

2012 IEEE International Ultrasonics Symposium

International Congress Center, Dresden, Germany
October 7 - 10, 2012

 IUS 2012



Final Call for Papers

Abstract deadline: May 04, 2012

Conference website: http://ewh.ieee.org/conf/ius_2012

The Ultrasonics Symposium returns to Germany, now to Dresden from October 07 - 10, 2012. The conference will be held at the International Congress Center, situated at the margin of the Elbe river and close to the historical center of Dresden. The site provides both a great venue for our conference and unparalleled access to all that Dresden has to offer.



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 04, 2012**. 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_2012. 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. Background, Motivation and Objective; II. Statement of Contribution/Methods; III. Results/Discussion**. In these three sections the *authors must clearly and concisely explain the motivation and background, the contribution of the work and methods, and the results and conclusions of the paper*. Papers are solicited from the following **subject classifications**:

Group 1: Medical Ultrasonics

MBB Medical Beamforming and 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 Acoustics 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

PAT Acoustic Tweezers
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 Crystal Devices
PTF Thin Films
PTM Novel Transducer Mechanisms
PUM Ultrasonic Motors & Actuators

Group 4: Microacoustics – SAW, FBAR, MEMS

ADA Device Applications
ADD Device Design
ADM Device Modeling
AMP Materials & Propagation
AMS Microacoustic Sensor Devices & Applications

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 Piezoelectric & Ferroelectrics
TTT Medical Therapeutic Transducers

General Chair

Manfred Weihnacht
IFW Dresden
Dresden, Germany

m.weihnacht@ifw-dresden.de

Technical Program Chair

Mauricio Pereira da Cunha
University of Maine
Orono, ME, USA

mdacunha@maine.edu

Finance Chair

Mark Schafer

Sound Surgical Technologies
Philadelphia, PA, USA

marks@sonictech.com

Short Course/Tutorial Chair

Roman Maev

University of Windsor
Ontario, Canada

maev@uwindsor.ca

Editorial-Chair

Marjorie Passini Yuhas
Industrial Measurement
Systems

Aurora, IL, USA

myuhas@imsync.com

Exhibits/Publicity Chair

Sorah Rhee

Ethicon Endo-Surgery
Cincinnati, OH, USA

sorah.rhee@ieee.org

AudioVisual/Web Chair

Oliver Keitmann-Curdes
Siemens A/S

Nordborg, Danmark

avchair_ius12@olivonnet.de

Local Arrangements Chair

Hagen Schmidt

IFW Dresden

Dresden, Germany

h.schmidt@ifw-dresden.de

As of March, 2012

Student Travel Support: Limited funds are available to support **IEEE UFFC student attendees** at the 2012 symposium. Awards will be made on a competitive basis. Further information will be posted on the conference website.

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 the paper. Further information will be posted on the conference website.

International Participants: Please visit the Symposium website for updated information regarding invitation letters, and apply in advance if you need a visa to travel to Germany.

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AND FREQUENCY CONTROL SOCIETY

