American Institute of Ultrasound in Medicine

Final Program

2007

American Institute of Ultrasound in Medicine
14750 Sweitzer Ln, Suite 100
Laurel, MD 20707-5906 USA
301-498-4100 • 800-638-5352
Fax: 301-498-4450
www.aium.org
In creating the new ACUSON Antares™ ultrasound system, premium edition, we investigated your latest, most pressing clinical issues. The result — a system designed around you, enabling you to excel at virtually any ultrasound challenge.

Across the full range of ultrasound examinations, including cardiac imaging, the new Antares system delivers the impressive combination of superior image quality, operator-friendly ErgoDynamic™ imaging system design, applications versatility, and the latest advancements in clinical workflow. So no matter what diagnostic challenge walks in the door, you'll know you already have the answer.

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Note: Circles correspond to color-coded pages.

Endowment for Education and Research Grant Findings

Symbol indicates courses that will be videotaped.
An educational experience that stands out in a crowd.
2007 AIUM Annual Convention and Preconvention Program

Schedule at a Glance

Thursday, March 15, 2007
6:30 AM–5:45 PM  Registration Open
7:00 AM–8:00 AM  Preconvention Breakfast
7:30 AM–5:30 PM  Preconvention Program
1:30 PM–9:00 PM  Professional Interest Section Meetings
8:00 PM–10:00 PM  Presidential Reception for New Members and Leadership (by invitation only)

Friday, March 16, 2007
6:30 AM–4:15 PM  Registration Open
7:00 AM–8:00 AM  Meet-the-Professor Sessions
8:15 AM–9:45 AM  Categorical Courses
8:15 AM–9:45 AM  Hands-on Course: Interventional Ultrasound-Guided Biopsies
1:30 PM–9:00 PM  Professional Interest Section Meetings
8:00 PM–10:00 PM  Presidential Reception for New Members and Leadership (by invitation only)

Saturday, March 17, 2007
6:30 AM–5:45 PM  Registration Open
6:45 AM–7:45 AM  Meet-the-Professor Sessions
8:00 AM–9:30 AM  Categorical Courses
8:00 AM–9:30 AM  Hands-on Course: Musculoskeletal Ultrasound
8:00 AM–9:30 AM  "Getting Started" Ultrasound Practice–Accreditation Workshop
9:30 AM–4:30 PM  Exhibit Hall Open
9:30 AM–10:30 AM  Refreshment Break
10:30 AM–12:00 PM  Scientific Sessions
10:30 AM–12:00 PM  New Investigator Session
12:15 PM–1:15 PM  Meet-the-Professor Sessions
12:15 PM–1:15 PM  Scientific Poster Discussion
12:15 PM–1:15 PM  Lunch Break in Exhibit Hall
1:30 PM–3:30 PM  Categorical Courses
1:30 PM–3:30 PM  Hands-on Course: Three-Dimensional Volume Manipulation in Obstetrics and Gynecology–Basic to Advanced Techniques
3:30 PM–4:30 PM  Refreshment Break
3:30 PM–4:30 PM  Professional Interest Section Meetings
4:30 PM–5:30 PM  Scientific Sessions
4:30 PM–5:30 PM  Just Images Session: Pediatric and Cardiovascular Ultrasound
7:00 PM–11:00 PM  Leadership Banquet and Club AIUM (by invitation only)

Sunday, March 18, 2007
6:30 AM–5:00 PM  Registration Open
7:00 AM–8:00 AM  Meet-the-Professor Sessions
8:15 AM–10:15 AM  Categorical Courses
8:15 AM–10:15 AM  Hands-on Course: Cardiovascular Ultrasound
8:15 AM–10:15 AM  Hands-on Course: Neurosonology
9:30 AM–1:30 PM  Exhibit Hall Open
10:15 AM–11:15 AM  Refreshment Break
11:15 AM–12:15 PM  Film Panel Sessions
12:30 PM–1:30 PM  Meet-the-Professor Sessions
12:30 PM–1:30 PM  Scientific Poster Discussion
12:30 PM–1:30 PM  Lunch Break in Exhibit Hall
1:30 PM–2:00 PM  AIUM Business Meeting
1:45 PM–3:15 PM  Categorical Courses
1:45 PM–3:15 PM  Scientific Sessions
3:30 PM–5:00 PM  Just Images Session: Abdominal and Musculoskeletal Ultrasound

Monday, March 19, 2007
8:00 AM–1:00 PM  Board of Governors Meeting
At GE Healthcare, we believe an innovative idea can achieve transformational results. We focus on ultrasound applications that will create new clinical value for you and your patients. Then, we bring them to life through annual breakthroughs within our LOGIQ®, Vivid® and Voluson® product families.

