

January 7, 2010
URSI Commission A Business
Meeting

2010 URSI USNC Meeting
Boulder, CO

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Officers of Commission A

- ▶ Chair : Ozlem Kilic, CUA (2008-2011)
- ▶ Vice Chair: Chris Holloway, NIST
- ▶ Secretary: Mike Janezic, NIST

Agenda

- ▶ Welcome and Guests: ***Attendance List*** & Officers
- ▶ Highlights of the June 2009 Meeting (Charleston)
- ▶ Technical Activities 2010
- ▶ Report and AI of the USNC Business Meeting
- ▶ Membership, new nominations
- ▶ Meetings: Upcoming & Topics
- ▶ Old Business
- ▶ New Business
- ▶ Adjourn

June 2009 – URSI/USNC Commission A, Charleston, SC - Highlights

- ▶ 26 URSI A papers (7.5%)
- ▶ **URSI A Sessions (Total 7):**
 - Session 422: "Signal Analysis and Enhanced Algorithms for EM Metrology" (6 URSI-A papers)
 - Session 526: "Material Characterization" (6 URSI-A papers)
 - Session IF213: "Antenna Performance Analysis and Optimization " (10 URSI-A papers)

Joint APS/URSI-A Sessions

- Session 110: "Antennas for 60 GHz applications" (1 URSI-A paper and 10 APS papers)
- Session 205: "Compact Antennas for Wireless Communications" (1 URSI-A paper and 8 APS papers)
- Session 326: "Applications of Dielectric Resonator and Lens Antennas"(1 URSI-A paper and 7 APS papers)

Joint APS/URSI-A/URSI-B/URSI-K Session

- Session 309: "Biomedical Applications and EM Exposure"(1 URSI-A paper, 1 URSI-B paper, 2 URSI-K papers and 5 APS papers)

June 2009 – URSI/USNC Commission A, Charleston, SC - Highlights

- ▶ Two people were approved for membership:
 - David Wikner, US Army Research Laboratory, Adelphi, MD approved as Full Member
 - Brandon Good, Naval Surface Warfare Center, Carderock, MD approved as Associate Member
- ▶ Approved participation of Commission A in the AP-S/URSI meetings until 2012.

2010 USNC URSI

Commission A Technical Activities

- ▶ 23 papers were submitted to Commission A
- ▶ Total # papers submitted: 349
- ▶ Sessions:
 - A1 Measurement and Calibration Techniques for Remote Sensing Applications (4) (Joint A/F) Special Session: Kilic, Gasiewski
 - A2 Metrology Efforts at NIST (10) Special Session: Holloway, Baker-Jarvis
 - A3 Antenna Measurements (4)
 - A4 Specialized Measurement Techniques for Antennas and Materials (5)

USNC Business Meeting Report

- ▶ Plan to continue the 3 day format instead of 4 day
- ▶ Student paper competition to be named after Ernest K. Smith
- ▶ Next Boulder meeting, Jan 5-7, 2011

USNC Business Meeting

Report – Student Paper Contest

USNC URSI Student Paper
Competition Summary
Total Papers by
Commission:

	2004	2005	2006	2007	2008	2009	2010	Totals
A	2	1	0	0	1	1	0	5
B	4	8	7	11.5	6	7	4	47.5
C	0	0	1	2.5	0	1	3	7.5
D	1	1	0	0	0	0	0	2
E	0	0	0	0	0	0	0	0
F	0	3	2	2	0	0	3	10
G	2	1.5	1.5	1.5	0	2	0.5	9
H	1	0.5	3.5	1.5	0	2	0.5	9
J	0	0	2	2	1	1	1	7
K	0	0	0	0	0	0	1	0
TOTAL	10	15	17	21	8	14	13	98

USNC Business Meeting Action Items

(E-mail to kilic@cua.edu by 8:00 pm tonight)

- ▶ Does your commission have any feedback regarding the new web site for NRSM paper submission and session formation?
- ▶ Does your commission have any suggestions for USNC nominations for 2011 URSI GA Awards, including Van der Pol Gold Medal, Dellinger Gold Medal, Appleton Prize, Booker Gold Medal and Koga Gold Medal?
- ▶ Does your Commission have any suggestions for fund raising for USNC, focusing on proposals to government agencies?
- ▶ Does your Commission have any input from students? (Please be reminded that they may be nominated as Associate Members if they have presented URSI papers at past meetings, have publications and are U.S. citizens or permanent residents.)
- ▶ Can your Commission help us identify universities or other institutions who are active in Radio Science but do not participate in the USNC-URSI National Radio Science Meeting?

