

# **USNC-URSI Commission F Business Meeting**

**January 8, 2014  
Boulder, Colorado**

**DRAFT Minutes recorded by Mike Newkirk  
Vice-Chair, USNC-URSI Commission F**

## **1. Call to Order and Welcome & Introductions**

The meeting was called to order by V. Chandrasekar at 5:05 pm.

## **2. Circulation of Sign-in Sheets**

## **3. Approval of 2013 business meeting minutes (January 9, 2013, Boulder)**

Forwarded by Mike Newkirk to USNC Commission F members on 12/30/13. These minutes were unanimously approved.

## **4. USNC Officers for 2012-2014 Triennium**

### USNC-URSI, 2012-2014

- Steven Reising – Chair
- David Jackson – Secretary
- Yahya Rahmat-Samii – Past Chair
- Gary Brown – Accounts Manager
- Janet Stapleton – Member-at-Large and Commission F Member

Web site is <http://www.usnc-ursi.org> .

### USNC-URSI Commission F, 2012-2014

- V. Chandrasekar –Chair
- Mike Newkirk – Vice-Chair
- Kamal Sarabandi – Secretary
- Saba Mudaliar – Membership Chair
- Ray Wasky – Webmaster

### International URSI, 2012-2014

- George Uslenghi – Vice-President, International URSI
- Bill Davis –Chair, URSI Commission A
- David Giri – Vice-Chair, Commission E
- Roger Lang – Chair, Commission F
- John Matthews – Chair, Commission G
- Meers Oppenheim, Vice-Chair, Commission H
- Ross Stone, Assistant Secretary General (Publications) & Chair, Standing Committee on Publications

## 5. Announcements

- IEEE Xplore archival of USNC-URSI abstracts was encouraged; the deadline for submitting IEEE Copyright form for abstracts submitted to the current meeting is 17 January 2014
- Members were strongly encouraged to attend the First Hans Liebe Lecture, scheduled for lunchtime on Friday, January 10, 2014. The intent is for this to be an regular event at future USNC-URSI meetings.
- Members were reminded that a LinkedIn Group has been created for USNC-URSI; all are encouraged to participate in the discussion to help generate ideas for future USNC-URSI meetings.

## 6. USNC Status

USNC finances: \$287K positive as of 12/30/13.

- Income is generated from NRSM and IEEE-APS/USNC-URSI Meetings
- Budget is maintained by Gary Brown, USNC-URSI Accounts Manager

## 7. Commission F Membership Nominations

Mike Newkirk presented the qualifications on behalf of Saba Mudaliar for one new candidate: Alireza Tabatabaenejad, University of Southern California (sponsored by Mahta Moghaddam). Mahta provided information in support of the nominee. He met the qualifications for membership, and was unanimously elected a new member of Commission F.

## 8. Meetings

### A. Past Meetings (2013)

NRSM, 9-11 January, Boulder, CO

- Abstracts: 364 (vs 369 final in 2012)
- Registrations: 344 (vs 350 final in 2012, 347 in 2011)
- Sessions: 47 (vs 47 in 2012, 49 in 2011)
- Commission F: 10 organized and special sessions, including 4 joint sessions with Commissions E, G, H and J; 81 total papers (vs. 77 in 2012, 72 in 2011), including one student paper submission
- Plenary: Remote Sensing & Communications Systems in Disaster Mitigation & response Jointly organized by Commissions C & F
- Student travel fellowship grants (\$600 for 1<sup>st</sup> author students from US universities), 105 supported students (vs. 104 in 2012, 113 in 2011).
- Ernest K. Smith Student Paper Contest: 21 papers submitted (vs. 15 in 2012). Awards of \$1000, \$750, and \$500 + travel expenses to be provided. One Commission F paper submitted. Contest organized by Danilo Erricolo.

IEEE-APS/USNC-URSI, Orlando, FL, 7-13 July

IGARSS, Melbourne, Australia, 21-26 July 2013

Microwave Signatures, Helsinki, 28-31 Oct 2013

## B. Present Meeting

USNC-URSI National Radio Science Meeting, January 8-10, 2014

- Abstracts: 399 (vs. 364 final in 2013)
- Registrations: 329 as of 1/1/14 (vs. 344 final in 2013)
- Sessions: 54 (vs. 47 in 2013, 45 in 2010)
- Commission F: 9 organized/special sessions, 3 joint sessions (2xFGH, FB), 90 total papers (vs. 81 in 2013)
- Plenary Session: Atom-Based Metrology – organized by Commissions A & D
- Student travel fellowship grants (\$600 for 1st author students from US universities), 115 supported students (vs. 104 in 2012).
- Ernest K. Smith Student Paper Contest: 11 papers submitted (vs. 15 in 2013). Awards of \$1000, \$750, and \$500 + travel expenses to be provided. Contest organized by Danilo Erricolo.

