899
- maria.pour@uah.edu (256) 824-5431
- sponsor: Christos Christodoulou

■ Payam Nayeri

- Colorado School of Mines, 1610 Illinois St., Golden, CO 80401
- pnayeri@mines.edu (303) 273-3960
- sponsor: Sembiam Rengarajan

■ Stavros Georgakopoulos

- Florida International University, 10555 W. Flagler St., Engineering Center EC3900, Miami, FL 33174
- georgako@fiu.edu (305) 348-1262
- sponsor: John Volakis

Commission B Nominees

■ For Early Career Membership:

■ Marco David Poort

- 851 S Morgan St, University of Illinois at Chicago
- mpoort2@uic.edu (530) 220-3872
- Sponsor: Piergiorgio Uslenghi

■ Asimina Kiourti

- ElectroScience Lab, 1330 Kinnear Rd, Columbus OH 43212
- kiourti.1@osu.edu (614) 292-1627
- sponsor: John Volakis

■ Elias A. Alwan

- ElectroScience Lab, 1330 Kinnear Rd, Columbus OH 43212
- elias.alwan@gmail.com (614) 377-0198
- sponsor: John Volakis

Maria Pour

- U.S. permanent resident
- Ph.D., 2012, University of Manitoba
- Professional experience
 - 2015-present: Assistant Professor, University of Alabama Huntsville
 - 2012-2015: Research Associate, University of Manitoba
 - Radio frequency design engineer
- Research areas
 - Antenna theory, design, and analysis
 - Electrically large antennas and their primary feeds
 - Virtual aperture antennas
 - Adaptive and compact antennas for remote sensing applications
- Qualifications summary (Full Member)
 - Journal pubs: 15 (Radio Science, IEEE AP, AWPL, etc)
 - URSI-B presentations: 7
 - Participation in URSI:
 - AP/URSI 2010-2016, URSI EMTS 2013, URSI GASS 2014, NARSM Ottawa 2007, Session chair at 2014, 2016 AP/URSI, Reviewer for Radio Science

Payam Nayeri

- U.S. permanent resident
- Ph.D., 2012, University of Mississippi
- Professional experience
 - 2015-present: Assistant Professor, Colorado School of Mines
 - 2014-2015: Post-doctoral Fellow, Colorado School of Mines
 - 2012-2013: Post-doctoral Research Associate, University of Mississippi
- Research areas
 - Adaptive and multifunctional RF/microwave circuits and devices
 - Active and wideband beam-scanning antenna arrays
 - reflector and lens antennas, printed antennas antennas
- Qualifications summary (Full Member)
 - Journal pubs: 7 since 2013 (AP Trans, AP Magazine)
 - URSI-B presentations: 25
 - Participation in URSI:
 - 6 AP/URSI from 2009 to 2016, 5 URSI Boulder 2011-2017, AP/URSI TPC member and session chair 2014

Stavros Georgakopoulos

- U.S. citizen
- Ph.D., 2001, Arizona State University
- Professional experience
 - 2014-present: Associate Professor, Florida International University
 - 2007-2014: Assistant Professor, Florida International University
 - 2010-2007: Principal Engineer, SV Microwave, Inc
- Research areas
 - Reconfigurable antennas
 - Wireless power transfer
 - Applied electromagnetics
 - Microwave components, circuits and interconnects
- Qualifications summary (Full Member)
 - Journal pubs: 22 (AP Trans, AP Magazine, AWPL, Tans. EMC, etc.)
 - URSI-B presentations: 3
 - Participation in URSI:
 - 9 AP/URSI from 1998 to 2016

Marco Poort

- U.S. citizen
- B.S., 2015, Cal State, Chico
- Professional experience
 - Ph.D. student at UI, Chicago – expected graduation 2020
- Research areas
 - Electromagnetic scattering
- Qualifications summary (Early Career Member)
 - Journal pubs: 1 (Radio Science)
 - URSI-B presentations: 3
 - Participation in URSI:
 - 2016 Boulder meeting

Elias Alwan

- Non-U.S. citizen, Non-PR
- Ph.D., 2014, Ohio State
- Professional experience
 - 2014-present: Senior Research Associate, ESL/OSU
 - Starting Fall 2018: Assistant Professor, Florida International University
- Research areas
 - Antennas and RF systems
 - UWB communications systems
 - mm-wave technologies for 5G
- Qualifications summary (Early Career Member)
 - Journal pubs: 8 (AWPL, MTT, IEEE Access)
 - URSI-B presentations: 4
 - Participation in URSI:
 - Boulder 2013, 2017 (Others?)

Asimina Kiourti

- Non-U.S. citizen, Non-PR
- Ph.d., 2013, National Technical University of Athens, Greece
- Professional experience
 - 2016-present: Assistant Professor, Electroscience Laboratory, The Ohio State University
 - 2014-2016: Senior Research Associate, ESL/OSU
 - 2013-2014: Post-doc, ESL/OSU
- Research areas
 - Textile antennas
 - Antennas in biological systems
 - Biological sensors
- Qualifications summary (Early Career Member)
 - Journal pubs: 32 (Trans. AP, AWPL, Trans. Biomed, IEEE Sensors)
 - URSI-B presentations: 8
 - Participation in URSI:
 - AP/URSI (2011, 2012, 2014, 2017), URSI Boulder (2014,2016 – organized two special sessions)

Membership Committee Recommendations

- The Committee unanimously recommends
 - Election to full member for Maria Z. A. Pour
 - Election to full member for Payam Nayeri
 - Election to full member for Stavros Georgakopoulos
 - Election to early career member for Marco David Poort
 - Election to early career member for Elias A. Alwan
 - Election to early career member for Asimina Kiourti

Adam Mehrabani

- U.S. permanent resident
- Ph.D., 2015, University of Manitoba
- Professional experience
 - 2015-present: Post-doctoral Fellow, University of Manitoba
- Research areas
 - Antennas
 - Applied Electromagnetics
 - Microwave Components
- Qualifications summary (Full Member)
 - Journal pubs: 6 (MOTL, IET, AWPL)
 - URSI-B presentations: 6
 - Participation in URSI:
 - AP/URSI 2010-2016, ANTEM/CRSM 2009, URSI GASS 2008, Session chair at 2015AP/URSI