

USNC-URSI Commission F Business Meeting

**January 9, 2019
Boulder, Colorado**

**Minutes recorded by Thomas Hanley
Vice-Chair, USNC-URSI Commission F**

1. Call to Order and Welcome & Introductions

The meeting was called to order by Chair Kamal Sarabandi at 5:04 PM MST in room 155.

2. Circulation of Sign-in Sheets

3. Approval of 2018 business meeting minutes (January 4, 2018, Boulder)

These minutes were unanimously approved

4. USNC-URSI 2018-2020 Triennium

Officers

- Sembiam Rengarajan – Chair
- Michael Newkirk – Chair-Elect
- David Jackson – Immediate Past Chair
- Gary Brown – Accounts Manager

Member At Large from Commission F

- Al Gasiewski
- Mahta Moghaddam

IEEE-APS/USNC-URSI Joint Meetings Committee (JMC) Representative from Commission F

- Gary Brown
- Ross Stone

Society Representatives from Commission F

- Steven Reising – IEEE Microwave Theory and Techniques (MTT-S)
- William J. Blackwell – American Meteorological Society (AMS)
- V. Chandrasekar - IEEE Geoscience and Remote Sensing Society (GRSS)

International URSI

- Piergiorgio L. E. Uslenghi – URSI Vice-President
- W. Ross Stone – Assistant Secretary General for Publications
- W. Ross Stone – Assistant Secretary General for GASS
- Amir Zaghoul – Chair, Commission C
- V. Chandrasekar – Chair, Commission F

- Patricia Doherty – Chair, Commission G
- Richard F. Bradley – Chair, Commission J
- John Volakis – Vice-Chair, Commission B

USNC-URSI Commission F Officers

- Kamal Sarabandi – Chair
- Tom Hanley – Vice-Chair
- David Kunkee – Secretary
- Saba Mudaliar – Membership Chair
- Ray Wasky – Web Liaison

5. Commission F Membership Nominations

No new membership applications were submitted, but the categories for membership were reviewed and members were encouraged to submit nominations.

6. USNC-URSI & URSI Announcements

Radio Science Bulletin (RSB)

- Since the Montreal GASS, the *RSB* has been running late
- It is now back on schedule
- We are actively soliciting papers
- Of broader interest (understandable by those from other Commissions)
- Tutorial and review papers also welcome
- Available as an open-access publication on IEEE Xplore, with no article processing charges

URSI Radio Science Letters

- URSI is launching a new open-access publication
- Rapid-publication letters journal, covering the scope of the 10 Commissions of URSI
- Four-page maximum paper length
- Electronic only publication
- Accept, accept with minor revision, reject with encouragement to resubmit, reject
- \$150/page URSI member; \$175/page non-member for article processing fee
- Fully edited
- George Uslenghi is the founding Editor-in-Chief

Individual Membership in URSI

- Individual Members and Associate Members by application through www.ursi.org
 - Requirements similar to USNC membership
 - Benefits: recognition, registration discounts at URSI meetings starting with AT-RASC 2018, and at some URSI cosponsored conferences (e.g., some IEEE conferences)
 - Notification of *RSB*
 - Reduced page charges in *RSL*
- USNC-URSI Commission members will be automatically endorsed by USNC

- Urge your Commission members to join!

7. Meetings

Past URSI Meetings (2018)

- AT-RASC, May 28 – June 1
 - Gran Canaria, Spain
- IEEE-APS/USNC-URSI, 8-14 July
 - Boston, MA
- IGARSS, 23-27 July
 - Valencia, Spain

