

Appendix J:

Forms and Documents Used in the 2008 IEEE International Ultrasonics Symposium

Appendix A to L are compiled from the conference web at: http://ewh.ieee.org/conf/ius_2008/
(The web is also in DVD with ISBN: 978-1-4244-2480-1 and IEEE Catalog No. CFP08ULT-DVD)

2008 IEEE International Ultrasonics Symposium Proceedings

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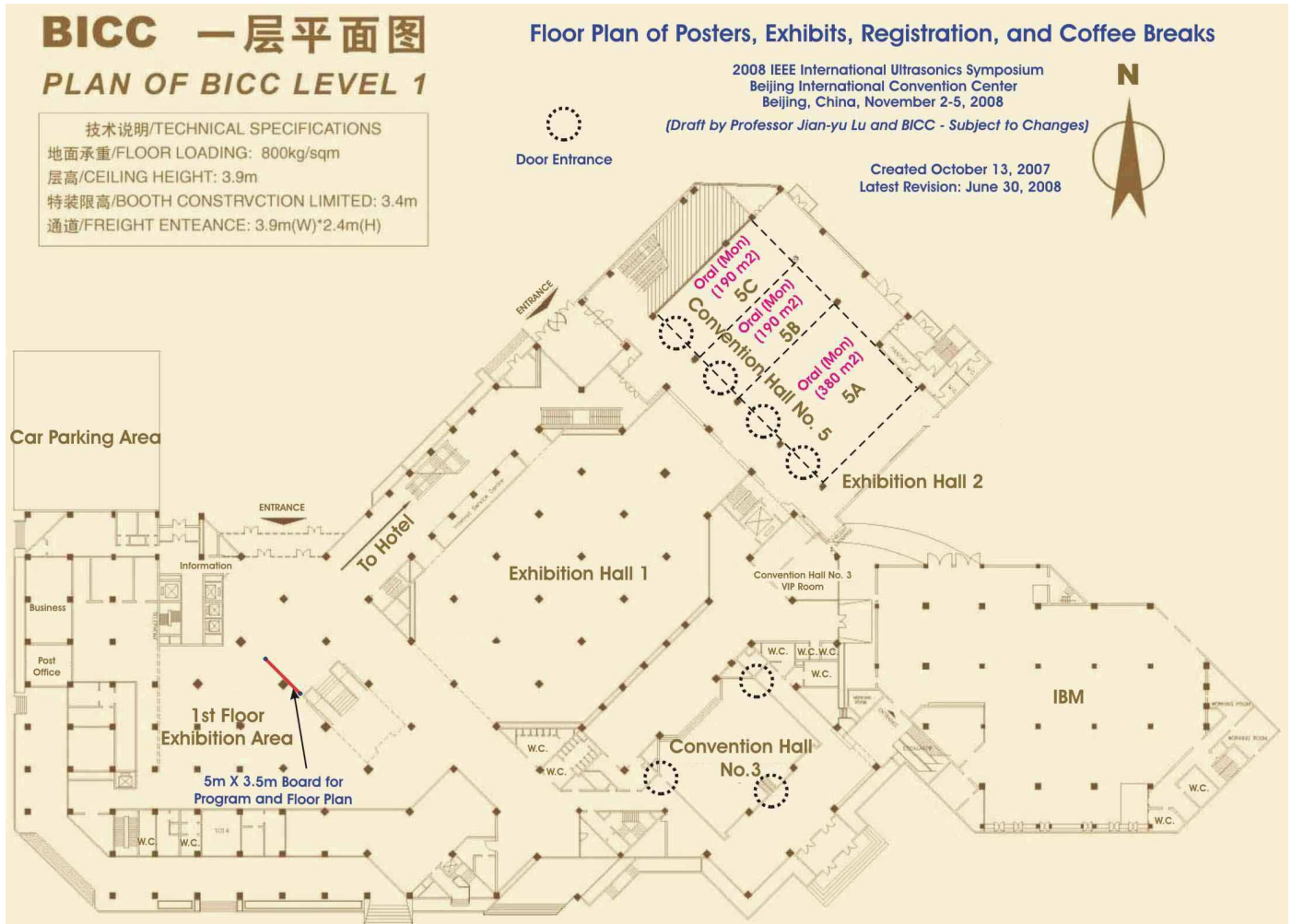
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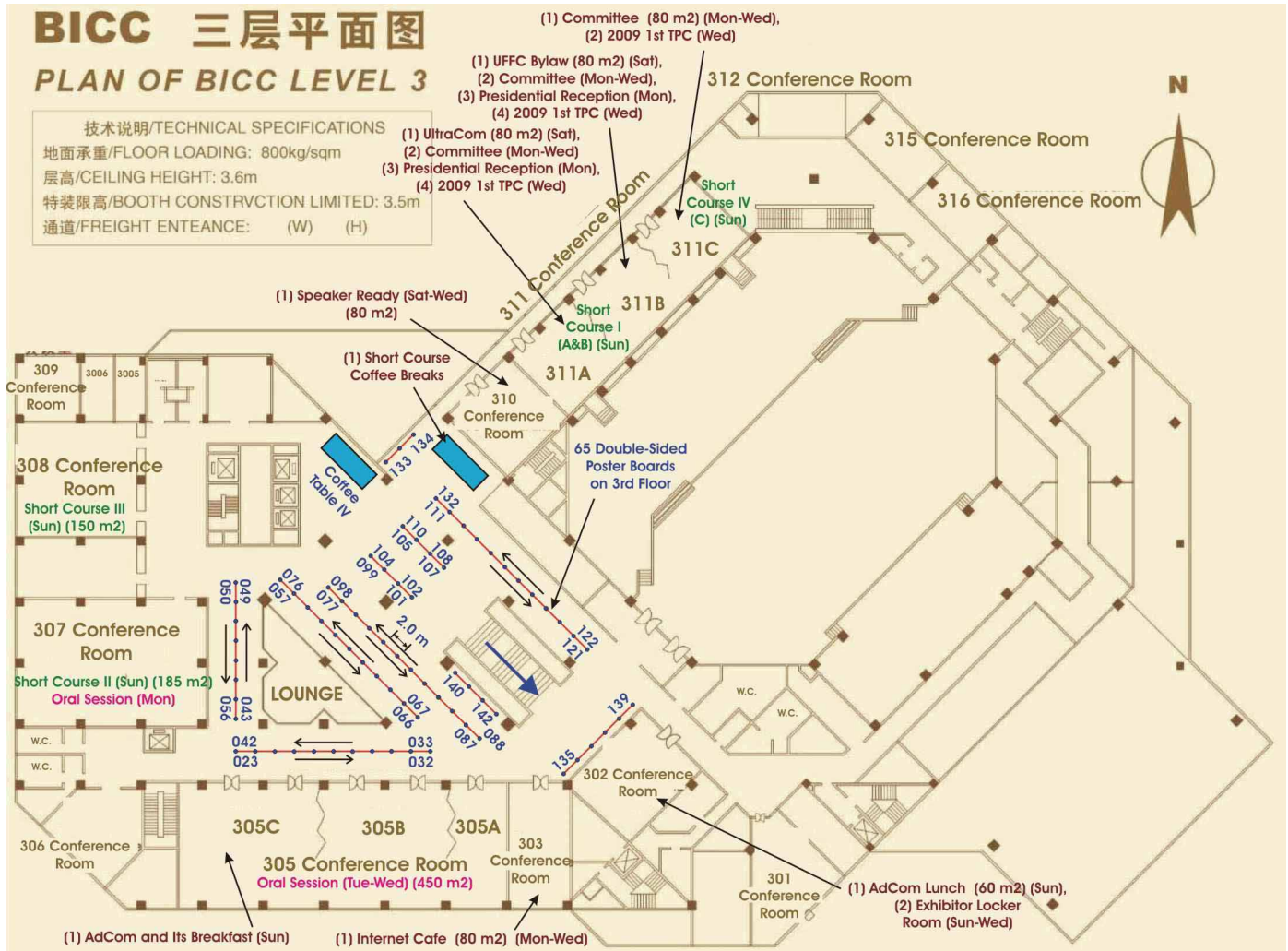
IEEE Catalog No.: CFP08ULT-PRT (For Softbound); CFP08ULT-DVD (For DVD)