### Commission F Sessions:

- F1: Propagation and remote Sensing in Random Media (7 papers)
  - Co-Chairs: Brown and Johnson
- F2: Propagation Modeling, Measurements and Effects (9 papers)
  - Co-Chairs: Newkirk & Marshall
- F3: Radar remote Sensing of Earth Environment ( 5 papers )
  - Co-Chairs: Moghaddam and Chandrasekar
- F4: Memorial Session for Prof. R.K.Moore (6 papers)
  - Co-Chairs: Gogineni and Chandrasekar
- F5: Mesoscale Numerical Weather prediction for propagation modeling (10 papers)
  - Co-Chairs: Haack and Horgan
- F6: Computational Electromagnetics for Hydrometeors (5 papers)
  - Co-Chairs: Tynnela and Aydin
- F7: Radio Frequency Interference Mitigation and Radiometry (4 papers)
  - Co-Chairs: Kunkee and Misra
- F8: Mesoscale Numerical Weather prediction for propagation modeling II (4 papers)
  - Co-Chairs: Haack and Horgan
- F9: Passive remote Sensing of Earth Environment (11 papers)
  - Co-Chairs: Gasiewski and Reising
- FB1: Small Satellite radio Science and Technology (10 papers)
  - Co-Chairs: Blackwell and Baktur
- FGH-1: GNSS and radio beacon Remote Sensing (10 papers)
  - Co-Chairs: Carrano and Siefring
- FGH2: GNSS and radio beacon Remote Sensing (9 papers)
  - Co-Chairs: Carrano and Siefring

### C. Future URSI & Related Meetings

IEEE AP-S International Symposium & USNC-URSI National Radio Science Meetings:

- 2014 – Memphis, TN, USA, 6-12 July
  - USNC Commission F will participate in this meeting.
- 2015 – Vancouver, Canada, 17-25 July
  - This will be a North American Radio Science Meeting, so there will be no 2015 Boulder NRSM
- 2016 – San Juan, Puerto Rico, 25 June – 3 July
- 2017 – San Diego, CA, 9-15 July
- 2018 – Boston, MA or Las Vegas, NV
- 2019 – Atlanta, GA

IEEE International Geoscience & Remote Sensing Symposia (IGARSS):

- 2014 – Quebec City, Canada, 13-18 July
- 2015 – Milan, Italy, 26-31 July
- 2016 – Beijing, China, 26 June – 1 July
- 2017 – Fort Worth, TX, 23-28 July

Note: IGARSS moving to notional three-year (Americas, Europe/Middle East/Africa, and Asia/Pacific) rotation.

IEEE Radio and Wireless Symposium (RWS2014), 19-22 January, 2014, Newport Beach, CA

VERSIM-6: Sixth VERSIM Workshop, 20-23 January 2014, Dunedin, New Zealand

SPIN 2014: International Conference on Signal Processing and Integrated Networks, 21-22 February 2014, Noida, India

2014 International Workshop on Antenna Technology (IWAT 2014) Small Antennas, Novel EM Structures and Materials, and Applications, 4-6 March 2014, Sydney, Australia.

European Conference on Antennas & Propagation (EuCAP 2014), 6-11 April 2014, The Hague, The Netherlands

RADIO 2014: Radio and Antenna Days of the Indian Ocean 2014, 7-10 April 2014, Flic-en-Flac, Mauritius

EMC'2014: 2014 International Symposium on Electromagnetic Compatibility, 13-26 May 2014, Tokyo, Japan

2014 IEEE Radar Conference, 19-23 May 2014, Cincinnati, OH

EUSAR 2014: 10th European Conference on Synthetic Aperture Radar, 2-6 June 2014, Berlin, Germany

COSPAR 2014 (“COSMOS”): 40th Scientific Assembly of the Committee on Space Research (COSPAR) and Associated Events, 2-10 August 2014, Moscow, Russia

ICEAA 2014/APWC: International Conference on Electromagnetics in Advanced Applications/IEEE AP-S Antennas and Propagation for Wireless Communications, 3-9 August 2014, Palm Beach, Aruba

2014 URSI General Assembly – Beijing, China, 16-23 August 2014

Metamaterials 2014: Eight International Congress on Advances Electromagnetic Materials in Microwaves and Optics, 25-28 August 2014, Copenhagen, Denmark

EMC Europe 2014, 1-4 September 2014, Gothenburg, Sweden

ISAP 2014: International Symposium on Antennas and Propagation, 2-5 December 2014, Kaohsiung, Taiwan