Present USNC-URSI NRSM

- Registrations: 312 (pre-registrants)
- Accepted Abstracts: 341(vs. 416 in 2018, 425 in 2017)
- Sessions: 46 (vs. 59 in 2018, 56 in 2017)
- Commission F:
 - **6 organized sessions** (one joint with Commissions G&H)
 - **49 total papers** (vs. 67 in 2018, 69 in 2017)
- **6th Hans Liebe Lecture on Friday** (12:15), Math Auditorium:
 - Domenico Cimini, Institute of Methodologies for Environmental Analysis (CNR–IMAA), C.da S.Loja, Tito Scalo (Potenza), ITALY
 - FOSTERING GROUND–BASED MICROWAVE RADIOMETRY: FROM UNCERTAINTY TO NETWORKING
 - **Please attend and bring your lunch!**
- Student travel fellowship reimbursement
 - **109 students supported** (vs. 128 in 2018, 137 in 2017)
- USNC Student Paper Contest
 - Organized by Erdem Topsakal
 - Three finalists compete on Thursday morning
 - Awards of \$1000, \$750, \$500 + travel expenses were provided
 - Please **encourage students to apply** for the 2021 contest
- Plenary Session: Organized by Commissions C & J
 - IEEE SMART AG INITIATIVE: TECHNOLOGY APPLIED TO THE FOOD SUPPLY CHAIN
 - ATACAMA LARGE MILLIMETER ARRAY (ALMA) IN 2030
- Commission F Sessions & number of papers:
 - F1: Random and Complex Media Models (10)
 - Co-Chairs: Brown & Mudaliar
 - F2: Microwave Remote Sensing of the Earth (10)
 - Co-Chairs: Hanley & Kunkee
 - F3: RF Propagation Utilizing Numerical Weather Prediction (8)
 - Co-Chairs: Haack, Hanley & Mulreany
 - F4: Remote Sensing: Small Satellites and RFI Mitigation (10)
 - Co-Chairs: Reising & Gasiewski
 - F5: Point–to–Point Propagation Effects: Measurements and Models (5)

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- Co-Chairs: Newkirk & Michelson
- FGH: GNSS and Radio Beacon Remote Sensing (6)
 - Co-Chairs: Chew & Siefring

XXXIIIrd URSI GASS

- August 29-September 5, 2020, La Sapienza University, Rome, Italy
- Venue chosen because of central location in Rome, lower cost for use of venue
- Rooms are air conditioned
- Spread over three floors, substantial distances between some rooms
- Poster sessions outside in (air conditioned?) tents
- Lunch also probably in tents
- Important: Commission sessions will be finalized at the AP-RASC 2019 March 9-15, 2019, New Delhi
 - Contact international Commission Chair in next few weeks if you want to propose a session

Future GASS

- 2023: Sapporo Convention Center, Sapporo, Japan, most probably in August 2023

AP-RASC 2019

- AP-RASC 2019: March 9-15, 2019, India Habitat Centre, New Delhi, India
- If you are planning to attend, apply for your visa *now!*
 - It takes well over a month to get a visa
- Strongly suggest making hotel reservation now: Recommend Taj Ambassador Vivanta if available

Upcoming Meetings: IEEE AP-S Joint Symposia

- July 7-12, 2019, Atlanta, GA, John Papapolymerou
Paper submission: January 18, 2019
www.2019apsursi.org
- July 19-24, 2020, Montreal, Canada, Ahmed Kishk
Note: no NRSM in 2020; NARSM in Montreal
 - Confirmed there will be student paper competition for URSI at Atlanta meeting
- July 10-16, 2021, Singapore
Zhi Ning Chen, General Chair
Zhongxiang Shen and Xianming Qing, Co-Chairs
- July 10-15, 2022, Denver, Colorado, Branislav Notaros

2021 Singapore

- July 10-16, 2021
- Zhi Ning Chen, General Chair; Zhongxiang Shen and Xianming Qing, General Co-Chairs
- CMS and CMA have agreed to joint statements of work
- Both contracts now with IEEE
- Trying to get contract with Marina Bay Sands venue

EMTS 2019

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- URSI Commission B EM Theory Symposium
- May 28-31, 2019
- Westin San Diego

Other Future URSI Meetings

- URSI GASS 2020: August 29 – September 5, 2020 Sapienza University, Rome, Italy
- URSI AT-RASC 2021: May 23-28, 2021, Gran Canaria, Spain
- URSI GASS 2023: Sapporo Convention Center, Sapporo, Japan, most probably in August 2023