I. Floor Plan

The First Floor of the Beijing International Convention Center (BICC):



The Third Floor of the Beijing International Convention Center (BICC):



II. Conference at a Glance Sheet

The Conference at a Glance Sheet:

The 2008 IEEE International Ultrasonics Symposium will place two 4 m x 2.8 m boards on the 1st and 2nd floors, respectively, of the Beijing International Convention Center (BICC). These boards will provide attendees information on technical program, floor plan, and poster locations in a single place. To locate the poster board of a particular poster, please use the poster label such as **PIA024-01**, where “024” after **PIA** represents the location of the poster.

For detailed description of poster labels and how to find the poster boards, please check the “[Poster Presentation Guide](#)” at the conference website for detail: http://ewh.ieee.org/conf/ius_2008.

2008 IEEE International Ultrasonics Symposium

Beijing, China, November 2-5, 2008

Room Names:

- Hall 1: Convention Hall No. 1
1900 m² (2nd & 3rd Floors)
- Hall 2: Convention Hall No. 2
Hall 2A: 366 m² (2nd Floor)
Hall 2B: 366 m² (2nd Floor)
Hall 2C: 366 m² (2nd Floor)
- Hall 3: Convention Hall No. 3
530 m² (1st & 2nd Floors)
- Hall 5: Convention Hall No. 5
Hall 5A: About 380 m² (1st Floor)
Hall 5B: About 190 m² (1st Floor)
Hall 5C: About 190 m² (1st Floor)

Room 301: 301 Conference Room
Room 201A/B/C: 450 m² (2nd Floor)

Room 305: 305 Conference Room
Room 305A/B/C: 450 m² (3rd Floor)

Room 307: 307 Conference Room
185 m² (3rd Floor)

Room 308: 308 Conference Room
150 m² (3rd Floor)

Room 311: 311 Conference Room
Room 311A: 80 m² (3rd Floor)
Room 311B: 80 m² (3rd Floor)
Room 311C: 80 m² (3rd Floor)

Color Codes for Groups:

- RED - Group I:** Medical Ultrasonics
- ORANGE - Group II:** Sensors, NDE, and Industrial Application
- GREEN - Group III:** Physical Acoustics
- Violet - Group IV:** Microacoustics - SAW, FBAR, MEMS
- BLACK - Group V:** Transducers and Transducer Materials

Invited Talks:

- (1): 1 Invited Talk
- (2): 2 Invited Talks
- (3): 3 Invited Talks

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. – 8:00 p.m.

SUNDAY, Nov. 2 Short Courses (with refreshments on 3rd Floor Foyer from 6:00 a.m. – 10:30 a.m., 2:00 p.m. – 3:30 p.m., and 6:00 p.m. – 8:30 p.m.)

Symposium Registration (2nd Floor Foyer), 7:00 a.m. – 7:00 p.m.

Short Courses (8:00 a.m. – 12:00 noon) Course 1A: Med. Ultrason. Transducers (311A/I) Course 2A: Ultrason. Imag. Systems (207) Course 3A: Photoacoustic Imag. & Sensing (308) Course 4A: Tissue Motion & Blood Flow (311C)	Short Courses (1:00 p.m. – 3:00 p.m.) Course 1B: Ultrason. Elastography (311A/I) Course 2B: Acoust. Microscopy (207) Course 3B: Therapeutic Ultrasonics (308) Course 4B: SAW Modeling Techniques (311C)	Short Courses (6:00 p.m. – 10:00 p.m.) Course 1C: Ultrason. Contrast Agents (311A/I) Course 2C: CMUTs (207) Course 3C: Time Reversal Acoustics (308) Course 4C: Acoust. Near-Field Imag. (311C)
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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. – 8:00 p.m. Exhibits (2nd Floor Foyer), 8:00 a.m. – 5:00 p.m.

8:00 a.m. – 10:00 a.m. **Plenary Session (Convention Hall 1 - For All Attendees)**

10:00 a.m. – 10:30 a.m. Refreshments (Locations: 2nd and 3rd Floor Foyers)

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
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12:00 noon – 1:30 p.m. Lunch (Convention Hall 1 - For All Attendees)

1B. High-Frequency and Small-Aperture Imaging (1)	2B. Bone I	3B. Ultrasonic Motors - Technology Advances	4B. Single Crystals I (2)	5B. NDE Signal Processing	6B. Advances in Materials & Propagation
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3:00 p.m. – 4:30 p.m. Posters and Refreshments (Locations: 2nd and 3rd Floor Foyers)

P1B. Silicon Competition	P1C. Medical Imaging	P1F. Photoacoustic Imag.	P1G. Sensor Props. & Det.	P1H. NDE Signal Proc.	P1M. Microwave Acoust. Devices for Wireless Front Ends
P1D. Medical Signal Proc.	P1E. Transducer Modeling	P1I. Ultrason. Motor Appl.	P1J. NDE Applications	P1K. SAW Devices	

4:30 p.m. – 6:00 p.m. 1C. Shear Wave and Shear Strain Imaging (1)

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 Hall 2A Hall 2B Hall 2C

Symposium Registration (2nd Floor Foyer), 7:00 a.m. – 8:30 p.m. Exhibits (2nd Floor Foyer), 8:00 a.m. – 5:00 p.m.

8:30 a.m. – 10:00 a.m. 1D. Elastically Imaging Applications

10:00 a.m. – 10:30 a.m. Refreshments (Locations: 2nd and 3rd Floor Foyers)

2D. Contrast Agents: Targeting & Therapeutics I	3D. Medical Signal Processing	4D. CMUTs	5D. Industrial Measurement	6D. Bulk Wave Resonators - I (1)
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10:30 a.m. – 12:00 noon 2E. Clinical Cancer Imaging (3)

12:00 noon – 1:30 p.m. Lunch (On Your Own)

1:30 p.m. – 3:00 p.m. 2F. 3-D Elastically Imaging (1)

3:00 p.m. – 4:30 p.m. Posters and Refreshments (Locations: 2nd and 3rd Floor Foyers)

P2A. Blood Flow	P2B. Bioeffects	P2D. Med. Imag. Transd.	P2J. Ultrason. Mot. Innov.	P2M. NDE Methods	P2P. Sen. & ID SAW Tags
P2B. Improv. Contrast Imag.	P2E. High Freq. Tech.	P2H. Non-Invas. Prodig.	P2K. Acoust. Wave Sens.	P2N. Thin Film & Device Fab.	
P2F. 3D / Cardiac Imag.	P2I. Ultrason. Vls. Trop. II	P2L. Ultrason. Vls. Trop. II	P2M. Acoust. Imag. Sig. Proc.	P2O. SAW Simulation	

