MINUTES
Commission B Business meeting
2018 USNC-URSI
National Radio Science Meeting
Boulder, CO, USA
January 5, 2018

1. Branislav Notaros passed around attendance sheets.
2. Chair Jamesina Simpson called meeting to order at 5:06 p.m.
3. Welcome to members and guests.
4. Introduction of guests.
5. Motion, second, and vote to approve minutes from San Diego July 2017 meeting. Minutes approved.
6. Thanks to John Volakis and Branislav Notaros for their service.
7. Introduction of new officers: Jamesina Simpson as USNC-URSI Commission B chair, Branislav Notaros as USNC-URSI Commission B vice chair, Satish Sharma as technical activities chair of USNC-URSI Commission B, Sembiam Rengarajan as USNC-URSI chair, Michael Newkirk as USNC-URSI secretary, and David Jackson as immediate past chair of USNC-URSI.
8. Individual membership for URSI is now an option, one may apply at www.ursi.org.
9. Upcoming conferences listed (please see Jamesina Simpson’s presentation slides for details)
10. Discussed 2019 USNC-URSI NSRM:
   - Meeting days of 9-12 Jan. were proposed.
   - Discussed when to post abstracts, ideas for plenary session, special session topics, possible short courses and workshops. Voted, motion passed.
   - Motion, second, and vote to post abstracts one week before the meeting. Motion passed.
• Special session topics suggested: Smart Cities, Cybersecurity.
• Plenary topics: DARPA reconfigurable phased arrays.
• David Jackson suggested adding “breakfast tutorials”.
• Discussion: Should we advertise and/or technically co-sponsor non-URSI meetings?
  o Ross Stone suggested that this be brought up for discussion at the USNC level.
• Discussion and suggestion: Encourage students and young scientists to become Early Career Members.

11. Technical Activities Report
• 2018 NRSM statistics
  o Pre-registrants: 356
  o Abstracts and summaries: 416 submitted, 414 accepted
  o Sessions: 59
  o Student travel grant award applications: 128, 6% non-U.S. papers
  o 10 Commission B special sessions with 70 papers, 8 regular sessions with around 51 papers.
• Discussion: advertise more internationally, but keep the meeting around 400 papers
• Call for special session topics for 2019 NRSM, please contact Satish Sharma, ssharma@mail.sdsu.edu
• Invite contributions on optics and nanoantennas.

12. Committee Report-- Membership Committee
• Ed Rothwell Presented Membership Report
• George Uslenghi had a student apply online for early career membership, what happened?
  o The issue was looked into and later found out that the student nominated was actually approved for membership at the previous summer meeting in San Diego. Issue resolved.
• Membership guidelines reviewed: technical competence and interest, publication/presentation numbers.
• Nominees for full membership: Salvatore Campione - Sandia, Ahmed Hassan - UMKC, Francesco Monticone - Cornell, Payal Majumdar – Patent law, TX, Joshua Kovitz – GTRI.
• Associate membership: Shubhendu Bhardwaj – FIU.
• Motion, second, and vote to approve all nominees. Motion passed.

13. Chair Report
• Logo competition to replace USNC-URSI logo. The outcome of the competition was the decision to leave the present USNC-URSI logo as it is.
14. Chair Report-- Old Business
   None.
15. Chair Report-- New Business
   None.
16. Meeting adjourned.

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

**Guests attended**
Mark Rueindana, Junming Diao, Mert Hidayetoglu, Aiyin Liu, Jordan Budhu, Vignesh Manohay, Yikun Huang, Jacob Adams, Salvatore Campione, Marco Roort, Yangqing Liu, Shubhendu Bhardwaj, Joshua Kovitz, Payal Majumdar, Junyu Shen, Vivek Bharanbe, Deanna Sessions, Ryan Green, Abdulaziz Haddab, Ben Orborn, Ahmed Balakhder, Mohmammad Al-Khaldi

**Members attended**
USNC-URSI Commission-B Business Meeting

Friday, 5 January 2018
5:00 – 6:00 p.m.