It's all about giving you the freedom to see ultrasound in brand new ways. Volume Ultrasound. Compact ultrasound. Powerful IT solutions. All the latest technologies from GE - designed just for you. Imagine the effect.

Ultrasound Re-imagined

For more information about GE's ultrasound products, please contact us at 888-202-5528 or visit us online at gehealthcare.com.
General Information

Committee Office Hours
Hart + Fourth Floor
Thursday, March 15, 2007 7:30 AM – 5:00 PM
Friday, March 16, 2007 7:30 AM – 4:15 PM
Saturday, March 17, 2007 7:30 AM – 5:30 PM
Sunday, March 18, 2007 7:00 AM – 2:30 PM

Registration Hours
Fifth Floor Foyer
Thursday, March 15, 2007 6:30 AM – 5:45 PM
Friday, March 16, 2007 6:30 AM – 4:15 PM
Saturday, March 17, 2007 6:30 AM – 5:45 PM
Sunday, March 18, 2007 6:00 AM – 5:00 PM

Exhibit Hall Hours
Fifth Floor
Friday, March 16, 2007 12:00 PM – 3:00 PM
Opening Reception 5:30 PM – 7:30 PM
Saturday, March 17, 2007 9:30 AM – 4:30 PM
Sunday, March 18, 2007 9:30 AM – 1:30 PM

AIUM Resource Center Hours
Fifth Floor Foyer
Friday, March 16, 2007 8:00 AM – 4:15 PM
Saturday, March 17, 2007 8:00 AM – 5:30 PM
Sunday, March 18, 2007 8:00 AM – 2:00 PM

Hotel Information
Marriott Marquis Hotel
1535 Broadway
New York, NY 10036 USA
Main Hotel Number: 212-398-1900

Although many organizations and associations use an outside travel agency to negotiate contracts, the AIUM negotiates its own contracts, and any commissions are paid directly to the AIUM. Income from commissionable rates allows the AIUM to offset expenses and provide more and better services to attendees.

Need Help?
If you have a question about the convention, look for the blue denim shirts. The AIUM staff will be wearing these shirts Thursday through Sunday.

Business Center
The Marriott Marquis hotel has a business center located on the eighth floor next to guest registration. Please check with the hotel for business hours.

Videotaping and Photography Policy
The AIUM does not allow any unauthorized videotaping or photography during the AIUM Annual Convention or Preconvention Program.

Please note that photographs taken by AIUM staff during the convention may be used for news coverage of the event and/or for future AIUM promotional materials. In addition, several courses may be videotaped for inclusion in the AIUM’s educational video program library.

Medical Emergencies
In case of a personal emergency during your stay at the Marriott Marquis Hotel, dial 0 for the hotel operator. The nearest hospital is Roosevelt Hospital, 1000 10th Ave at 59th St, New York, NY 10019. The telephone number is 212-523-4000.
Children

Educational Sessions—Due to the nature of the educational sessions, we do not encourage children to be present.

Exhibit Hall—Children may walk through the Exhibit Hall if they are accompanied by an adult who will assume responsibility for any damage to the exhibits caused by the child. Children are not permitted in the Exhibit Hall during the exhibit setup and dismantlement period.

Child Care—Contact the concierge at your hotel for assistance in finding child care services.

Convention Registration Information

Registration fees are payable with submission of the registration form. Convention registration fees cover attendance to all sessions held Friday, March 16, through Sunday, March 18, 2007 (except the Meet-the-Professor sessions).

Meet-the-Professor Sessions

Meet-the-Professor (MTP) sessions are slightly different this year. We will not be offering meals; we will offer beverage service only. Registration for MTP sessions is on a first-come, first-served basis, according to the date of receipt of the registration form. There is no waiting list for sold-out sessions. Those who have registered for sessions have received notification. If your requested session was sold out, we have not charged your credit card. If you paid by check, you will receive a refund check, which you will receive separate from your confirmation. Tickets for entrance to the MTP sessions have been issued on-site with your registration materials.