Action Items Continued

► The following conferences are sponsored by URSI:

- Asia-Pacific Radio Science Conference: September 22-26, 2010 in Toyama, Japan. Abstract Deadline: March 31, 2010.
- 9th Int'l Symposium on Antennas, Propagation and EM Theory: Nov. 29-Dec. 2, 2010 in Guangzhou, China. Paper Deadline: August 31, 2010.
- ICEAA 2010: Int'l Conference on Electromagnetics in Advanced Applications: September 20-24, 2010 in Sydney, Australia. Abstract Deadline: February 26, 2010.

Membership

- ▶ Seeking for new members, please consider nominating recent graduates, Ph.D. and M.S. students
- ▶ Requirements:
 - Technical Competence
 - Interest in URSI
 - Guidelines for Assoc:
 - ▶ 1-2 Single Author papers, 3-4 overall
 - ▶ 2 URSI presentations (at least 1 from A)
 - Guidelines for Full:
 - ▶ 3-4 Single Author papers, 5-6 overall
 - ▶ 3 URSI presentations (at least 2 from A)

Nomination (Full Member) – William O’Keefe Coburn

► **Education:**

- Virginia Polytechnic Institute, BS, 1984
- George Washington University, MS, 1991
- George Washington University, DSc, 2005

► **Electronics Engineer: US Army Research Laboratory, 1981 – present**

Journal Publications

- ▶ **Electromagnetic field measurements near a railgun**
Coburn, W.O.; Le, C.; DeTroye, D.J.; Blair, G.E.; Williams, W.; [Magnetics, IEEE Transactions on](#), Volume 31, [Issue 1](#), Part 1, Jan 1995 Page(s):698 – 703
- ▶ **Static and quasi-static models for the magnetic field of a railgun**
Coburn, W.O.; Williams, W.; [Magnetics, IEEE Transactions on](#), Volume 31, [Issue 1](#), Part 1, Jan 1995 Page(s):692 - 697
- ▶ **A theoretical and experimental study of the electromagnetic environment surrounding a magnetic induction launcher**, Berning, P.R.; Hummer, C.R.; Le, C.D.; Coburn, W.O.; [Magnetics, IEEE Transactions on](#), Volume 33, [Issue 1](#), Part 1, Jan. 1997 Page(s):368 – 372
- ▶ **A solution for the three dimensional rail gun current distribution and electromagnetic fields of a rail launcher**, Kohlberg, I.; Coburn, W.O.; [Magnetics, IEEE Transactions on](#), Volume 31, [Issue 1](#), Part 1, Jan 1995 Page(s):628 - 633

URSI Publications

► 2010 USNC URSI:

- VERTICAL TRANSITION OF MICROSTRIP LINE VIA CAPACITIVE COUPLING, Vincent J. Caruso, Ozlem Kilic, Steven J. Weiss, William O. Coburn
- A NUMERICAL STUDY OF TM WAVES ON AN ISOLATED WIRE, William O. Coburn, Steven Weiss

► URSI-APS 2009-Charleston

- MODEL VALIDATION FOR A LOOP YAGI ARRAY, Amid Bamba, William Coburn and Steven Weiss

► URSI-APS 2008-San Diego

- MODEL RESULTS FOR TRI-BAND DIPOLE ARRAYS OVER LOSSY GROUND, William Coburn, Chris Fazi and Steven Weiss

Over 10 conference papers in numerous conferences, e.g. IEEE AP-S, EUCAP, EMC

Future Meetings

IEEE AP-S/URSI

- 2010 Toronto 8-17 July (not a NARSM)
- 2011 Spokane 3-8 July
- 2012 Chicago 8-14 July
- 2013 Orlando 7-13 July (Hilton at Disney World)
- 2014 Memphis 6-12 July (Miami?)
- 2015 Winnipeg 12-18 July (also a NARSM)
- 2016 Detroit?
- 2017 Vancouver?

- 2011 USNC URSI, Boulder , 5-7 January
- 2011 URSI GA 13-20 August, Istanbul, Turkey

End of the line

- ▶ Old Business
- ▶ New Business
- ▶ Adjourn (Next Meeting – 8-17 July, Toronto)