

NATIONAL RADIO SCIENCE MEETING

January 6–9, 2010 • University of Colorado at Boulder

Program Information

The meeting will begin on Wednesday, January 6, 2010, with registration beginning at 07:30 and presentations at 08:20. It will end on Saturday, January 9. To view or print the complete USNC-URSI 2010 NRSM program, please log on to our meeting website at www.nrsmboulder.org. For administrative or logistical information about the meeting, please contact Christina Patarino, CU Conference Services, 454 UCB, University of Colorado, Boulder, CO 80309-0454, 303-492-5153.

Scope of Meeting

The following Commissions of USNC-URSI will participate in the meeting (to learn more about USNC-URSI visit www.USNC-URSI.org):

Commission A: Electromagnetic Metrology	Commission F: Wave Propagation and Remote Sensing
Commission B: Fields and Waves	Commission G: Ionospheric Radio and Propagation
Commission C: Signals and Systems	Commission H: Waves in Plasmas
Commission D: Electronics and Photonics	Commission J: Radio Astronomy
Commission E: Electromagnetic Environment and Interference	Commission K: Electromagnetics in Biology and Medicine

Steering Committee

Yahya Rahmat-Samii, University of California at Los Angeles; Chair, USNC-URSI
Steven C. Reising, Colorado State University; Secretary, USNC-URSI
Christina Patarino, CU Conference Services

Technical Program Committee

Yahya Rahmat-Samii, Chair, USNC-URSI <rahmat@ee.ucla.edu>
Steven C. Reising, Secretary, USNC-URSI <steven.reising@colostate.edu>
Piergiorgio L.E. Uslenghi, Past Chair, USNC-URSI <uslenghi@uic.edu>
Gary S. Brown, Accounts Manager, USNC-URSI <randem@vt.edu>
Commission A: Ozlem Kilic <kilic@cua.edu>
Commission B: Nader Engheta <engheta@ee.upenn.edu>
Commission C: Dev Palmer <dev.palmer@us.army.mil>
Commission D: John Papapolymou <papapol@ece.gatech.edu>
Commission E: Danilo Erricolo <erricolo@ece.uic.edu>
Commission F: Albin J. Gasiewski <al.gasiewski@colorado.edu>
Commission G: John D. Sahr <jdsahr@u.washington.edu>
Commission H: William E. Amatucci <bill.amatucci@nrl.navy.mil>
Commission J: James M. Cordes <cordes@astro.cornell.edu>
Commission K: Susan C. Hagness <hagness@engr.wisc.edu>

Schedule of Commission Business Meetings

Commission A: Thursday, January 7, 17:00	Commission F: Wednesday, January 6, 17:00
Commission B: Thursday, January 7, 18:00	Commission G: Wednesday, January 6, 18:00
Commission C: Friday, January 8, 17:00	Commission H: Friday, January 8, 17:00
Commission D: Wednesday, January 6, 17:00	Commission J: Thursday, January 7, 18:00
Commission E: Thursday, January 7, 17:00	Commission K: Wednesday, January 6, 18:00

Special Meetings

USNC-URSI Committee, Tuesday, January 5, 19:00-23:00, Millennium Hotel.
Plenary Session and Student Paper Competition, Thursday, January 7, 08:30-12:00, Mathematics Auditorium.
USNC/URSI Executive Council, Saturday, January 9, 06:30-08:00, Millennium Hotel.
Persons wishing to organize special meetings should contact Christina Patarino, CU Conference Services, phone 303-492-5153, christina.patarino@colorado.edu

Location of Sessions

All scientific sessions will be held in the Engineering Center. The Plenary Session will be held in the Mathematics Auditorium.

Fees

The registration fee for all participants is \$350 if payment is received by December 11, 2009. After that date, the registration fee will be \$400. The student and retiree fee is \$150; after December 11, the fee will be \$200. **Registration fees will be required from all participants including URSI officials, session chairs, and authors.** The fee includes the reception, attendance at all sessions, refreshment breaks, and the meeting CD. Extra CDs will be available at \$20 per copy.