URSI Mid-Atlantic Meeting, 18-25 May 2015, Gran Canaria, Spain

URSI Asia-Pacific Meeting, 2016, South Korea

URSI GASS 2017, TBD

## **9. New Business**

Election of USNC-URSI Commission F Secretary for the 2015-2017 Triennium

- Chandra’s term as USNC-URSI Commission F Chair will end on 31 December 2014, and Mike Newkirk (current Vice-Chair) will succeed him as Chair for the next Triennium. Kamal Sarabandi (current Secretary) will then become Vice-Chair, making it necessary to elect a new Secretary to replace him.
- No nominations were given at the meeting; therefore, an election will be held by email vote. Details will be sent to members by email.

Nominations for International URSI positions for the 2015-2017 Triennium

- Roger Lang, the current URSI Commission F Chair, discussed the need for our Commission to identify nominees for the URSI Commission F Vice-Chair position. Nominations are due by 1 March 2013; voting will occur at the August URSI-GASS. Names should be submitted to Chandra and Mike prior to that date in order to prepare the submissions. More information will be coming via email
- Roger also announced that a new URSI position has been created: the Early Career Representative. These positions are intended for members who are age 36 or lower, in order to get younger people involved in the international URSI organization. Nominations are also due on 1 March 2013; voting will occur at the August URSI-GASS.

## **10. Old Business**

None

## **11. USNC-URSI Action Items**

- Commission F Special Session titles and co-organizers (two required for each) for the 2015 IEEE-APS/USNC-URSI National Radio Science Meeting are needed as soon as possible. Please email information to Chandra and Mike.
- We need to decide on which members of our Commissions will receive travel support to attend the URSI GASS in Beijing in August 2014. We will have about \$90 K to support 90 attendees at \$1000 each. Commission Chairs will be asked to collect names of members who plan to attend after the submission deadline Feb. 15.
- Encourage members to attend the Hans Liebe special lecture event during lunch on Friday.
- Remind members to attend the Plenary Session on Thursday morning.
- Remember that there is no NRSM in 2015. Commission members should be encouraged to attend the NARSM in Vancouver, July 19-25, 2015.
- Remind members that the submission deadline for the 2014 joint symposium (RSM/AP-S Symposium) is 15 January 2014.
- Reminder to encourage students to submit student papers for the 2016 NRSM. We need more applicants.

### Specific Questions from USNC-URSI:

1. How do our members feel about archiving their abstracts on Xplore – what are the reasons for not doing it? About 50% chose to archive their abstracts on 2013.
  - Members said they simply forgot and that since this is relatively new for USNC-URSI, they were not used to doing this.
  - it was suggested that if the copyright form is available for submission along with abstracts, that would be easier and likely to generate more participation
2. What are your suggestions for the next Secretary/Chair –Elect of USNC-URSI (to replace David Jackson who becomes Chair in 2015).
  - None were given at the time
3. Will your Commission participate in the 2016 IEEE AP-S/USNC-URSI Meeting to be held in Puerto Rico June 25 – July 3, 2016?
  - Yes. Furthermore, Commission F has already voted to participate in all future IEEE AP-S/USNC-URSI meetings
4. Does your Commission have suggestions for Plenary Session topics that your Commission can lead along with another Commission? Topics should be timely and with potential for broad appeal among many URSI Commissions. Note: This does not apply to Commissions (A, D, C, F, G, H), since they were recently involved with organizing plenary sessions.
  - Does not apply to Commission F since we co-organized the last Plenary Session

5. Suggestions for candidates to replace Danilo Erricolo as chair of the Student Paper Contest / Student Travel Awards.
  - None were given at the time
6. The proposed dates for the 2016 NRSM in Boulder, CO are Jan. 6-9, 2016 (Wednesday-Saturday). Any comments on this? (Note: Saturday Jan. 9 will only be used as a conference day if the number of submitted papers requires it.)
  - None were given at the time

**12. Adjourn**

The meeting was adjourned at 6:00 pm

## Attendance List

### Commission F Members

V. Chandrasekar  
Al Gasiewski  
Jonathan Gehman  
Tracy Haack  
David Hill  
Reginald Hill  
Katherine Horgan  
Vladimir Irisov  
Joel Johnson  
Roger Lang  
Robert Marshall  
Mahta Moghaddam  
Michael Newkirk  
Steven Reising  
Dean Smith  
Fred Solheim  
Ross Stone  
Richard Strach  
Alexander Voronovich  
Ed Walsh  
Valery Zavorotny

### Guests

Erin Hackett  
Sidharth Misra  
Frank Ryan  
Nghia Tran  
Caglar Yardim