4:30 p.m. – 6:00 p.m. 2G. Visco-Elasticity

6:30 p.m. – 10:00 p.m. Banquet Dinner and Shows (Convention Hall 1 - For All Attendees)

WEDNESDAY, Nov. 5 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. – 1:00 p.m. Exhibits (2nd Floor Foyer), 8:00 a.m. – 12:00 noon

8:30 a.m. – 10:00 a.m. 3H. Cavitation Therapy

10:00 a.m. – 10:30 a.m. Refreshments (Locations: 2nd and 3rd Floor Foyers)

3H. Cavitation Therapy	4H. Device Modeling	5H. Material and Detect. Characterization	6H. Optical & RF Ultrasonic Effects
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10:30 a.m. – 12:00 noon 3I. Cardiovascular Imaging (1)

12:00 noon – 1:30 p.m. Lunch (On Your Own)

1:30 p.m. – 3:00 p.m. 3J. Cardiovascular

3:00 p.m. – 4:30 p.m. Posters and Refreshments (Locations: 2nd and 3rd Floor Foyers)

P3A. Tiss. Charac. - Tech.	P3D. Therapeutic Ultrasound Applications	P3H. Material Properties III	P3J. SAW & MEMS Mat. & Dev.
P3B. Tiss. Charac. - In Vivo	P3E. Therapeutic Ultrasound Technologies	P3I. Bulk Wave Effects & Devices	P3K. Thin-Film & Propag.
P3C. Elastography	P3F. MUT Transducers	P3L. Bulk Wave Effects & Devices	

4:30 p.m. – 6:00 p.m. 3K. Adaptive Beam Forming

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.
Short Courses (8:00 a.m.-12:00 noon): 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)	Short Courses (1:00 p.m.-5:00 p.m.): Course 1B: Ultrason. Elastography (311A/B) Course 2B: Acoust. Microscopy (307) Course 3B: Therapeutic Ultrasound (308) Course 4B: SAW Modeling Techniques (311C)	Short Courses (6:00 p.m.-10:00 p.m.): 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.		Plenary Session (Convention Hall 1 - For All Attendees)					
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

Sizes of Rooms:	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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Note: Roughly 1 square meter (m2) per person.	Sizes of Rooms:	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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2008 IEEE International Ultrasonics Symposium Beijing, China, 2-5 November, 2008



Registration Form

(Including Short Courses & Tutorials) - http://ewh.ieee.org/conf/ius_2008/

(This form and payment must be **received** on or before **12 September, 2008** EST to qualify for discount registration rates.)

REGISTRATION INFORMATION – Please print all information clearly. This information will also be used to send the Proceedings DVD, please ensure the accuracy of the mailing address.



The Great Wall

Last (Family) Name: _____ First (Given) Name: _____ Vegetarian -

E-Mail: (Required. Confirmations are sent via email): _____

Company or Institution: _____

Street: _____

City: _____ State/Province: _____

Country: _____ Zip/Postal Code: _____

Telephone: _____ Fax: _____

MEMBERSHIP – A valid membership number is required to receive the member rates.

Member of (check all that apply): - IEEE - UFCF If a box is checked, indicate **IEEE MembershipNumber**: _____

SYMPOSIUM REGISTRATION

Registration fee includes DVD proceedings only*	By 12 Sept.	After 12 Sept.	Quantity	Subtotal
IEEE Member	<input type="checkbox"/> \$600	<input type="checkbox"/> \$700		\$ _____
Non-IEEE Member	<input type="checkbox"/> \$750	<input type="checkbox"/> \$850		\$ _____
Student (Show current student ID at Conference)	<input type="checkbox"/> \$150	<input type="checkbox"/> \$150		\$ _____
Retiree	<input type="checkbox"/> \$150	<input type="checkbox"/> \$150		\$ _____
One-Day Registration (without DVD Proceedings)	<input type="checkbox"/> \$350	<input type="checkbox"/> \$350, <input type="checkbox"/> Nov. 3, <input type="checkbox"/> Nov. 4, <input type="checkbox"/> Nov. 5		\$ _____
Life IEEE Member (Show Life Card at Conference)	<input type="checkbox"/> \$0	<input type="checkbox"/> \$0		\$ _____
Additional DVD Proceedings	<input type="checkbox"/> \$75	<input type="checkbox"/> \$75	_____	\$ _____

Note: Registration includes **Monday lunch**, **Monday evening buffet dinner**, and **Tuesday dinner/show**.

One-Day Registration includes event tickets for the day of registration only.

* A printed version of the Proceedings will only be available by ordering directly from the IEEE after the Symposium.