2018 USNC-URSI National Radio Science Meeting
Boulder, CO
January 4-7, 2018
Welcome to members and guests
Approval of the minutes of the San Diego meeting, July 2017
CHAIR REPORT
COMMITTEE REPORTS
  • Technical Activities Report (Branislav Notaros)
  • Membership Committee (Edward Rothwell)
Old business
New business
Adjourn
Chair Report

Thank you to John Volakis for his service as Chair during the last triennium!
Thank you to Branislav Notaros for his service as Technical Activities Chair during the last triennium!
USNC-URSI Commission B Officers 2018-2021

Chair: Jamesina Simpson (University of Utah)
Vice-Chair: Branislav Notaros (Colorado State University)
Secretary: Reyhan Baktur (Utah State University)
Chair, TAC: Satish Sharma (San Diego State University)
Chair, Membership Committee: Edward Rothwell (Michigan State University)
Webmaster: Chelsea Bock at National Academies (cbock@nas.edu)

http://sites.nationalacademies.org/pga/biso/URSI/PGA_080674
USNC-URSI Officers 2018-2021

Chair: Sembiam Rengarajan (California State University – Northridge)

Past-Chair: David Jackson (University of Houston)

Secretary and Chair-Elect: Michael Newkirk (Johns Hopkins APL)

Accounts Manager: Gary Brown (Virginia Polytechnic Institute and State University)
Individual Membership in URSI

- URSI has established Individual Members, Individual Associate Members, and Fellows
- Fellow by invitation only
- Individual Members and Associate Members by application through www.ursi.org
  - Requirements similar to USNC membership
  - Benefits: recognition, registration discounts at URSI meetings, and at some URSI cosponsored conferences (e.g., some IEEE conferences)
- Notification of RSB
- USNC-URSI Commission members encouraged to apply: will be automatically endorsed by USNC
Commission-B
Business Meeting

Chair Report

USNC-URSI Archive

http://sites.nationalacademies.org/PGA/biso/URSI/index.htm
Upcoming Conferences of Interest (1)

- 2018 Int. Workshop on Antenna Technology (iWAT), Nanjing, China, March 5-7
- 2018 ACES Conference, Denver, CO, March 24-29
- 2018 IEEE Conf. on Antenna Measurements & Appl. (CAMA), March 27-28
- 2018 2nd AT-RASC, Gran Canaria, 28 May-1 Jun
- 2018 ImBioC Conference, Philadelphia, June 14-15
- 2018 IGARSS, Valencia, Spain, July 23-27
- 2018 ANTEM, Aug. 19-22
Commission-B Business Meeting

Chair Report

Upcoming Conferences of Interest (2)

- 2018 ICEAA / IEEE APWC, Columbia, Sept. 10-14
- 2018 ISAP, Busan, Korea, Oct. 23-26
- 2019 AP-RASC, New Delhi, India, March 9-15
- 2019 URSI Commission B EMTS, San Diego, CA, May 27-31
- 2019 IEEE APS/URSI Symposium, Atlanta, GA, July 7-12
- 2020 IEEE APS/URSI Symposium and North American Radio Science Meeting, Montreal, Canada, July 19-24 (there will not be a USNC-URSI meeting in Boulder in 2020)
- 2020 URSI GASS 2020, Rome, Italy, Aug 29 – Sept 5
- 2021 IEEE APS/URSI Symposium, Singapore, July 10-16
2019 USNC-URSI National Radio Science Meeting

• The optimal dates are 9-12 Jan., 2019. Are there any issues / concerns with these dates?

• Should the abstracts be available on the USNC-URSI website one week in advance, 24 hours in advance, or on the first day of the conference?

• Did you like the themes of the plenary session today? Ideas for the plenary session in 2019?

• Ideas for special sessions for 2019?

• Do you have ideas for short courses, workshops, or tutorials?
Other Discussion Items

- Should we advertise non-URSI conferences on the USNC-URSI web page?
- Should USNC-URSI technically co-sponsor other meetings?
- Encourage students and young scientists to become Early Career Members.
Future Conferences

• The Joint Meetings Committee is actively seeking proposals for 2022 and later.

