Special Sessions for USNC-URSI NRSM 2023

Commission A
None

Commission B
1. Low-Profile Millimeter-Wave/Terahertz Antennas for Mobile and Space Applications
   a. Goutam Chattopadhyyay, JPL-NASA (goutam.chattopadhyay@jpl.nasa.gov) and
   b. Satish K. Sharma, San Diego State University (ssharma@sdsu.edu)
2. Wearable antennas for WiFi, IoT, and 5G applications (Joint Commission B and K Session)
   a. Sima Noghanian, CommScope, (sima_noghanian@ieee.org) and
   b. Yahia Rahmat-Samii, University of California, Los Angeles (rahmat@ee.ucla.edu)
3. Antennas and Systems for Specialized Platforms and Environments
   a. Reyhan Baktur (reyhan.baktur@usu.edu), Utah State University and
   b. David R. Jackson, University of Houston (djackson@uh.edu)
4. Multiscale and Stochastic Modeling in Computational Electromagnetics
   a. Ata Zadehgol, University of Idaho (azadehgol@uidaho.edu) and
   b. Johannes Russer, Technical University of Munich (jrusser@tum.de)
5. Novel Electrically Small Antennas and Matching Networks
   a. Ting-Yen Shih, University of Idaho (tshih@uidaho.edu) and
   b. Kai Ren, Wentworth Institute of Technology (renk@wit.edu)
6. Complex EM and Meta Structures
   a. Filippo Capolino, University of California, Irvine (f.capolino@uci.edu) and
   b. Juan Sebastian Gomez Diaz, University of California, Davis (jsgomez@ucdavis.edu)
7. Antennas for Planetary Exploration
   a. Avinash Sharma, avinash.sharma@jhuapl.edu
   b. Matthew Bray, matthew.bray@jhuapl.edu

Commission D
1. Cryogenic devices and circuits for RF applications and metrology –
   a. Leonardo Ranzani (leonardo.ranzani@raytheon.com) and
   b. Akim Babenko (akimbabenko@gmail.com)
2. Millimeter-wave components for next-G comms –
   a. Jon Chisum jchisum@nd.edu and
   b. Philip Zurek (phil.zurek@gmail.com)

Commission E
No special sessions. One regular E session organized by:
- Dave Giri, giri@dvgiri.com
- Robert Gardner, robert.gardner@gtri.gatech.edu

Commission F
- Machine learning applied to complex propagation models
• CubeSats and SmallSats for remote sensing applications
  o Steve Reising: Steven.Reising@colostate.edu
  o David Kunkee: David.Kunkee@aero.org

Commission G

• Honoring Patricia Doherty: Ionospheric Effects and Space Weather Research, Education, and Outreach
  o Sigrid Close, sigridc@stanford.edu
  o Anthea Coster, costera@mit.edu

Commission H

1. Physics of the radiation belts
   Oleksiy Agapitov Oleksiy.agapitov@gmail.com
   Lauren Blum Lauren.blum@lasp.colorado.edu
2. Active experiments in Laboratory and space plasmas
   Erik Tejero erik.tejero@nrl.navy.mil
   Bill Amatucci bill.amatucci@nrl.navy.mil
   Gian Luca Delzanno delzanno@lanl.gov
3. Lightning and the ionosphere (EGH)
   Josh Santos (santos0002@ufl.edu)
   Gaopeng Lu gaopengluz@gmail.com
4. Heliospheric observations of waves in plasmas
   David Malaspina, David.Malaspina@lasp.colorado.edu
   James Labelle, james.w.labelle@dartmouth.edu
5. Meteors, orbital debris and dusty plasmas (GH)
   Alex Fletcher, Alex.fletcher@nrl.navy.mil
   Liane Tarnecki, liane.tarnecki@colorado.edu
6. GNSS and radio beacon remote sensing (FGH)
   Yang Wang yang.wang-2@colorado.edu
   Mohammad Al-Khaldi (malkhaldi@ucar.edu)
   Scott Gleason (gleason@ucar.edu)
7. Machine learning techniques for near-earth space sciences (GH)
   Vijay Harid (vijay.harid@ucdenver.edu)
   Xiangning Chu xiangning.chu@colorado.edu
   Kshitija Deshpande DESHPANK@erau.edu

Commission J

1. Title: Space-based Radio Astronomy on Small Platforms
   Organizers:
   • Kari Haworth (kari.haworth@cfa.harvard.edu)
   • Joseph Lazio (joseph.lazio@jpl.nasa.gov)
2. Title: Intensity Mapping at Millimeter and Sub-millimeter Wavelengths
   Organizers:
3. Title: Millimeter/Sub-millimeter Receiver Technologies
   Organizers:
   • Chris Groppi (cgroppi@asu.edu)
   • Gopal Narayanan (gopal@astro.umass.edu)
4. Regular (recurring) topics:
   - New Telescopes, Techniques, and Technology
   - Observatory Reports
   - Timely Technical Tutorials

Commission K
1. (Joint K/B), Sima Noghanian (sima_noghanian@ieee.org) and Yahya Rahmat-Samii (rahmat@ee.ucla.edu), “Wearable antennas for WiFi, IoT, and 5G applications”
2. (K only), Ifana Mahbub (ifana.mahbub@unt.edu) and Abas Sabouni (abas.sabouni@wilkes.edu), “Wireless Power Transfer Techniques for Biomedical Applications”
3. (K only), Emily Porter (Emily.Porter@austin.utexas.edu) and Punit Prakash (prakashp@k-state.edu), “Electromagnetic-based Technologies for Health: Treatment, Detection, and Monitoring”