AIUM Member Registration Rates

To be eligible for AIUM member registration rates, membership must be current through the convention dates.

Spouse/Guest

You may register a spouse/guest for $50, which provides access to the Exhibit Hall.

Cancellations

Written cancellations must be received by January 5, 2007, to receive a refund of meeting registration fees minus a $75 administrative fee. Written cancellations after January 5, 2007, will not receive a refund. Written cancellations must be received by the AIUM via fax or mail. No exceptions will be made to the policy.

Fragrance

Attendees are urged to refrain from using perfume, cologne, and other fragrances for the comfort of all participants.

Smoking

Smoking is prohibited in the meeting rooms and Exhibit Hall. The New York Marriott Marquis Hotel is a 100% smoke-free environment.

Cell Phones

As a courtesy to your fellow convention attendees and faculty, we ask that you please turn off your cell phone or put it on vibrate during the educational sessions.
Educational Opportunities

Course Format Descriptions

• Preconvention Program— Attend courses providing in-depth coverage of ultrasound issues. Earn up to 8 CME credits.

• Categorical Courses— Choose from concurrent courses developed by section chairs and the Annual Convention Committee and presented by distinguished ultrasound professionals.

• Hands-on Courses— Participate in courses covering 3-dimensional volume manipulation in obstetrics and gynecology, emergency ultrasound, interventional ultrasound, musculoskeletal ultrasound, neurosonology, and vascular ultrasound.

• Matrix Modules— Attend comprehensive presentations combining categorical and scientific presentations. Topics will include obstetric, gynecologic, and vascular ultrasound.

• Meet-the-Professor (MTP) Sessions— Participate in small-group sessions led by renowned ultrasound professionals. Space is limited to 40 participants per session. Each MTP session requires an additional $20 fee. (Note: The registration fee for MTP sessions has been reduced, as breakfast and lunch will not be served.) Earn up to 6 CME credits.

• Scientific Sessions— Learn about the latest case reports and research in ultrasound. Topics include:
  - Basic Science
  - Breast Ultrasound
  - Clinical Tissue Characterization
  - Emergency Ultrasound
  - General Abdominal Ultrasound
  - Genitourinary Ultrasound
  - Gynecologic Ultrasound
  - High-Frequency Clinical and Preclinical Imaging
  - Interventional/Intraoperative Ultrasound
  - Obstetric Ultrasound
  - Pediatric Ultrasound
  - Sonography Practice

• Just Images Sessions— View and discuss unique cases with the physicians who made the diagnoses. Topics include abdominal ultrasound, musculoskeletal ultrasound, obstetric and gynecologic ultrasound, pediatric ultrasound, and vascular ultrasound.

• Film Panel Sessions— Discuss unknown ultrasound cases in either general or obstetric ultrasound.

• Scientific Poster Exhibits— View the latest research in progress presented in a visual format.

• Accreditation “Getting Started” Workshop— Learn how easy it is to complete the ultrasound practice accreditation process and get answers to the most commonly asked questions regarding accreditation.

• Case-of-the-Day Challenges— Test your abilities each day by diagnosing unique case studies.

• Professional Interest Section Meetings— Meet with other ultrasound professionals who share your interests, plan future AIUM educational programs, and discuss the issues in your specialty.

More hands-on courses added for 2007!

New course format!

Sessions now offered in a variety of ultrasound topics!
## Committee Meeting Schedule

Room names are listed under the time of each meeting.

### Wednesday, March 14, 2007

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 AM – 4:00 PM</td>
<td>Output Standards Subcommittee</td>
<td>Brecht</td>
</tr>
<tr>
<td>5:00 PM – 9:00 PM</td>
<td>IEC Subcommittee</td>
<td>Brecht</td>
</tr>
</tbody>
</table>

### Thursday, March 15, 2007

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 12:00 PM</td>
<td>Technical Standards Committee</td>
<td>Brecht</td>
</tr>
<tr>
<td>12:00 PM – 1:00 PM</td>
<td>Annual Convention Committee</td>
<td>O’Neill</td>
</tr>
<tr>
<td>2:00 PM – 8:00 PM</td>
<td>Bioeffects Committee</td>
<td>Brecht</td>
</tr>
<tr>
<td>8:00 PM – 10:00 PM</td>
<td>Presidential Reception for New Members and Leadership</td>
<td>JW Marriott Suite 43rd Floor</td>
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### Friday, March 16, 2007