SHORT COURSE REGISTRATION

Registration Fee per Course

Member/Non-member/Life-Member/One-Day: \$150/each
Student/Retiree: \$ 50/each

Sunday 8:00 a.m. – 12:00 noon:

1A. Medical Ultrasound Transducers
(Douglas G. Wildes and L. Scott Smith) \$ _____

2A. Ultrasound Imaging System
(Kai E. Thomenius) \$ _____

3A. Photoacoustic Imaging and Sensing
(Stanislav Emelianov) \$ _____

4A. Tissue Motion and Blood Velocity
(Hans Torp and Lasse Løvstakke) \$ _____

Sunday 1:00 p.m. – 5:00 p.m.:

1B. Ultrasound Elastography
(Jeffrey Bamber and Paul Barbone) \$ _____

2B. Acoustic Microscopy
(R Maev, N Hozumi, K Kobayashi, Y Saijo) \$ _____

3B. Therapeutic Ultrasound
(Lawrence A. Crum) \$ _____

4B. SAW Modeling Techniques
(Victor P. Plessky) \$ _____

Sunday 6:00 p.m. – 10:00 p.m.:

1C. Ultrasound Contrast Agents
(Nico de Jong and Michel Versluis) \$ _____

2C. CMUTs
(BT Khuri-Yakub, O Oralkan, and M Kupnik) \$ _____

3C. Time Reversal Acoustics
(Mathias Fink) \$ _____

4C. Acoustical Near-Field Imaging
(Walter Arnold) \$ _____

GUEST REGISTRATION (does not include DVD proceedings) – Only ages 10 or older need registerLast (Family) Name: _____ First (Given) Name: _____ Vegetarian - Last (Family) Name: _____ First (Given) Name: _____ Vegetarian - Last (Family) Name: _____ First (Given) Name: _____ Vegetarian -

	Quantity	Subtotal
Guest Registration Fee: <input type="checkbox"/> \$75 / Each _____		\$ _____

Notes:

- (1) Guest registration includes **three guest breakfasts, Monday lunch, Monday evening buffet dinner, Tuesday night dinner/shows**. Guests are **NOT** allowed to attend any technical sessions except for the Monday morning plenary session.
- (2) If guests are interested in Beijing local tours, please register separately via the 2008 IEEE International Ultrasonics Symposium website at: http://ewh.ieee.org/conf/ius_2008/. China tours are also available from the web.

Total of All Charges Above: \$ _____

SOCIAL EVENTS

There will be three social events included in the conference registration this year: **Monday lunch (3 November, 2008), Monday evening buffet dinner (3 November, 2008), and Tuesday evening dinner/shows (4 November, 2008)**. Tickets to these events will be issued at registration desk for Symposium and guest registrants.

PAYMENT**Total Payment Enclosed:** \$ _____

Off-Site Registration: The remittance is payable in **US Dollars** only, personal or company checks drawn on a US Bank, money orders, VISA, MASTERCARD, or AMERICAN EXPRESS CARD. Bank drafts, purchase orders, and foreign currency will not be accepted. The remittance must accompany this form. To pay by check or money order, make a single check or money order (\$US only) payable to the 2008 IEEE International Ultrasonics Symposium. This form and payment must be **received** by **12 September, 2008** to receive a reduced rate. For registration by **regular mail** or **fax**, the registration form has to be **received** by **17 October, 2008**. Otherwise your registration may not be valid unless you register on-site. If you pay **online** by one of the three types of credit cards above, you may register anytime before **5 November, 2008** (must register by 12 September, 2008 for a reduced rate).

On-Site Registration: Registration fee can be paid in Chinese Yuans (RMB) at the then prevailing exchange rates to the registration desk at the conference site, or by a Visa, MasterCard, or American Express via on-line kiosks (computers) at the conference site.

Please select your method of payment:	Charges to your credit card will appear as: 2008 IEEE IUS
<input type="checkbox"/> -Visa <input type="checkbox"/> -MasterCard <input type="checkbox"/> -American Express <input type="checkbox"/> -Check	Expiration Date: _____
Name On Card:	Card Number:
Card Security Code (CSV): _____	Billing Street Address:
Signature: _____	Billing Zip/Postal Code: _____

Mail (for off-site registration): Mail completed form and payment to: 2008 IEEE International Ultrasonics Symposium C/O YesEvents P.O. Box 32862 Baltimore, Maryland USA 21282	Fax (for off-site registration): Fax registration form (credit card payment only) to: 1-410-559-2217 (Fax)
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Do not submit this form by both mail and fax.



