



## Final Call for Papers

**Abstract deadline: May 04, 2012**

**Conference website: [http://ewh.ieee.org/conf/ius\\_2012](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](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

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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