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Finance Committee</td>
<td>Barrymore</td>
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<tr>
<td>8:00 AM – 9:30 AM</td>
<td>Executive Committee</td>
<td>Barrymore</td>
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<tr>
<td>10:00 AM – 12:00 PM</td>
<td>Continuing Medical Education Committee</td>
<td>Columbia</td>
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<tr>
<td>1:45 PM – 3:15 PM</td>
<td>Endowment for Education and Research Committee</td>
<td>Duffy</td>
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### Saturday, March 17, 2007

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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</thead>
<tbody>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Journal of Ultrasound in Medicine Editorial and Advisory Board Breakfast</td>
<td>Columbia/Duffy</td>
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<tr>
<td>8:30 AM – 10:00 AM</td>
<td>Postgraduate Course Committee</td>
<td>Barrymore</td>
</tr>
<tr>
<td>10:30 AM – 12:00 PM</td>
<td>Public Education and Resource Committee</td>
<td>Jolson</td>
</tr>
<tr>
<td>12:15 PM – 1:15 PM</td>
<td>Presidential Advisory Council</td>
<td>JW Marriott Suite 43rd Floor</td>
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<tr>
<td>1:00 PM – 2:30 PM</td>
<td>Membership Committee</td>
<td>Duffy</td>
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<tr>
<td>3:30 PM – 5:30 PM</td>
<td>Ultrasound Practice Accreditation Committee</td>
<td>Columbia</td>
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### Sunday, March 18, 2007

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>7:30 AM – 8:00 AM</td>
<td>Exhibit Advisory Committee</td>
<td>Duffy</td>
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<tr>
<td>8:15 AM – 9:45 AM</td>
<td>Clinical Standards Committee</td>
<td>Columbia</td>
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<tr>
<td>10:45 AM – 12:15 PM</td>
<td>Council on Sections</td>
<td>Duffy</td>
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<tr>
<td>1:30 PM – 1:45 PM</td>
<td>AIUM Business Meeting</td>
<td>Ziegfeld</td>
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<tr>
<td>2:00 PM – 4:00 PM</td>
<td>Executive Committee</td>
<td>Columbia</td>
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### Monday, March 19, 2007

<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>8:00 AM – 1:00 PM</td>
<td>Board of Governors Meeting</td>
<td>Marquis Ballroom</td>
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</table>
Professional Interest Section Meeting Schedule

Room names are listed beneath each meeting.

Thursday, March 15, 2007
1:30 PM–3:00 PM
Neurosonology
Wilder
High-Frequency Clinical and Preclinical Imaging
Odets
General and Abdominal Ultrasound
Ziegfeld
3:15 PM–4:45 PM
Pediatric Ultrasound
Wilder
Interventional/Intraoperative Ultrasound
Odets
5:15 PM–6:45 PM
Gynecologic Ultrasound
Odets
Cardiovascular Ultrasound
Empire Complex
Fetal Echocardiography
Ziegfeld
5:45 PM–6:45 PM
Emergency Ultrasound
Wilder
7:30 PM–9:00 PM
Obstetric Ultrasound
Wilder
Musculoskeletal Ultrasound
Odets

Saturday, March 17, 2007
3:30 PM–4:30 PM
Practice of Sonography
Empire Complex
Basic Science and Instrumentation
Marquis Ballroom

Networking at the AIUM Annual Convention

Do you want to know if a colleague is attending the AIUM Annual Convention?
Looking for other attendees from your area?
The AIUM will have a listing of all 2007 Annual Convention and Preconvention Program attendees (in both alphabetical order and by state) available for viewing at the AIUM Resource Center, located next to AIUM registration, just outside the Exhibit Hall. See page 3 for AIUM Resource Center hours.
Other CME Opportunities Available Through the AIUM

Postgraduate Courses
May 19–20, 2007
Ultrasound in Reproductive Medicine and Infertility
Renaissance Chicago Hotel
Chicago, Illinois

July 13–14, 2007
Hands-on Musculoskeletal Ultrasound: Diagnostic and Interventional Techniques
Mayo Clinic and the Kahler Grand Hotel
Rochester, Minnesota

CME Video Programs
CME video programs are available on a variety of ultrasound topics. To view or purchase any of these programs, visit the AIUM Resource Center in the Fifth Floor Foyer, just outside the Exhibit Hall.