• Contact Ross Stone or Dave Michelson if you want information on how to propose.
Technical Activities Report: Branislav Notaros
Membership Committee: Ed Rothwell
Old Business?
New Business?
Adjourn
URSI Commission-B
Technical Activities Report
5 January 2018
Boulder, Colorado

Branislav M. Notaros
Colorado State University
2018 National Radio Science Meeting
Conference Statistics

Total number of pre-registrants: 356
Total abstracts and summaries submitted: 416

Total abstracts and summaries accepted: 414

Number of sessions: 59

Total number of Student Travel Grant Award applications: 128

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<td>Total No. of papers</td>
<td>414</td>
<td>421</td>
<td>375</td>
<td>399</td>
<td>364</td>
<td>369</td>
<td>358</td>
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<tr>
<td>Total No. of sessions</td>
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<td>56</td>
<td>49</td>
<td>54</td>
<td>47</td>
<td>47</td>
<td>49</td>
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<tr>
<td>Total No. of travel grants</td>
<td>128</td>
<td>137</td>
<td>122</td>
<td>115</td>
<td>100</td>
<td>104</td>
<td>113</td>
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# National Radio Science Meeting
## Conference Statistics

<table>
<thead>
<tr>
<th>Year</th>
<th># Papers</th>
<th># Sessions</th>
<th># Travel Grants</th>
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<tbody>
<tr>
<td>2011</td>
<td>358</td>
<td>49</td>
<td>113</td>
</tr>
<tr>
<td>2012</td>
<td>369</td>
<td>47</td>
<td>104</td>
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<tr>
<td>2013</td>
<td>364</td>
<td>47</td>
<td>100</td>
</tr>
<tr>
<td>2014</td>
<td>399</td>
<td>54</td>
<td>115</td>
</tr>
<tr>
<td>2015</td>
<td>NARSM</td>
<td>NARSM</td>
<td>NARSM</td>
</tr>
<tr>
<td>2016</td>
<td>375</td>
<td>49</td>
<td>122</td>
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<tr>
<td>2017</td>
<td>425</td>
<td>56</td>
<td>137</td>
</tr>
<tr>
<td>2018</td>
<td>414</td>
<td>59</td>
<td>128</td>
</tr>
</tbody>
</table>
## National Radio Science Meeting
### Conference Statistics
#### Registration as of Close of Online Pre-Registration

<table>
<thead>
<tr>
<th>Year</th>
<th>Early Reg.</th>
<th>Late Reg.</th>
<th>Student/Ret. Early</th>
<th>Student/Ret. Late</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>159</td>
<td>30</td>
<td>146</td>
<td>12</td>
<td>347</td>
</tr>
<tr>
<td>2012</td>
<td>158</td>
<td>40</td>
<td>134</td>
<td>18</td>
<td>350</td>
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<tr>
<td>2013</td>
<td>161</td>
<td>31</td>
<td>139</td>
<td>13</td>
<td>344</td>
</tr>
<tr>
<td>2014</td>
<td>134</td>
<td>35</td>
<td>149</td>
<td>11</td>
<td>329</td>
</tr>
<tr>
<td>2015</td>
<td>NARSM</td>
<td>NARSM</td>
<td>NARSM</td>
<td>NARSM</td>
<td>NARSM</td>
</tr>
<tr>
<td>2016</td>
<td>163</td>
<td>17</td>
<td>149</td>
<td>10</td>
<td>339</td>
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<tr>
<td>2017</td>
<td>143</td>
<td>33</td>
<td>136</td>
<td>30</td>
<td>342</td>
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<tr>
<td>2018</td>
<td>165</td>
<td>23</td>
<td>50</td>
<td>5+111*</td>
<td>354</td>
</tr>
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</table>

*111 includes early and late registration by student travel awardees
2017 and 2018 National Radio Science Meeting Conference Statistics