2008 IEEE International Ultrasonics Symposium

(Including Short Courses & Tutorials)



November 2-5, 2008

Beijing International Convention Center, Beijing, China

Sponsored by the IEEE Ultrasonics, Ferroelectrics, & Frequency Control Society
In Cooperation with the Acoustical Society of China and the Institute of Acoustics, Chinese Academy of Sciences

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Session Summary Form (for Session Chairs)

http://ewh.ieee.org/conf/ius_2008/

Please Submit the Form to the Conference Registration Desk

Session Label (1A, 1B, P1A, P1B, etc.): _____

Session Chair Name: _____

Session Chair Signature: _____

Estimated Maximum Number of People in the Session: _____

Indicate the papers (**name** of the first author and **Presentation Label** such as PS022-22) that are **NOT** presented in this session. These papers will not be included in the conference proceedings:

1. Label: _____ Name: _____ 2. Label: _____ Name: _____

3. Label: _____ Name: _____ 4. Label: _____ Name: _____

5. Label: _____ Name: _____ 6. Label: _____ Name: _____

Comments or Suggestions:



**2008 IEEE International Ultrasonics Symposium
Beijing, China, 2-5 November, 2008**



**Course Evaluation Form (can also be downloaded from web via
the link "Short Courses" at: http://ewh.ieee.org/conf/ius_2008/)**

General: Please take a couple of minutes to complete this course evaluation form to help us to improve in the future.

The Courses: Please check the box for the course(s) you have attended:



The Great Wall

<input type="checkbox"/> 1A: Medical Ultrason. Transd.	<input type="checkbox"/> 1B: Ultrasound Elastography	<input type="checkbox"/> 1C: Ultrason. Contr. Agents
<input type="checkbox"/> 2A: Ultrasound Imaging System	<input type="checkbox"/> 2B: Acoustic Microscopy	<input type="checkbox"/> 2C: CMUTs
<input type="checkbox"/> 3A: Photoacoustic Imag. Sensing	<input type="checkbox"/> 3B: Therapeutic Ultrasound	<input type="checkbox"/> 3C: Time Reversal
<input type="checkbox"/> 4A: Tissue Motion and Blood	<input type="checkbox"/> 4B: SAW Modeling Techniques	<input type="checkbox"/> 4C: Near-Field Imaging

Your Background (Select One): Student Academia Industry Other_____

Years of Experience in Ultrasound: _____

Questions:	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1. The course was well organized	1	2	3	4	5
2. The course taught me new information	1	2	3	4	5
3. The course was well matched for my prior knowledge	1	2	3	4	5
4. This course exceeded my expectations	1	2	3	4	5
5. The course provided enough information on the topic	1	2	3	4	5
6. The course made me want to pursue more on the topic	1	2	3	4	5
7. The instructor(s) communicated information effectively	1	2	3	4	5
8. The instructor(s) was/were well prepared for this short course	1	2	3	4	5
9. The instructor(s) paced the course effectively and efficiently	1	2	3	4	5
10. The room/environment was adequate for learning	1	2	3	4	5
11. I would like to see this course made available next year	1	2	3	4	5
12. I would recommend this course to others next year	1	2	3	4	5
13. At this point in time, I feel the course has been of great value to me	1	2	3	4	5
14. What overall rating would you give this course? (5 = best)	1	2	3	4	5
15. What overall rating would you give the instructor(s)? (5 = best)	1	2	3	4	5
16. What short course topics would you suggest for next year?					
17. From the current topics offered, which courses would you want to take next year? (For example: 1A, 2A, 3A, ...)					

Comments: Please feel free to make additional comments in the box below:



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First Call for Papers

Abstract deadline: **May 4, 2008**

Abstract submission and conference website:

http://ewh.ieee.org/conf/ius_2008/

The annual IEEE International Ultrasonics Symposium (IUS) will be held at the Beijing International Convention Center (BICC), Beijing, China, from November 2-5, 2008. This will be the first time that the IUS will take place in China. Beijing is the capital of China and has a long history and a great culture. It will also host the 2008 Summer Olympics and Paralympics, which will be held in August and September, 2008. After the Olympics, Beijing will have decorated city streets, improved infrastructure, cleaner environment, and greatly increased hotel capacity. The 2008 IUS will take advantage of this historic opportunity to offer conference attendees and their guests not only an excellent technical program, but also an opportunity to explore the rich culture and visit tourist attractions of Beijing and the rest of China. The BICC is located within the Olympic Complex.

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 4, 2008**. 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_2008/. 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 and Beam Steering
MBE Biological Effects & Dosimetry
MBF Blood Flow Measurement
MCA Contrast Agents
MEL Elastography
MIM Medical Imaging
MSP Medical Signal Processing
MTC Medical Tissue Characterization
MTH Therapeutics, Hyperthermia, Ultrasound in Surgery

Group 2: Sensors, NDE & Industrial Applications

NAM Acoustic Microscopy
NAI Acoustic Imaging
NAS Acoustic Sensors
NDE General NDE Methods
NFM Flow Measurement
NMC Material & Defect Characterization
NPM Wave Propagation
NSP Signal Processing
NTD Transducers: NDE and Industrial