Journal of Ultrasound in Medicine (JUM) CME Tests
Earn 2 or 3 CME credits every month through self-study tests in each issue of the JUM.
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Disclosure Details</th>
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<tbody>
<tr>
<td>Abramowicz, Jacques, MD</td>
<td>Philips Medical Systems: consultant</td>
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<td>Abruzzo, Todd, MD</td>
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<td>Abutahamid, Alfred, MD</td>
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<td>Abu-Yousef, Monzer, MD</td>
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<td>Acat, Murat, MD</td>
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<td>Ackerman, Susan, MD</td>
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<td>Adamu, Abdullahi, MD</td>
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<td>Adhikari, Srikar, MD, RDMs</td>
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<td>Adler, Ronald, PhD, MD</td>
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<td>Agarwal, Rajan, MD</td>
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<td>Alexandrou, Andrei, MD, RVT</td>
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<td>Alizad, Aiza, MD</td>
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<td>Arbelle, Philippe, MD, PhD</td>
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<td>Aribittaz, Orlando, MPhil</td>
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<td>Ash, Elizabeth</td>
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<td>Ashkenazi, Shai, PhD</td>
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<td>Avni, Fried, MD, PhD</td>
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<td>Aziz, Muhammad, MD</td>
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<td>Badlour, Ralph, MS, PhD (candidate)</td>
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<td>Bahado-Singh, Ray, MD</td>
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<td>Banerjee, David, MD, RDMs</td>
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<td>Bartowich, Oksana, MD</td>
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<td>Barona, J. Oscar, RDMs</td>
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<td>Barnewolt, Carol, MD</td>
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<td>Beck-Razi, Nira, MD</td>
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<td>Benacerraf, Beryl, MD</td>
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<td>Bennett, Genevieve, MD</td>
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<td>Benson, Carol, MD</td>
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<td>Berkowitz, Richard, MD</td>
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<td>Bhatt, Shweta, MD</td>
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<td>Blaius, Michael, MD, RDMs</td>
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<td>Blanchette Porter, Misty, MD</td>
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<td>Bher, David, MD</td>
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<td>Bluth, Edward, MD</td>
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<td>Boon, Tracy, RDMs, RVT</td>
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<td>Bouffard, J. Antonio, MD</td>
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<td>Bower, John, MD</td>
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<td>Brandon, Catherine, MD</td>
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<td>Breitkopf, Daniel, MD</td>
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<td>Bromiley, Bryan, MD</td>
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<tr>
<td>Brown, Jim, RT, RDMs, RDCS</td>
<td>Philips Medical Systems: employer</td>
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<td>Bruce, Matthew, PhD</td>
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<td>Philips Medical Systems: speaker, employment</td>
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<tr>
<td>Bulac, Dorothy MD</td>
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<td>Burnside, Elizabeth, MD, MPH</td>
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<td>Busse, Raydeen, MD</td>
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<td>Byrne, James, MD</td>
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<td>Cardinal, Ettiene, MD</td>
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<td>Castaneda, Benjamin, MS</td>
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<td>Chandrasekhar, Chitra, MD</td>
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<td>Chaplyginha, Helen, MD</td>
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<td>Chen, Shihao, PhD</td>
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<td>Chien, Rethy, MD</td>
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<td>Chin, Brian, MD</td>
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<td>Chong, Wui, MBBS</td>
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<td>Chopra, Rajiv, PhD</td>
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<td>Church, Charles, PhD</td>
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<td>Copper, John, MD</td>
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**Alternative or "Off-Label" Product Policy**

The AIUM requires anyone who is in a position to control the content of an educational activity, including AIUM officers, board members, committee members, faculty, authors, and AIUM staff, to disclose their endorsement or use of any alternative or "off-label" product and/or treatment technologies. Individuals are advised that they must inform the audience if their articles or presentations include any discussion of off-label product use. AIUM educational activities provide a forum to educate and promote the dissemination of new ideas, but the AIUM does not necessarily endorse the findings or conclusions reported by presenters and authors.