<table>
<thead>
<tr>
<th>Country</th>
<th>2017 Papers</th>
<th>2018 Country</th>
<th>2018 Papers</th>
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<tbody>
<tr>
<td>United States</td>
<td>404</td>
<td>United States</td>
<td>390</td>
</tr>
<tr>
<td>Canada</td>
<td>6</td>
<td>Canada</td>
<td>9</td>
</tr>
<tr>
<td>South Africa</td>
<td>4</td>
<td>Taiwan</td>
<td>3</td>
</tr>
<tr>
<td>Kuwait</td>
<td>3</td>
<td>Russian Federation</td>
<td>2</td>
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<tr>
<td>?</td>
<td>2</td>
<td>Czech Republic</td>
<td>2</td>
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<tr>
<td>Japan</td>
<td>1</td>
<td>Japan</td>
<td>2</td>
</tr>
<tr>
<td>France</td>
<td>1</td>
<td>France</td>
<td>2</td>
</tr>
<tr>
<td>China</td>
<td>1</td>
<td>Turkey, South Korea, Nigeria, India, China (1 each)</td>
<td>5</td>
</tr>
<tr>
<td>Brazil</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Australia</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>424</strong></td>
<td><strong>Total</strong></td>
<td><strong>416</strong></td>
</tr>
</tbody>
</table>

**2017**: About 5% of the papers (20 papers) have come from outside the U.S.

**2018**: About 6% of the papers (25 papers) have come from outside the U.S.
### Commission B Special Sessions, 2018 USNC-URSI NRSM, Boulder, Colorado

10 B special sessions, 70 papers, 8 B regular sessions, 51 papers (total URSI: 59 sessions, 414 papers)

<table>
<thead>
<tr>
<th>Special Session Title</th>
<th>No. of Papers</th>
<th>Organizers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Millimeter-Wave and 5G Antennas and Systems</td>
<td>6</td>
<td>Shubhendu Bhardwaj, Florida Int. Univ., &amp; Joshua Kovitz, Georgia Tech</td>
</tr>
<tr>
<td>2. Nonmagnetic and Nonreciprocal Devices</td>
<td>7</td>
<td>Ethan Wang, UCLA, &amp; Andrea Alu, Univ. of Texas</td>
</tr>
<tr>
<td>3. Advances in Computational Electromagnetics on Modern Computers</td>
<td>5</td>
<td>Ali Yilmaz, Univ. of Texas, &amp; Zhen Peng, Univ. of New Mexico</td>
</tr>
<tr>
<td>4. Emerging Applications of Phased Arrays</td>
<td>7</td>
<td>Karl Warnick, BYU, &amp; Elias Alwan, Florida Int. Univ.</td>
</tr>
<tr>
<td>5. Adv. Theory &amp; Applications of Metamaterials</td>
<td>9</td>
<td>Filippo Capolino, UC Irvine, &amp; Ashwin Iyer, Univ. of Alberta</td>
</tr>
<tr>
<td>7. Wearable Antennas and Electronics</td>
<td>7</td>
<td>Asimina Kiourti, Ohio State, &amp; Bashir Morshed, Univ. of Memphis</td>
</tr>
<tr>
<td>8. Antennas for Specialized Platforms: SmallSats, UAVs, and UUVs</td>
<td>5</td>
<td>Reyhan Baktur, Utah State, &amp; David Jackson, Univ. of Houston</td>
</tr>
<tr>
<td>9. 3D Printed Antennas</td>
<td>9</td>
<td>Hao Xin, Univ. of Arizona, &amp; Jacob Adams, North Carolina State</td>
</tr>
<tr>
<td>10. Techniques for Modeling of Waves in Plasmas (BGH)</td>
<td>5</td>
<td>Robert Marshall, Robert Lysak, Mark Golkowski</td>
</tr>
</tbody>
</table>
Commission B **Special** Sessions, 2017 USNC-URSI NRSM, Boulder, Colorado
10 special sessions, 70 papers  (total URSI: 59 sessions, 414 papers)

