



2010 IEEE International Ultrasonics Symposium

Short Courses & Tutorials



October 11-14, 2010

Town & Country Resort and Convention Center
San Diego, California, U.S.A.

Sponsored by the IEEE Ultrasonics, Ferroelectrics and Frequency Control Society

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CONVENTION &
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Final Call for Papers

Abstract Deadline: May 4, 2010

Abstract Submission and Symposium Website: http://ewh.ieee.org/conf/ius_2010/

We welcome you to San Diego, California's second largest city, for the 2010 International Ultrasonics Symposium. Bordered by Mexico, the Pacific Ocean, the Anza-Borrego Desert and the Laguna Mountains, San Diego offers immense options for business and pleasure. And with the Mexican city of Tijuana just minutes from downtown, San Diego is an international experience with all the comforts of a city leading the nation in biomedical and telecommunication industries.

Papers are solicited for this Symposium describing original work in the field of ultrasonics. Poster and oral presentation formats will be used at the Symposium. Prospective authors should note that poster sessions provide an alternative format that allows for greater flexibility and expanded audience interaction.

The deadline for submission of abstracts is May 4, 2010. The abstracts should be submitted in electronic form according to the specific information posted on the Symposium web page. Additional information can be found at the Symposium website at http://ewh.ieee.org/conf/ius_2010/. Each abstract will receive careful review and evaluation by the Symposium Technical Program Committee. Evaluation criteria will include originality of the work, contribution to the state-of-the-art, and overall interest to the ultrasonics community. Authors are required to concisely divide their abstract into three sections: **I. Motivation/Background; II. Statement of the Contribution/Methods; III. Result/Discussion.** Papers are solicited from the following **subject classifications**:

Group 1: Medical Ultrasonics

MBB Medical Beamforming & Beam Steering
MBE Biological Effects & Dosimetry
MBF Blood Flow Measurement
MCA Contrast Agents
MEL Elastography
MIM Medical Imaging
MPA Medical Photoacoustics
MSD System & Device Design
MSP Medical Signal Processing
MTC Medical Tissue Characterization
MTH Therapeutics, Hyperthermia, and Surgery

Group 2: Sensors, NDE & Industrial Applications

NAF Acoustic Microfluidics
NAI Acoustic Imaging
NAM Acoustic Microscopy
NAS Acoustic Sensors
NDE General NDE Methods
NEH Energy Harvesting
NFM Flow Measurement
NMC Material & Defect Characterization
NSP Signal Processing
NTD Transducers: NDE and Industrial
NWP Wave Propagation

Group 3: Physical Acoustics

PBW Bulk Wave Effects & Devices
PGP General Physical Acoustics
PLP Physical Acoustics Laser Interactions
PMI Magnetic/Electromagnetic Interactions
PNA Nano Acoustics
POI Optical Interactions
PPN Phononic Crystals & Devices
PTF Thin Films
PTM Novel Transduction Mechanisms
PUM Ultrasonic Motors & Actuators

Group 4: Microacoustics – SAW, FBAR, MEMS

ADA Device Applications
ADD Device Design
ADM Device Modeling
AMP Materials & Propagation

Group 5: Transducers & Transducer Materials

TMC Materials Characterization & Fabrication
TMI Medical Imaging Transducers
TMO Modeling (Analytical & Numerical)
TMU Micromachined Ultrasonic Transducers
TFT Thick Film Piezo-Technology
TPF Applications of Piezoelectrics & Ferroelectrics
TTT Medical Therapeutic Transducers

Student Travel Support: Limited funds are available to support IEEE UFFC student member attendees at the 2010 symposium. Awards will be given on a competitive basis. Please see the Symposium website for details.

Student Paper Competition: Students submitting abstracts are invited to participate in a student paper competition. To participate, the student must be the lead author and present his/her paper. Further information will be posted on the Symposium website.

Visa Application: Please visit the Symposium website for updated information regarding invitation letters, and apply in advance if you need a visa to travel to the U.S.A.