**Brown, Jim, RT, RDMS, RDCS**

Work in progress: matrix array configurations for new clinical applications

**Bulas, Dorothy, MD**

Fetal magnetic resonance imaging

**Forbes, Flemming, PhD**

Option: ultrasound contrast agent; Sonovist: ultrasound contrast agent; Goertz, David, PhD The contrast agents BGA24 and BGA3389: experimental agents provided by Bracco Research (Geneva, Switzerland) for research purposes.

**Halpern, Ethan, MD**

Definity: ultrasound contrast agent; Hindshaw, Louis, MD Ultrasound elastography

**Kalaskas, Orpheus, MD**

Definity: intravascular ultrasound contrast agent

**Konno, Yuko, MD, PhD**

Definity: radiology application; Option: radiology application; Imaging: radiology application

**Lécart, Myriam, Bing**

Prototype stent from Boston Scientific: vascular phantom

**Lee, Wesley, MD**

4-dimensional software volume data analysis; Q-Lab software volume data analysis; Velocity Vector Imaging: software: research for evaluating fetal myocardial function

**Lee, Jiri, MD**

Radiology radio frequency system: prostate ablation

**Muratore, Robert, PhD**

Investigational use of various therapeutic ultrasound devices from a historical perspective

**Wax, Joseph, MD**

17α-hydroxyprogesterone caproate for preterm labor prophylaxis; 17α-hydroxyprogesterone caproate for prevention of preterm delivery

**Wu, Fang, MD, PhD**

Ultrasound-guided high-intensity focused ultrasound (HIFU) device [IC HIFU system; HAIFU Technology Co., Ltd, Chongqing, China] used for clinical investigation
AIUM Welcomes Medical Students, Residents, Fellows, and Sonography Students

Each year, the AIUM invites students from the local area to attend the Annual Convention with the purpose of exposing them to the larger ultrasound community and get a taste of what it is like to attend a professional conference. Throughout the day, students are encouraged to sit in on courses, scientific sessions, and film panels and explore the Exhibit Hall. All Student Day participants will wear a gold ribbon; please take a moment to introduce yourself and welcome them to the AIUM!

New This Year for Medical Students Only

Introductory ultrasound course, “Diagnostic Ultrasound From Head to Toe: An Introduction,” designed specifically for invited medical students from local medical schools.

The course will provide an introduction to the most basic aspects of ultrasound use and physics. The course was organized by AIUM Past President Peter Arger, MD, who chaired a pilot program at the University of Pennsylvania School of Medicine. The AIUM believes that the exposure to ultrasound should begin in medical schools as part of their curriculum or as an elective course.

Medical students from New York Medical College, Cornell University, Columbia University, New York University, Mount Sinai, and State University of New York at Stony Brook have been invited to attend this course. The students will attend the course in the morning, followed by the opportunity to sit in on scientific and categorical courses, view poster exhibits, and walk through the Exhibit Hall.

Course participation is limited to invited, preregistered medical students.

Thank you to Dr Arger for organizing this valuable course and to the esteemed faculty for their efforts.
Thursday, March 15
Preconvention Program

Schedule at a Glance

6:30 AM–5:45 PM  Registration Open
7:00 AM–8:00 AM  Preconvention Breakfast
7:30 AM–5:30 PM  Sonographic Evaluation of the Critically Ill and Injured Patient
8:00 AM–12:00 PM  Three-Dimensional Ultrasound in Obstetrics: How to Use It Diagnostically
8:00 AM–12:00 PM  First-Trimester Risk Assessment for Aneuploidy
8:00 AM–12:00 PM  Technical Standards Committee Meeting
8:00 AM–5:00 PM  Vascular Ultrasound
8:00 AM–5:00 PM  AIUM Practice Guidelines for Musculoskeletal Ultrasound: Upper and Lower Extremities
12:00 PM–1:00 PM  Annual Convention Committee Meeting
1:00 PM–5:00 PM  Doppler Ultrasound of the Fetus
1:00 PM–5:00 PM  First-Trimester Congenital Anomalies
1:30 PM–9:00 PM  Professional Interest Section Meetings
2:00 PM–8:00 PM  Bioeffects Committee Meeting
8:00 PM–10:00 PM  Presidential Reception for New Members and Leadership (by invitation only)
7:00 AM–8:00 AM  
**Preconvention Course Breakfast**

Preconvention course breakfasts will be served outside of each room.

