

# Condensed Program of 2008 IEEE International Ultrasonics Symposium

## Beijing, China, November 2-5, 2008

**Room Names:** Hall 1: Convention Hall No. 1 (2nd Floor)      Hall 5: Convention Hall No. 5 (1st Floor)      Room 307: 307 Conference Room (3rd Floor)  
 Hall 2: Convention Hall No. 2 (2nd Floor)      Room 201: 201 Conference Room (2nd Floor)      Room 308: 308 Conference Room (3rd Floor)  
 Hall 3: Convention Hall No. 3 (1st&2nd Floors)      Room 305: 305 Conference Room (2nd Floor)      Room 311: 311 Conference Room (3rd Floor)

**Color Codes:** Group I: RED: Medical Ultrasound; Group II: ORANGE: Sensor, NDE; Group III: GREEN: Physical Acoust.; Group IV: VIOLET: Microacoustics; Group V: BLACK: Transducers; (1): 1 Invited Talk; (2): 2 Invited; (3): 3 Invited

SATURDAY, Nov. 1		Condensed Program --- 2008 IEEE International Ultrasonics Symposium, Beijing, China, November 2-5, 2008
		Symposium Registration (2nd Floor Foyer), 6:00 p.m. – 9:00 p.m.

SUNDAY, Nov. 2		Short Courses (with Refreshments on 3rd Floor Foyer from 10:00 a.m. - 10:20 a.m.; 3:00 p.m. - 3:20 p.m.; and 8:00 p.m. - 8:20 p.m.)
		Symposium Registration (2nd Floor Foyer), 7:00 a.m. – 7:00 p.m.
<b>Short Courses (8:00 a.m.-12:00 noon):</b> Course 1A: Med. Ultrason. Transducers (311A/B) Course 2A: Ultrason. Imag. Systems (307) Course 3A: Photoacoustic Imag. & Sensing (308) Course 4A: Tissue Motion & Blood Flow (311C)	<b>Short Courses (1:00 p.m.-5:00 p.m.):</b> Course 1B: Ultrason. Elastography (311A/B) Course 2B: Acoust. Microscopy (307) Course 3B: Therapeutic Ultrasound (308) Course 4B: SAW Modeling Techniques (311C)	<b>Short Courses (6:00 p.m.-10:00 p.m.):</b> Course 1C: Ultrason. Contrast Agents (311A/B) Course 2C: CUMTs (307) Course 3C: Time Reversal Acoustics (308) Course 4C: Acoust. Near-Field Imag. (311C)

MONDAY, Nov. 3		Hall 3	Rooms 201A/B/C	Hall 5A	Hall 5B	Hall 5C	Room 307
		Symposium Registration (2nd Floor Foyer), 7:00 a.m. – 6:00 p.m.      Exhibits (2nd Floor Foyer), 8:00 a.m. – 5:00 p.m.					
8:00 a.m. – 10:00 a.m.		<b>Plenary Session (Convention Hall 1 - For All Attendees)</b>					
10:00 a.m. – 10:30 a.m.		Refreshments (Locations: 2nd and 3rd Floor Foyers)					
10:30 a.m. – 12:00 noon	1A. Blood Flow Measurements (1)	2A. Tissue Characterization	3A. Imaging Systems and Methods	4A. Transducer Materials Characterization	5A. Material Properties I (2)	6A. Thin Film & Device Characterization	
12:00 noon – 1:30 p.m.		Lunch (Convention Hall 1 - For All Attendees)					
1:30 p.m. – 3:00 p.m.	1B. High-Frequency and Small Animal Imaging (1)	2B. Bone I	3B. Ultrasonic Motors - Technology Advances	4B. Single Crystals I (2)	5B. NDE Signal Processing	6B. Advances in Materials & Propagation	
3:00 p.m. – 4:30 p.m.		Posters and Refreshments (Locations: 2nd and 3rd Floor Foyers)					
	PS. Student Competition P1A. Photoacoustic Imag. P1B. Medical Beamforming	P1C. Medical Imaging P1D. Medical Signal Proc. P1E. Transducer Modeling	P1F. Piezo. & Ferro. Mat. P1G. Sonar Propa. & Det. P1H. Ultrason. Motor Appl.	P1I. Phononic Crystals II P1J. NDE Signal Proc. P1K. NDE Applications	P1L. BAW Modeling P1M. Microwave Acoust. Devices for Wireless Front Ends		
4:30 p.m. – 6:00 p.m.	1C. Shear Wave and Shear Strain Imaging (1)	2C. Bone 2	3C. Phononic Crystals I - Bandgap & Focusing	4C. Single Crystal II (1)	5C. Bulk Acoustic Wave Sensors (1)	6C. SAW Devices	
6:30 p.m. – 10:00 p.m.		Buffet Dinner Party (Convention Hall 1 - For All Attendees)					