Pre-registration

All attendees are encouraged to pre-register for the conference. The registration fee will be \$350 if payment is received by December 11, 2009. The registration fee after December 11 will be \$400. Students and retirees may register for a reduced fee of \$150; after December 11, the reduced fee will be \$200. Payment may be made by check, Visa, MasterCard, Diners Club, American Express, or Discover. To pre-register, you may use the online registration form available through the USNC-URSI 2010 NRSM website at www.nrsmboulder.org. To register after December 11, use the online form or, if you register after December 11 and are paying by credit card, complete the registration form including credit card information and fax it to us at 303-492-5959. If you register after December 11 and want to pay by check, please fax your registration form and bring the check with you. **Early registration must be received by December 11, 2009. Late registration must be received by December 28, 2009. After that date, registration will only be accepted on site.** Please note that the University of Colorado does not accept purchase orders. Final payment must be made at the time of on-site registration, if not before. If we have no record of payment at registration, we will require payment at that time. We cannot bill for registration fees.

Refunds

There will be no refunds after the cut-off date of December 11, 2009. Cancellation requests must be faxed to 303-492-5959. Refunds granted prior to December 11 will be assessed a \$100 processing fee. Students and retirees will receive a full refund. Due to costs incurred by USNC-URSI prior to the conference, unforeseen events prohibiting travel will not be sufficient cause for a refund.

Onsite Registration

Pre-meeting registration will take place at the Best Western Boulder Inn on Tuesday, January 5, from 17:00 to 21:00. The main registration for participants will be in the Engineering Center main lobby from 07:30 to 09:30 on Wednesday, January 6, and will continue during the remainder of the meeting in the Engineering Building (ECCR), Room 133.

Meeting Office

Meeting headquarters will be in ECCR Room 133 in the Engineering Center from noon, Wednesday, January 6, through the conclusion of the meeting.

Telephone and Mail

Telephone messages can be arranged by calling 303-492-5151. Be sure to have callers mention the National Radio Science Meeting. Messages will be posted in the Engineering Center Lobby. Mail should be addressed to:

(Name of participant), National Radio Science Meeting, CU Conference Services,
University of Colorado, Boulder, Colorado 80309-0454

From noon on Wednesday, January 6, through the conclusion of the meeting, messages will also be taken at meeting headquarters, ECCR Room 133. The phone number will be 303-492-7220.

Audio/Visual Equipment

For this program, each room will contain the following audio/visual equipment for your use: an LCD projector (for PowerPoint or PDF format presentations) and an overhead projector. All materials should be prepared with clarity and visibility in mind. Oversized, bold lettering and heavy lines are recommended. Speakers should meet session chairs 30 minutes before the scheduled start of the session to load their presentations on PC laptops in the presentation rooms. **Use of personal laptops is not allowed.**

Transportation to Boulder

All major airlines have flights into Denver International Airport (DIA). A variety of surface transportation is available from DIA to Boulder. The Regional Transportation District SkyRide (RTD city bus route "AB") is the least expensive and departs from Level 5 of DIA on an approximate hourly basis and travels to Boulder via Denver and U.S. 36. Travel time is approximately 90 minutes. The cost is \$12 each way. Tickets may be purchased at the RTD sales counter, located on Level 5 or with exact fare on the bus. A \$22 round-trip ticket may be purchased at the sales counter only or at participating King Soopers and Safeway stores. Once in Boulder, you exit at the Boulder terminal and take a taxi or city bus to your hotel. The SuperShuttle (303-227-0000) departs on an hourly basis from Level 5 of DIA and proceeds directly to Boulder. Travel time is 70 minutes. All riders must check in at the SuperShuttle counter prior to catching the shuttle. The SuperShuttle desk is located near door 510 at DIA. The cost is \$27-\$33 one way or \$50-\$62 round trip, depending on pickup and drop-off

locations, and it takes you directly to most local hotels. Rental cars are available at the airport. We do suggest advance reservations. Boulder is located 26 miles northwest of Denver via U.S. 36. If you decide to take a taxi from the airport, be sure to agree upon the fare with the driver prior to departure from the airport. The fare to Boulder is typically \$75–\$85.

Parking

Parking permits can be purchased for \$10.50 (a single charge for the duration of the conference) at the conference's registration desk or when registering by mail or website. This permit is only valid for Lot 436, located east of the Engineering Center on the corner of Colorado and Regent Drive. You may park in the garage or in any open spaces in the lot with the exception of metered or numbered spaces. Vehicles that park in metered or numbered spaces will be ticketed.