Group 3: Physical Acoustics

PBW Bulk Wave Effects & Devices
PGP General Physical Acoustics
PMI Magnetic/Electromagnetic Interactions
POI Optical Interactions
PUM Ultrasonic Motors & Actuators
PTF Thin Films

Group 4: Microacoustics – SAW, FBAR, MEMS

MMP Materials & Propagation
MDM Device Modeling
MDD Device Design
MDA Device Applications

Group 5: Transducers & Transducer Materials

TMC Transducers: Materials Characterization and Fabrication Technology
TPF Transducers: Piezoelectric and Ferroelectric Materials
TMO Transducer Modeling (Analytical & Numerical)
TMT Medical Transducers
TMU Micromachined Ultrasound Transducers

Student Travel Support: Limited funds are available to support **IEEE UFFC student member attendees** at the 2008 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 China. The information is expected to be available in February 2008.



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MDD Device Design
MDA Device Applications

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TMC Transducers: Materials Characterization and Fabrication Technology
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Invited Speakers

There will be 21 invited speakers as follows:

Group 1: Medical Ultrasonics:

- **Jan D'hooge**, "Functional imaging of the heart," *Cardiovascular Imaging and Dynamics, Medical Imaging Center, University Hospital Gasthuisberg, Belgium.*
- **Mathias Fink**, "Supersonic shear wave elasticity imaging," *Laboratoire Ondes et Acoustique, ESPCI and Paris 7 University, Paris, France.*
- **Stuart Foster**, "Micro-ultrasound takes off," *Department of Medical Biophysics, Sunnybrook Health Sciences Centre, University of Toronto, Toronto, Canada.*
- **Hiroshi Kanai**, "Ultrasonic imaging of 3-dimensional propagation of electric excitation and vibrations in human heart," *Department of Electronic Engineering, Graduate School of Engineering, Tohoku University, Sendai, Japan.*
- **Richard Prager, Andrew Gee and Graham Treece**, "Deconvolution and elastography based on 3D ultrasound," *Department of Engineering, University of Cambridge, Cambridge, CB2 1PZ, United Kingdom.*
- **Hairong Zheng**, "Ultrasound particle velocimetry: an emerging technique in cardiology," *Lauterbur Biomedical Imaging Center, Institute of Biomedical and Health Engineering, Shenzhen Institutes of Advanced Technology, Chinese Academy of Science, Shenzhen, China.*

Group 2: Sensors, NDE, and Industrial Application:

- **Saul Jacobson**, "New developments in ultrasonic gas analysis and flowmetering," *403 Huon Road, TAS 7004, Australia.*
- **Claire Prada and Mathias Fink**, "Invariants of the time reversal operator and ultrasonic applications," *Laboratoire Ondes et Acoustique, ESPCI, PARIS, FRANCE.*
- **Orest G. Symko**, "Ultrasonic Thermoacoustic Energy Conversion," *Department of Physics, University of Utah, Salt Lake City, Utah, USA.*
- **Michael Thompson and Scott Ballsntyne**, "Ultra high frequency acoustic wave detection of HIV antibody in whole serum," *Department of Chemistry and Institute for Biomaterials and Biomedical Engineering, University of Toronto, Toronto, Canada.*

Group 3: Physical Acoustics:

- **Eun Sok Kim**, "Piezoelectric MEMS for audio signal transduction, microfluidic management, resonant mass sensing, and movable surface micromachined structures," *Department of Electrical Engineering-Electrophysics, University of Southern California, USA.*
- ***Vivian Pistre and **Bikash Sinha**, "Applications of sonic waves in the geophysical, geomechanical, and petrophysical characterization of subsurface rocks," **Schlumberger Beijing Geoscience Center, China. **Schlumberger-Dill Research, Cambridge, MA, USA.*
- **Yuesheng Wang**, "Interfacial waves and stability at the frictional sliding interface between two solids," *Institute of Engineering Mechanics, Beijing Jiaotong University, China.*
- **Yook-Kong Yong, Mihir Patel, and Masako Tanaka**, "Theory, and experimental verification of the resonator Q and equivalent electrical parameters due to viscoelastic, conductivity and mounting supports losses," *Dept. of Civil & Environmental Engineering, Rutgers University, USA.*



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Invited Speakers (Continued)

Group 4: Microacoustics – SAW, FBAR, MEMS:

- **Robert Aigner**, "SAW vs. BAW: A Review of the Relative Strengths and Weaknesses of These Technologies for RF Filter Applications," *TriQuint Semiconductor, Hillsboro, OR, USA.*
- ***Ken-ya Hashimoto** and ****Michio Kadota**, "Piezoelectric Boundary Wave Devices: Their Underlying Physics and Applications," **Chiba University, Chiba, Japan. **Murata MFG, Co. Ltd., Kyoto, Japan.*
- **C. S. Lam**, "A Review of the Recent Development of MEMS and Crystal Oscillators and Their Impacts on the Frequency Control Products Industry," *Integrated Device Technology, Inc., San Jose, CA, USA.*