TUESDAY, Nov. 4		Hall 3	Rooms 201A/B/C	Rooms 305A/B/C	Hall 2A	Hall 2B	Hall 2C
		Symposium Registration (2nd Floor Foyer), 7:00 a.m. – 5:30 p.m.      Exhibits (2nd Floor Foyer), 8:00 a.m. – 5:00 p.m.					
8:30 a.m. – 10:00 a.m.	1D. Elasticity Imaging: Applications	2D. Contrast Agents: Targeting & Therapeutics	3D. Medical Signal Processing I	4D. cMUTs	5D. Industrial Measurement	6D. Bulk Wave Resonators - I (1)	
10:00 a.m. – 10:30 a.m.		Refreshments (Locations: 2nd and 3rd Floor Foyers)					
10:30 a.m. – 12:00 noon	1E. Clinical Cancer Imaging (3)	2E. Arrays and Therapeutic Devices	3E. Medical Signal Processing II	4E. cMUT Modeling	5E. Flow Measurements (1)	6E. Ultrasonic Wave Propagation - I	
12:00 noon – 1:30 p.m.		Lunch (On Your Own)					
1:30 p.m. – 3:00 p.m.	1F. 3-D Elasticity Imaging (1)	2F. Ultrason. Mediated Delivery of Therap. Agents	3F. Photoacoustic Imaging	4F. SAW vs BAW (1)	5F. Acoustic Imaging and Microscopy	6F. Ultrasonic Motors & Droplet Processing	
3:00 p.m. – 4:30 p.m.		Posters and Refreshments (Locations: 2nd and 3rd Floor Foyers)					
	P2A. Blood Flow P2B. Improv. Contrast Imag. P2C. Contrast Agents: M./C.	P2D. Bioeffects P2E. High Freq. Tech. P2F. 3D / Cardiac Imag.	P2G. Med. Imag. Transd. P2H. Nonlinear Propag. P2I. Ultrason. Wa. Prop. II	P2J. Ultrason. Mot. Innov. P2K. Acoust. Wave Sen. P2L. Acoust. Imag. Sig. Proc.	P2M. NDE Methods P2N. Thin Film & Device Fab. P2O. SAW Simulation	P2P. Sen. & ID SAW Tags	
4:30 p.m. – 6:00 p.m.	1G. Visco-elasticity	2G. Therapeutic Ultrasound	3G. High Frequency Transducers	4G. Acoustic MEMS Devices (1)	5G. NDE Phased Arrays	6G. Material Properties II - Crystals & Composites	
6:30 p.m. – 10:00 p.m.		Banquet Dinner and Shows (Convention Hall 1 - For All Attendees)					

WEDNESDAY, Nov. 5		Hall 3	Rooms 201 A/B/C	Rooms 305 A/B/C	Hall 2 A	Hall 2 B	Hall 2 C
		Symposium Registration (2nd Floor Foyer), 7:00 a.m. – 1:00 p.m.      Exhibits (2nd Floor Foyer), 8:00 a.m. – 12:00 noon					
8:30 a.m. – 10:00 a.m.	1H. Cardiac Imaging (1)	2H. Cavitation Therapy	3H. Transducer Modeling and Design	4H. Device Modeling	5H. Material and Defect Characterization	6H. Optical & RF Ultrasonic Effects	
10:00 a.m. – 10:30 a.m.		Refreshments (Locations: 2nd and 3rd Floor Foyers)					
10:30 a.m. – 12:00 noon	1I. Cardiovascular Imaging (1)	2I. Therapeutic Monitoring and Guidance	3I. Polymers for Transducers	4I. BAW Materials & Devices	5I. Wave Propagation (1)	6I. Ultrasonic MEMS (1)	
12:00 noon – 1:30 p.m.		Lunch (On Your Own)					
1:30 p.m. – 3:00 p.m.	1J. Cardiovascular Elastography	2J. Beam Forming Algorithms and Strategies	3J. Microbubbles: Theory and Characterization	4J. Multilayer SAW Propagation (1)	5J. Liquid and Gas Sensing	6J. Energy Harvesting & Magnetoelctrics (2)	
3:00 p.m. – 4:30 p.m.		Posters and Refreshments (Locations: 2nd and 3rd Floor Foyers)					
	P3A. Tiss. Charac. - Tech. P3B. Tiss. Charac. - In Vivo P3C. Elastography	P3D. Therapeutic Ultrasound Applications P3E. Therapeutic Ultrasound Technologies P3F. MUT Transducers	P3G. Material Characterisation and Fabrication Tech. P3H. Material Properties III P3I. Bulk Wave Effects & Devices			P3J. BAW & MEMS Mat. & Dev. P3K. Thin-Film & Propag.	
4:30 p.m. – 6:00 p.m.	1K. Vector Velocity Imaging	2K. Adaptive Beam Forming	3K. Contrast Agent Imaging: Methods & Appl.			5K. Acoustic Wave Sensors	6K. Medical Arrays

<b>Sizes of Rooms:</b>	Hall 3 530 m2 (1st & 2nd Floors)	Rooms 201A/B/C 450 m2 (2nd Floor)	Rooms 305A/B/C 450 m2 (3rd Floor)	Hall 2A 366 m2 (2nd Floor)	Hall 2B 366 m2 (2nd Floor)	Hall 2C 366 m2 (2nd Floor)
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<b>Note:</b> Roughly 1 square meter (m2) per person.	<b>Sizes of Rooms:</b>	Hall 5A About 380 m2 (1st Floor)	Hall 5B About 190 m2 (1st Floor)	Hall 5C About 190 m2 (1st Floor)	Room 307 185 m2 (3rd Floor)
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