

UIA 2006 Symposium Schedule

Monday, 13 March 2006

Industrial Application Presentations Chair: Karl Graff

7:55 – 8:00 a.m.	Conference welcome – Foster Stulen, UIA President
8:00 – 8:25 a.m.	A reference vessel for acoustic cavitation: initial characterization of the spatial distribution of cavitation activity derived using an acoustic emission sensor Bajram Zeqiri, Acoustics Team, Quality of Life Division, National Physical Laboratory, Teddington, Middlesex, United Kingdom.
8:30 – 8:55 a.m.	Rock Sampling using the Ultrasonic/Sonic Driller/Corer (USDC) for In-situ Planetary Exploration, Xiaoqi Bao, Yoseph Bar-Cohen, Zensheu Chang, Stewart Sherrit and Mircea Badescu, Jet Propulsion Laboratories.
9:00 – 9:25 a.m.	New Research in Energy Applications of High Power Ultrasonics, Oleg V. Abramov, Oleg Gradov, Institute of General and Inorganic Chemistry of RAS, Moscow.
9:30 – 9:55 a.m.	Ultrasonic Metal Welding of Aluminum Sheet, Susan Ward, Ford Motor Company, Janet Devine, Sonobond Ultrasonics
9:55 – 10:30 a.m.	REFRESHMENT BREAK IN EXHIBIT AREA
10:30 – 10:55 a.m.	Acoustic loss at substantial ultrasonic strain in 6Al-6V-2Sn and sintered 6Al-4V titanium, Dave Wuchinich, Modal Mechanics.
11:00 – 11:25 a.m.	Novel actuator application of new High Drive Piezoceramic Materials, Adam Morris, Piezo Technologies
11:30 – 11:55 a.m.	Ultrasonic application for purification of waste water, O.V. Abramov, V.O. Abramov, O.M. Gradov, G.B. Veksler, Institute of General and Inorganic Chemistry of RAS, Moscow.
12:00 – 1:00 p.m.	LUNCHEON: PRESENTATION OF UIA BEST NEW PRODUCT AWARD
1:00 – 1:25 p.m.	Characterization of industrial high power ultrasound fields using the NPL Cavitation Sensor, Mark Hodnett, Acoustics Team, Quality of Life Division, National Physical Laboratory, Teddington, Middlesex, United Kingdom.
1:30 – 1:55 p.m.	Compact Power Circuit Design for an Ultrasonic Generator, Alan Lipsky, Consultant in High Power Electronics
2:00 – 2:25 p.m.	Use of IR technology in sensing and control of the ultrasonic metal welding process, Karl Graff, Jay Eastman, Tim Frech, Yu- Ping Yang, EWI
2:30 – 3:15 p.m.	REFRESHMENT BREAK IN EXHIBIT AREA
3:15 – 5:00 p.m.	HIFU Industry Council Meeting
5:30 – 7:00 p.m.	WINE AND CHEESE RECEPTION

Tuesday, 14 March 2006

Medical Applications Presentations: HIFU Applications - Chair Ron Manna

8:15 – 8:20 a.m.	Medical Session Welcome – Foster Stulen, UIA President
8:20 – 9:15 a.m.	Invited Paper: A Methodology for Ultrasound Product Development – Applications in HIFU and High Frequency, Claudio Zanelli CEO, Onda Corporation
9:20 – 9:45 a.m.	Measurement and Assessment of a Non-contact Ultrasound Therapeutic System, Mark E. Schafer, Michael Peterson, Ryan Tetzloff, Celleration, Inc.
9:50 – 10:15 a.m.	High Intensity Focused Ultrasound Device for Treatment of Atrial Fibrillation: Design, Characterization, and Application, Igor Sinelnikov, ProRhythm, Inc.
10:15 – 11:00 a.m.	REFRESHMENTS IN EXHIBIT AREA
11:00 – 11:25 a.m.	Surgical and Dental Transducers Suitable for Single Use Applications, George Bromfield, Piezo Innovations
11:30 – 12:00 a.m.	Development of a High Intensity Focused Ultrasound (HIFU) Hydrophone System, Mark E. Schafer, Sonic Tech, Inc.; Jim Gessert and Wayne Moore, Sonora Medical Systems, Inc.,
12:00 – 1:15 p.m.	UIA LUNCHEON: GRADUATE RESEARCH PAPER AWARD

Medical Applications Presentations: Tissue Characterization & Bioeffects - Chair Alan Winder

1:15 – 2:10 p.m.	Invited Paper: Overview of 3D/4D Ultrasound, Thomas R. Nelson Division of Physics & Engineering, Department of Radiology, UCSD
2:15 – 2:40 p.m.	Noninvasive Estimation of Mechanical Properties of Arteries, James. F. Greenleaf, Cristina Pislaru, Xioming Zhang, Wilkins Aquino, Mayo Clinic.
2:45 – 3:10 p.m.	Something New in Spectrum Analysis: Parameter Imaging of Harmonics, Robert Muratore and Ronald H. Silverman, Riverside Research Institute
3:15 – 4:00 p.m.	REFRESHMENTS IN EXHIBIT AREA

Transducer Materials & Innovative Applications - Chair Alan Winder

4:00 – 4:25 p.m.	Materials for High Frequency Ultrasound, Kevin Snook, Wes Hackenberger, Paul Rehrig, Xiaoning Jiang, Tim Ritter, TRS Technologies Inc. and Xuecang Geng, Blatek Inc.
4:30 – 5:00 p.m.	Regulatory Submission Strategies and Outlines for Ultrasonic Surgical Devices: Contact and HIFU Systems, Ronald R. Manna, Misonix Inc.
5:00 p.m.	CONFERENCE CONCLUDES