Commission B **Regular** Sessions, 2017 USNC-URSI NRSM, Boulder, Colorado
8 regular sessions, 51 papers  (total URSI: 59 sessions, 414 papers)

Commission B **Special** Sessions, 2017 USNC-URSI NRSM, Boulder, Colorado
8 special sessions, 63 papers  (total URSI: 56 sessions, 421 papers)

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

Commission B **Special** Sessions, 2016 USNC-URSI NRSM, Boulder, Colorado
9 special sessions, 54 papers  (total URSI: 49 sessions, 375 papers)

Commission B **Regular** Sessions, 2016 USNC-URSI NRSM, Boulder, Colorado
9 regular sessions, 73 papers  (total URSI: 49 sessions, 375 papers)
## Special Session Title

<table>
<thead>
<tr>
<th>No. of Papers</th>
<th>Organizers</th>
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<tbody>
<tr>
<td>6</td>
<td>Shubhendu Bhardwaj, Florida Int. Univ., &amp; Joshua Kovitz, Georgia Tech</td>
</tr>
<tr>
<td>7</td>
<td>Ethan Wang, UCLA, &amp; Andrea Alu, Univ. of Texas</td>
</tr>
<tr>
<td>5</td>
<td>Ali Yilmaz, Univ. of Texas, &amp; Zhen Peng, Univ. of New Mexico</td>
</tr>
<tr>
<td>7</td>
<td>Karl Warnick, BYU, &amp; Elias Alwan, Florida Int. Univ.</td>
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<tr>
<td>9</td>
<td>Filippo Capolino, UC Irvine, &amp; Ashwin Iyer, Univ. of Alberta</td>
</tr>
<tr>
<td>10</td>
<td>Michael Havrilla, Air Force Ins of Tech, &amp; Edward Rothwell, Michigan State</td>
</tr>
<tr>
<td>7</td>
<td>Asimina Kiourti, Ohio State, &amp; Bashir Morshed, Univ. of Memphis</td>
</tr>
<tr>
<td>5</td>
<td>Reyhan Baktur, Utah State, &amp; David Jackson, Univ. of Houston</td>
</tr>
<tr>
<td>9</td>
<td>Hao Xin, Univ. of Arizona, &amp; Jacob Adams, North Carolina State</td>
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<tr>
<td>5</td>
<td>Robert Marshall, Robert Lysak, Mark Golkowski</td>
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Next: Commission B Special Sessions, **2019 USNC-URSI NRSM**, Boulder, Colorado

Please send suggestions to Satish Sharma, ssharma@mail.sdsu.edu
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
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:

- Salvatore Campione
  - P.O. Box 5800 MS-1152 Albuquerque NM 87185
  - sncampi@sandia.gov (505) 844-3418
  - Sponsor: Filippo Capolino

- Ahmed Hassan
  - 5110 Rockhill Rd, KC, MO 64110
  - hassanam@umkc.edu (816) 235-6219
  - Sponsor: Jamesina Simpson

- Francesco Monticone
  - Cornell University, Phillips Hall, Ithaca, NY 14853-5401, USA
  - francesco.monticone@cornell.edu (607) 255-9471
  - Sponsor: Andrea Alu

- Payal Majumdar
  - 575 N. Dairy Ashford Rd, Suite 1102, Houston, Texas 77079
  - payalmajumdar.udsc@gmail.com (619) 737-7696
  - Sponsor: David Jackson
Commission B Nominees

- Joshua M. Kovitz
  - Georgia Tech Research Institute, 400 10th St NW, Atlanta, GA 30318
  - joshua.kovitz@gtri.gatech.edu (404) 407-6889
  - Sponsor: Yaya Rahmat-Samii

For Associate Membership:
- Shubhendu Bhardwaj
  - 10555 West Flagler Street, EC 3910, 33174, Miami, FL
  - sbhardwa@fiu.edu (540) 624-9098
  - sponsor: John Volakis

