



NATIONAL RADIO SCIENCE MEETING

◆ January 9-12, 2002 ◆ University of Colorado at Boulder
◆ <http://cires.colorado.edu/ursi>

This open scientific meeting is sponsored by the U.S. National Committee of the International Union of Radio Science (URSI). It is held in cooperation with the following IEEE organizations: Antennas and Propagation Society and its Wave Propagation Standards Committee, Circuits and Systems Society, Communications Society, Electromagnetic Compatibility Society, Geoscience and Remote Sensing Society, Information Theory Group, Instrumentation and Measurement Society, Microwave Theory and Techniques Society, and the Nuclear Science Society. Papers on any topic in the interest area of a commission are welcome. Contact the commission chairperson or visit the web site for further information.

COMMISSION A, Electromagnetic Metrology

Samir El-Ghazaly; (480) 965-5322; e-mail: sme@asu.edu

TOPICS

Microwave to submillimeter measurements/standards
Quantum metrology and fundamental concepts
Time and frequency
Time domain metrology
EMC and EM pollution
Noise
Materials
Bioeffects and medical applications
Antenna
EM-field metrology
Impulse radar
Planar structures and microstrip circuits
Interconnect and packaging

COMMISSION B, Fields and Waves

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TOPICS

Advanced materials for EM applications
Antennas
Arrays
Complex media effects
Education
Guided waves
High frequency techniques
Interaction and coupling
Inverse scattering
Microstrip devices and antennas
Numerical methods (differential and integral equations, and others)
Rough surfaces and random media
Scattering
Theoretical electromagnetics
Transient fields, effects, and systems
Ultra-wideband electromagnetics
Wireless communications

COMMISSION C, Signals and Systems

Alfred O. Hero; (734) 763-0564; e-mail: hero@eecs.umich.edu

TOPICS

Beam forming and matched field processing
Spectrum estimation
Tomographic and inverse-theory methods
Environmental problems in cellular communications systems
Low total energy communications and signal processing methods
System identification
Wavelets
Applications

COMMISSION D, Electronics and Photonics

Alan Mickelson; (303) 492-7539; e-mail: mickel@schof.colorado.edu

TOPICS

Electronic devices and applications
Photonic devices and applications
Physics, materials, CAD, technology and reliability of electronic and photonic devices, with particular reference to radio science and telecommunications.

COMMISSION E, Electromagnetic Noise and Interference

Jon Schoenberg; (719) 333-7333; e-mail: schoenberg@ieee.org

TOPICS

High power electromagnetics
Effects of transients on electronic systems
Spectrum management and utilization
Communication in the presence of noise

COMMISSION F, Wave Propagation and Remote Sensing

Ed Westwater; (303) 497-6527; e-mail: Ed.R.westwater@noaa.gov

TOPICS

Point-to-point propagation effects:

<i>Measurements</i>	<i>Mobile/fixed</i>
<i>Modeling</i>	<i>Horizontal/slant paths</i>
<i>Mitigation</i>	<i>Interaction with the atmosphere</i>
<i>Over land or water paths</i>	<i>Atmospheric constituents</i>
<i>Indoors/outdoors</i>	<i>Natural/man-made structures</i>

Remote sensing of the Earth by radio waves:

<i>Theory</i>	<i>Atmosphere</i>
<i>Field campaigns</i>	<i>Atmospheric constituents</i>
<i>Interior</i>	<i>Natural features or inhabitants</i>
<i>Surface</i>	

COMMISSION G, Ionospheric Radio and Propagation

John C. Foster; (617) 981-5621; e-mail: jcf@haystack.mit.edu

TOPICS

Ionospheric morphology
Ionospheric modeling and data assimilation
Transitionospheric radio propagation/systems effects
Radar and radio techniques for ionospheric diagnostics
Space weather - radio effects

COMMISSION H, Waves in Plasma

Min-Chang Lee; (617) 253-5956; e-mail: mclec@psfc.mit.edu

TOPICS

Plasma instabilities
Generation and propagation of waves in plasmas
Interaction between these waves, and wave-particle interactions
Plasma turbulence processes and chaos
Spacecraft-plasma interactions
Application of the results, particularly in the areas of solar/planetary plasma interactions, and the increased exploitation of space as a research laboratory.

The abstract deadline is
September 7, 2001

This is a FIRM DEADLINE. No abstracts
will be accepted after this date. The
Student Paper Competition deadline is
August 17, 2001

COMMISSION J, Radio Astronomy

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TOPICS

Radio emissions from celestial objects
Radar reflections from planetary objects
Radio wave propagation
Antennas and antenna arrays
Radio astronomy instrumentation
Signal analysis including image processing
Spectrum protection and interference mitigation
Millimeter wavelength array design
Design of arrays with large numbers of elements
VLBI instrumentation, techniques and science

COMMISSION K, Electromagnetics in Biology and Medicine

Frank S. Barnes; (303) 492-8225; e-mail: frank.barnes@colorado.edu

TOPICS

Biological effects
Biomedical applications
Dosimetry
Exposure assessment
Applications of RF to medicine

STUDENT PRIZE PAPER COMPETITION

Prizes will be awarded to three graduate student papers. Awards will be made for First Prize in the amount of \$1000, Second Prize at \$750, and Third Prize at \$500. The deadline for submission of papers for consideration is **August 17, 2001**. Papers should be submitted to Dr. Albin Gasiewski, NOAA/ETL, MS R/E/ET1, 325 Broadway, Boulder, CO 80303-3328, USA. Please see the web site for more complete information. Student papers and awards will be presented at the Plenary Session on Thursday morning, January 10, 2002.

STUDENT PAPER SUBMISSION DEADLINE: Aug. 17, 2001

SESSIONS

All sessions are listed on the web site at <http://cires.colorado.edu/ursi>.

ABSTRACT SUBMISSION

The organizers of this meeting require the use of electronic submission. Details and instructions may be found on the web site. If you have any questions, please direct them to ursi@cires.colorado.edu. Abstracts must be a minimum of 250 words. You will not be able to submit an abstract that does not meet the minimum length requirements. See the web site for complete submission instructions. All abstract submission information must be entered on-line by September 7, 2001. Please find the form on our web site at <http://cires.colorado.edu/ursi>.

Questions should be directed to:

Dr. Rod Frehlich (303-492-6776) or Dr. Scott Palo (303-492-4289); FAX : (303) 492-1149, E-MAIL: ursi@cires.colorado.edu

WEB SITE: <http://cires.colorado.edu/ursi>
