



2011 IEEE International Ultrasonics Symposium



(Including Short Courses & Tutorials)

October 18-21, 2011

Change of Venue: Caribe Royale, Orlando, FL, USA

Sponsored by the IEEE Ultrasonics, Ferroelectrics, & Frequency Control Society

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The annual 2011 IEEE International Ultrasonics Symposium will be held at the Caribe Royale, Orlando, FL, USA, from October 18-21, 2011. The Caribe Royale is located 1.5 miles from Disney World and easily accessible from the Orlando International airport (MCO).

Papers are solicited for this conference 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 which allows for greater flexibility and expanded audience interaction.

The deadline for submission of abstracts is **May 2, 2011**. The abstracts should be submitted in electronic form according to the specific information posted on the conference web page. Additional conference information can be found at the Symposium web site: http://ewh.ieee.org/conf/ius_2011/. 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 UFCF student member attendees** at the 2011 symposium. Awards will be given on a competitive basis. Please see the conference 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 conference website.

Visa Application: Please visit the Symposium web site for updated information regarding invitation letters, and apply in advance if you need a visa to travel to U.S.A. The information is expected to be available in February 2011.

Exhibition organized by



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