Group 5: Transducers and Transducer Materials:

- **Ho-yong Lee**, "PMN-PZT Single Crystals and Composites for Transducer Applications," *Ceracomp Co., Ltd., Sunmoon University, Asan, Chungnam, South Korea.*
- **Haosu Luo**, "PMN-PT single crystals and their medical transducer applications," *SICCAS, Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China.*
- **Wen Rei**, "Piezoelectric Thin and Thick Films for Transducer Applications," *Electronic Materials Research Lab, Xi'an, Jiaotong University, Xi'an, Shaanxi, China.*
- **Stewart Sherit**, "The Physical Acoustics of Energy Harvesting," *Advanced Technologies Group, Instrument Mechanical Engineering Section, Jet Propulsion Laboratory, Pasadena, CA, USA.*

Special Clinical Session

The 2008 IEEE International Ultrasonics Symposium will include a special clinical session to show how medical ultrasound technologies are used in clinical practices. This special session consists of the following half-hour invited presentations. More information is available at the symposium web site: http://ewh.ieee.org/conf/ius_2008/.

Talk #1: Making microbubbles work for ultrasound: Technical and Broader Challenges, *Peter Burns*, Department of Medical Biophysics, University of Toronto, Toronto, Ontario, Canada.

Talk #2: Clinical Ultrasound in China, *Yuxin Jiang*, Department of Diagnostic Ultrasound, Peking Union Medical College Hospital, Beijing 100730, China.

Talk #3: Applications of Contrast Ultrasound in Radiology, *Stephanie Wilson*, Department of Diagnostic Imaging, Foothills Medical Centre, Calgary AB, Canada.



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Short Courses & Tutorials

(Please visit the symposium web site for more information: http://ewh.ieee.org/conf/ius_2008/)

8:00 A.M. - 12:00 Noon, Sunday, November 2, 2008:

- **Short Course 1A: Medical Ultrasound Transducers**, *Douglas G. Wildes* and *L. Scott Smith*, GE Global Research Center, Niskayuna, NY, USA.
- **Short Course 2A: Ultrasound Imaging Systems: from Principles to Implementation**, *Kai E. Thomenius*, GE Global Research Center, Niskayuna, NY, USA.
- **Short Course 3A: Acoustical Near-Field Imaging**, *Walter Arnold*, Fraunhofer Institute for Non-Destructive Testing, Saarbrücken, Germany.
- **Short Course 4A: Estimation and Imaging of Tissue Motion and Blood Velocity**, *Hans Torp* and *Lasse Lovstakken*, Department of circulation and medical imaging, Norwegian University of Science and Technology, Trondheim, Norway.

1:00 P.M. - 5:00 P.M, Sunday, November 2, 2008:

- **Short Course 1B: Ultrasound Elastography: Quantitative Approaches**, **Jeffrey Bamber* and ***Paul Barbone*, **Institute of Cancer Research and Royal Marsden Hospital, UK.* ***Boston University, USA.*
- **Short Course 2B: Photoacoustic Imaging and Sensing**, *Stanislav Emelianov*, Biomedical Engineering Department, University of Texas at Austin, USA.
- **Short Course 3B: Acoustic Microscopy - Fundamentals and Applications**, **Roman Gr. Maev*, ***Naohiro Hozumi*, ****Kazuto Kobayashi*, and *****Yoshifumi Saijo*, **Centre for Imaging Research and Advanced Materials Characterization, University of Windsor, Ontario, Canada.* ***Department of Electrical & Electronic Engineering, Aichi Institute of Technology, Toyota, Japan.* ****Honda Electronics Co. Ltd., Aichi, Japan.* *****Tohoku University, Sendai, Japan.*
- **Short Course 4B: SAW Modelling Techniques**, *Victor P. Plessky*, GVR Trade SA, Bevaix, Switzerland.

6:00 P.M. - 10:00 P.M, Sunday, November 2, 2008:

- **Short Course 1C: Ultrasound Contrast Agents: Theory and Experiment**, **Nico de Jong* and ***Michel Versluis*, **Erasmus MC, The Netherlands.* ***University of Twente, The Netherlands.*
- **Short Course 2C: CMUTs: Theory, Technology, and Applications**, *B.T. Khuri-Yakub*, *Ömer Oralkan*, and *Mario Kupnik*, *E.L. Ginzton Laboratory, Stanford University, USA.*
- **Short Course 3C: Time Reversal Acoustics**, *Mathias Fink*, *École Supérieure de Physique et de Chimie de la Ville de Paris, France.*

Plenary Speaker

The 2008 IEEE International Ultrasonics Symposium will have a plenary speaker on acoustics of traditional Chinese theaters as follows. More information is available at the symposium web site: http://ewh.ieee.org/conf/ius_2008/.

Acoustics of Traditional Chinese Theatrical Buildings, *Jiqing Wang*, Institute of Acoustics, Tongji University, Shanghai, China 200092, E-mail: wongtsu@126.com.