



2004 IEEE International Ultrasonics, Ferroelectrics and Frequency Control 50th Anniversary Conference



Short Courses & Tutorials on 23 August, Conference 24-27 August 2004
Palais des Congrès, Montréal, Canada

Sponsored by the IEEE Ultrasonics, Ferroelectrics & Frequency Control Society

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Call for Papers

Abstract Deadline February 24, 2004

The joint conference of the three groups which form the IEEE Ultrasonics, Ferroelectrics and Frequency Control Society marks the 50th anniversary of the Society. This conference will offer an unprecedented opportunity for technical interchange between members of the three groups in the exciting and hospitable city of Montréal.

Papers are solicited describing original technical work in the fields of ultrasonics, ferroelectrics and frequency control. In addition, special consideration will be given to presentations containing subject matter relevant to two or more of the Ultrasonics, Ferroelectrics and Frequency Control groups, including surveys and reviews. The conference organizers solicit historical reviews of the evolution of relevant technology. Both poster and oral presentation formats will be used at the Conference. Prospective authors should note that poster sessions provide an alternative format which allows for greater flexibility and expanded audience interaction as the oral presentations are 15 minutes (30 minutes for invited oral talks) in duration.

Each abstract will receive careful review and evaluation by the Symposium Technical Program Committees. Evaluation criteria will include overall interest to the technical community, originality of the work, and contribution to the state-of-the-art. Papers are solicited from the subject classifications shown at the end of this announcement.

Abstract submission: Check the conference web site for details on electronic abstract submission; the abstracts must be submitted according to the specific information which is posted on the conference web page. Submissions not compliant with these requirements will not be considered.

Conference Location: The Joint Conference will be held at the Palais des Congrès, Montréal's convention center centrally located in downtown Montréal with nearby hotels, cafes, restaurants and shops. See www.tourism-montreal.org for general information about Montréal and www.congresmtl.com for information about the Palais des Congrès.

Hotels: Reservations at nearby hotels can be made through the Montréal Housing Bureau; the cutoff date for reservations is July 18, 2004. Check the conference web site for links to the Bureau.

Conference Web Site: Information about the Conference is available on the Conference Web site; information will be updated and added as it becomes available. Please see www.ieee.org/UFFC-2004

Travel support: Limited funds are available to support students and foreign authors. Awards will be made on a competitive basis. Further information will be posted on the conference web site.

Student Paper Competition: Students submitting abstracts for presentation are invited to participate in a student paper competition. To participate the student has to be the lead author and present the paper. Winners will receive a cash award. Further information will be posted on the conference web site.

Awards: The Awards Chair solicits nominations for a) the Ferroelectrics Achievement Award; b) the Ultrasonics Rayleigh Award; and c) the Frequency Control Cady, Rabi, Sawyer Awards. Please see the individual Ferroelectrics, Ultrasonics and Frequency Control Websites for award criteria.

Ultrasonics

Group 1 Medical Ultrasonics

UMBB Medical Beamforming and Beam Steering
UMBE Biological Effects & Dosimetry
UMBF Blood Flow Measurement
UMCA Contrast Agents
UMEL Elastography
UMIM Medical Imaging
UMSP Medical Signal Processing
UMTC Medical Tissue Characterization
UMTH Therapeutics, Hyperthermia, Ultrasound in Surgery

Group 2 Sensors, NDE & Industrial Applications

UNAM Acoustic Microscopy & Imaging
UNAS Acoustic Sensors
UNDE General NDE Methods
UNMC Material & Defect Characterization

UNPM Wave Propagation
UNSP Signal Processing
UNTD Transducers: NDE and Industrial

Group 3 Physical Acoustics

UPBW Bulk Wave Effects & Devices
UPGP General Physical Acoustics
UPMI Magnetic Interactions
UPOI Optical Interactions
UPUM Ultrasonic Motors & Actuators

Group 4 Surface Acoustic Waves

USAO SAW Acoustoelectric Effects & Devices
USDO SAW Devices & Oscillators
USFT SAW Filters & Transducers
USMP SAW Materials & Propagation
USSA SAW System Applications
USSP SAW Signal Processing
USTD SAW Thin-Films & Devices

Group 5 Transducers & Transducer Materials

UTFA Transducer Modeling (FEA and Analytical)
UTFT Transducer Fabrication Technology
UTMC Transducer Material Characterization and Modeling
UTMM Materials/Technology for Medical Transducers
UTMT Medical Transducers
UTMU Micromachined Ultrasound Transducers
UTPF Piezoelectric and Ferroelectric Transducer Materials

Ferroelectrics

Group 1 (FE1):

Piezoelectrics & Relaxors
Single Crystal Technology
Dielectrics
Pyroelectrics
Lead Free Piezoelectrics

Group 2 (FE2):

Characterization
Degradation and Reliability
Thin films
Fundamentals, Domains, Theory, and Models

Group 3 (FE3):

FeRAM and Devices
Device Integration
Extreme Environment Electronic Components
Optics

Frequency Control

Group 1 (FC1):

A. Fundamental Properties of Materials
B. Theory and Design of Resonators and Filters

Group 2 (FC2)

A. Oscillators - BAW and SAW
B. Oscillators - Microwave to Optical
C. Synthesizers and Other Circuitry
D. Noise Phenomena and Aging

Group 3 (FC3)

A. Atomic Frequency Standards
B. Frequency and Time Coordination
C. Measurements and Specifications
D. Applications of Frequency Control
E. Optical Frequency Standards

Group 4 (FC4)

A. Resonant Chemical Sensors
B. Resonant Physical Sensors
C. BAW, SAW Sensors
D. Transducers

Group 5 (FC5)

Manufacturing Technology