Accommodations

Participants must make their own housing arrangements. Blocks of rooms have been set aside at the hotels listed below, and special group rates have been arranged through December 15, 2009.* Rates may increase after December 15. Be sure to mention the name of the National Radio Science Meeting (URSI) in all communication with the hotels. Please make reservations as soon as possible.

Best Western Boulder Inn
\$69.00 single (includes continental breakfast)
770 28th Street, (303) 449-3800 or (800) 233-8469

The Boulder Outlook Hotel & Suites
\$74.00–\$84.00 single or double (includes continental breakfast)
800 28th Street, (303) 443-3322 or (800) 542-0304

Rodeway Inn & Suites (formally Broker Inn)
\$69.00 single or double (includes hot/full breakfast)
555 30th Street, (303) 444-3330 or (800) 338-5407

Millennium Harvest House Hotel
\$88.00 single or double
1345 28th Street, (303) 443-3850 or (800) 545-6285

* Rates are subject to change without notice by the hotel, and a 10.25% tax. The University of Colorado assumes no obligation regarding rates. Taxes are subject to change.

Meals

A list of local restaurants for lunch will be available at registration. Box lunches will be available to **pre-purchase with registration** for Wednesday, Thursday, and Friday.

Reception

A reception will be held in the Engineering Center Lobby on Wednesday, January 6, from 18:30 to 21:00. Cost of the reception is included in the registration fee.

Weather

Boulder's weather in January is notorious for its unpredictability and can range from snow and freezing temperatures to mild, balmy weather with temperatures near 60°F (20°C). Normally, however, the weather is sunny and rather cool (40°F or 5°C) during the month, with little snow. Participants should bring appropriate clothing.

Recreation

Participants and their families may use the university's Recreation Center, which includes handball and squash courts, tennis courts, swimming and diving pools, an indoor ice rink, exercise rooms, gymnasiums, and saunas for a nominal fee. Further information will be available at the meeting registration desk.

Refreshments

Refreshments will be available from 10:00 to 10:20 during the mornings and from 15:00 to 15:20 during the afternoons in the Engineering Center main lobby.

Further Information

For further information contact CU Conference Services, University of Colorado, 454 UCB, Boulder, CO 80309-0454. Or call 303-492-5153, fax: 303-492-5959, e-mail christina.patarino@colorado.edu, or access the USNC-URSI 2010 NRSM website at www.nrsmboulder.org

Colorado

University of Colorado at Boulder

National Radio Science Meeting
University of Colorado at Boulder
454 UCB
Boulder, CO 80309-0454

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REGISTRATION FORM

National Radio Science Meeting • January 6–9, 2010
University of Colorado at Boulder

Name: _____

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Country: _____ Telephone: _____

Fax: _____ E-Mail: _____

Enclosed is \$350 registration fee (before December 11). Enclosed is \$400 registration fee (after December 11).

Enclosed is \$150 registration fee for *students/retirees* (before December 11).* Enclosed is \$200 registration fee for *students/retirees* (after December 11).*

*If student, enter name of institution where enrolled: _____

Enclosed is \$10.50 to purchase a parking permit (For Lot 436 only) Enclosed is \$20 for an extra CD

Enclosed is \$12 for a box lunch on Wednesday, January 6. Enclosed is \$12 for a box lunch on Thursday, January 7.

Enclosed is \$12 for a box lunch on Friday, January 8. Please check if you prefer a vegetarian box lunch.

\$ _____ **Total Enclosed**

Due to Colorado tax law the following information is required:

Are your fees being paid by a tax exempt institution? Yes No

If yes, please provide your institution Tax ID#, or if unavailable provide the telephone number or e-mail address of a contact that can provide the Tax ID#. _____

Please indicate where you will be staying while attending the conference: _____

Please charge fee to my credit card: Visa MasterCard Diners Club American Express Discover

Card Number _____ Exp. Date _____

Print name as it appears on card: _____

Signature: _____

REGISTER ONLINE at www.nrsmboulder.org

or send this form with your check **MADE PAYABLE TO** the University of Colorado:

University of Colorado at Boulder, Housing/Finance, Hallett 89, 154 UCB, Boulder, Colorado 80309-0154.

Telephone 303-492-5151, Fax 303-492-5959

Payment must be made prior to, or at the time of registration. Please note the University of Colorado cannot accept purchase orders. If paying by check after December 11, please fax form and bring check to on-site registration.