For Early Career Membership:
Salvatore Campione

- U.S. permanent resident
- Ph.D., 2013, University of California Irvine
- Professional experience
  - 2016-present: Senior Member of Technical Staff, Electromagnetic Theory Department, Sandia National Laboratories
  - 2014-2016: Postdoc, Applied Photonics Microsystems Department, Sandia National Laboratories
- Research areas
  - Optics, metamaterials, scattering, plasmonics, metasurfaces
- Qualifications summary (Full Member)
  - Journal pubs: 66 (IEEE, JOSA, APL, Phys. Rev. B, etc.)
  - URSI-B presentations: 12
  - Participation in URSI:
      (Young Scientist Award)
Ahmed Hassan

- U.S. permanent resident
- Ph.D., 2010, University of Arkansas-Fayetteville
- Professional experience
  - 2015-present: Assistant Professor & Director of Multiscale Multidisciplinary Electromagnetics Lab, University of Missouri-Kansas City
  - 2012-2015: Post-doctoral Researcher, NIST
  - 2011-2012: Post-doctoral Fellow, University of Arkansas-Fayetteville
- Research areas
  - Nanoelectromagnetics, Bioelectromagnetics, EMC/EMI, Microwave imaging, NDE
- Qualifications summary (Full Member)
  - Journal pubs: 18 (IEEE Trans AP/MTT/BME, AWPL)
  - URSI-B presentations: 19
  - Participation in URSI:
Francesco Monticone

- U.S. permanent resident
- Ph.D., 2016, University of Texas, Austin
- Professional experience
  - 2017-present: Assistant Professor, Cornell University
- Research areas
  - Metamaterials, nanostructures, nanophotonics
- Qualifications summary (Full Member)
  - Journal pubs: 32 (Science, Nature Communications, Nature Nanotechnology, etc.)
  - URSI-B presentations: 14
  - Participation in URSI:
Payal Majumdar

- U.S. permanent resident
- Ph.D., 2012, University of Delhi, South Campus
- Professional experience
  - She is currently a Technical Advisor at Conley Rose PC, Houston, TX
  - 2012-2014: Post-doctoral Research Fellow, Kuang-Chi Institute of Advanced Technology, Shenzhen, China
- Research areas
  - Wireless Communications, Metamaterials, Optical Physics, Antenna Design, Microstrip Antennas, Computational Electromagnetics, Radio Frequency (RF), and Microwave Design
- Qualifications summary (Full Member)
  - Journal pubs: 13 (Electromagnetics, IET Microwaves, Antennas & Propagation, etc.)
  - URSI-B presentations: 7
  - Participation in URSI:
Joshua Kovitz

- U.S. citizen
- Ph.D., 2015, University of California, Los Angeles
- Professional experience
  - 2017-present: Research Engineer, GTRI
- Research areas
  - Deployable Arrays for SmallSats, Antenna and Microwave Device Modeling, Low-loss Reconfigurable Antennas and Feed Networks
- Qualifications summary (Full Member)
  - URSI-B presentations: 12
  - Participation in URSI:
    - AP/URSI 2011-2016 (session chair, 2014), NRSM 2011-2014, 2018 (session chair), GASS 2017 (attended business meeting), 2017 URSI Young Scientist Award
Shubhendu Bhardwaj

Non-U.S. citizen, Non-PR
Ph.D., 2017, The Ohio State University
Professional experience
  2017-present: Assistant Professor, Florida International University
Research areas
  Textile antennas, slow-wave structures, EBGs, metamaterial-based transmission lines, computational and multiphysics electromagnetics, mm-wave and terahertz antennas
Qualifications summary (Associate Member)
  Journal pubs: 6 (J. AP, AWPL, Trans. AP, MOTL, etc.)
  URSI-B presentations: 7
  Participation in URSI:
Membership Committee Recommendations

The Committee unanimously recommends

- Election to full member for
  - Salvatore Campione
  - Ahmed Hassan
  - Francesco Monticone
  - Payal Majumdar
  - Joshua Kovitz

- Election to associate member for
  - Shubhendu Bhardwaj