Other Future URSI Meetings

- March 31-April 5, 2019: European Conf. on Antennas and Propagation (EuCAP), Krakow, Poland
- July 28-August 2, 2019: IEEE Geoscience and Remote Sensing Symposium (IGARSS), Yokohama, Japan
- September 9-13, 2019: International Conference on EM in Advanced Applications (ICEAA)/ IEEE-AP-S Conference on Antennas and Propagation in Wireless Communications, Granada, Spain (March 8, 2019)
- October 27-30, 2019: International Symposium on Antennas and Propagation (ISAP), Xi'an, China (June 10, 2019)
- November 4-7, 2019: 8th IEEE International Symposium on Microwave, Antenna, Propagation, and EMC Technologies (MAPE 2019) Shenzhen, China (July 31, 2019)
- November 4-8, 2019: 4th Symposium of the Committee on Space Research (COSPAR), Herzliya, Israel (April 30, 2019)

Suggested topics for NARSM in 2020 and/or NRSM in 2021 (Listing of sessions from 2019)

- GNSS and Radio Beacon and Remote Sensing (Joint HFG)
 - Chew and Siefring
- Complex and Random Media
 - Mudaliar and Brown
- RF Prop. Using Numerical Weather Prediction
 - Haack, Hanley, Mulreany
- Remote Sensing: Small Sats. and RFI Mitigation
 - Reising and Gasiewski
- Others?
 - Point-to-point propagation
 - Please email title and organizers ASAP

8. USNC-URSI Action Items

- 1) This year USNC-URSI provided advance download of NRSM Abstracts & Summaries. Please provide feedback.
People thought this was useful but should be distributed to wider list
- 2) Now that the USB contents are available for download, is there any interest in still getting the USB drive with registration? USNC-URSI would save money if those are no longer provided.

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Keep both formats until the storage location for the archive is more finalized and folks are more used to getting the materials electronically.

- 3) Will your commission participate in the 2021 Singapore and 2022 Denver summer meetings with AP-S?

Yes

- 4) Is there interest in using a conference app instead of the traditional printed program (one or the other, not both) for future meetings?

Interest in both formats going forward. Some concern was expressed about the cost and logistics of integrating the abstract data.

- 5) USNC currently has only one award (Booker Fellowship) given every three years. Does your Commission have any suggestions for USNC-URSI to institute annual awards?

Best paper, not just for students; lifetime contribution award; service award

- 6) USNC-URSI has formed an exploratory committee to develop recommendations for short courses, tutorials and/or workshops. Is anyone interested in participating on the committee, being a presenter or have ideas for topics?

None offered. Attendees were asked to submit ideas to the Commission F officers

- 7) USNC-URSI is considering the formation of a Social Media committee to help publicize NRSN topics, events, awards and announcements (through Twitter, for example). Is there any interest in participation?

Check with Steve Reising as possible candidate

- 8) USNC-URSI would like to form a Chapter of Women in Radio Science. Please provide contact info for those interested in serving as officers of the chapter.

None offered. Attendees were asked to submit ideas to the Commission F officers

- 9) Please provide Plenary Session topic ideas for NRSN 2021

None offered. Attendees were asked to submit ideas to the Commission F officers

- 10) USNC-URSI is considering a reduced registration rate for post-doctoral attendees. Does your commission support this idea?

Yes, as long as it can be afforded

9. Adjourn

The meeting was adjourned at 5:58 PM MST

Attendance List

Commission F Members (16)

Gary Brown
Jonathan Gehman
Tracy Haack
Thomas Hanley
Mehmet Kurum
Roger Lang
Dave Michelson (Canadian National
Committee Commission F member)
Saba Mudaliar
Michael Newkirk
Branislav Notaros
Kamal Sarabandi
Fredrick Solheim
W. Ross Stone
Christopher Williams
Caglar Yardim
Valery Zavorotny

Guests (7)

Abby Anderson
Dylan Ray Boyd
Daniel Breton
Orhan Eroglu
Shivani Joshi
Andrew Kammerer
Omkar Pradhan