7:30 AM–5:30 PM  
**Soho/Herald Complex**

**Sonographic Evaluation of the Critically Ill and Injured Patient**

Course Chairs: Christopher Moore, MD, RDMS, RDCS, and Michael Blaivas, MD, RDMS

**Morning Session: Sonography in Hypotension and Shock**

Shock, either with or without overt hypotension, is a critical emergency. Sonography can be invaluable in quickly evaluating causes of shock. This session will begin with an overview of types of shock and how ultrasound can be used in an algorithmic approach to quickly rule in and rule out treatable etiologies. It will focus on the noninvasive evaluation of preload, both in volume-depleted and volume-overloaded states; identifying sources of hemorrhagic shock; cardiac evaluation in hypotension; and sonography in sepsis and distributive shock. The session will conclude with faculty case presentations regarding the utility of ultrasound in clinical scenarios.

**Afternoon Session: Sonography in the Dyspneic Patient**

Dyspnea and respiratory failure are common, potentially life-threatening presentations with many potential etiologies, most of which may be aided by focused bedside sonography. This session will begin with an algorithmic approach using sonography in evaluating the patient with shortness of breath. Close attention will be paid to evaluation and management of pleural fluid; evaluating the pleura for pneumothorax and wet lung; cardiac evaluation in acute dyspnea; and lower extremity evaluation for deep venous thrombosis. The session will conclude with faculty case presentations regarding the utility of ultrasound in clinical scenarios involving dyspneic patients.

**Faculty**

Christopher Moore, MD, RDMS, RDCS  
Michael Blaivas, MD, RDMS  
David Bahner, MD  
Anthony Dean, MD  
David Feller-Kopman, MD  
James Hwang, MD  
Paul Mayo, MD  
Robert McNamara, MD  
Paul Sierzinski, MD, RDMS  
Anthony Weekes, MD, RDMS

8:00 AM–12:00 PM  
**Astor Ballroom**

**Three-Dimensional Ultrasound in Obstetrics: How to Use It Diagnostically**

Course Chair: Dolores Pretorius, MD

The objective of this course is to demonstrate how to use 3-dimensional (3D) ultrasound in a clinical practice to improve diagnostic interpretation of studies. The diagnostic use of multiplanar imaging, surface rendering, matrix transducers, and inversion techniques will be reviewed. Participants will also learn ways to teach 3D techniques and about safety.

**Faculty**

Dolores Pretorius, MD  
Alfred Abuhamad, MD  
Deborah D’Agostini, MD  
Jimmy Espinoza, MD  
Luís Gonçalves, MD  
Thomas Nelson, MD
First-Trimester Risk Assessment for Aneuploidy
Course Chair: Steven Warsof, MD

Following this course, attendees will understand the meaning of screening tests and the various strategies for first- and second-trimester risk assessment for Down syndrome and trisomy 18 using a combination of ultrasound markers, including nuchal translucency measurement and serum analytes. The results of the BUN (First-Trimester Maternal Serum Biochemistry and Fetal Ultrasound Nuchal Translucency Screening) and FASTER (First- and Second-Trimester Evaluation of Risk) trials will be reviewed. Participants of this course will also qualify for the educational requirements for the Nuchal Translucency Quality Review Program, www.NTQR.org.

Faculty
Steven Warsof, MD  Mary D’Alton, MD
Beryl Benacerraf, MD  Lawrence Platt, MD
Richard Berkowitz, MD

Vascular Ultrasound
Course Chair: Beatrice Madrazo, MD, RVT

Morning Session: Protocols and Accreditation
Afternoon Session: Carotid Sonography

At the completion of this course, participants will be able to understand basic principles of vascular ultrasound, normal and abnormal spectral waveforms, and diagnostic criteria for vascular disease at different sites and will also be able to recognize the need for standardized protocols and the importance of laboratory accreditation. The course will be organized into several modules covering topics that include protocols and accreditation, carotid ultrasound, venous ultrasound, peripheral arterial ultrasound, and abnormal ultrasound.

Faculty
Beatrice Madrazo, MD, RVT
Phillip Bendick, PhD, RVT
M. Robert De Jong, RDMS, RDCS, RVT
Leslie Scoutt, MD

AIUM Practice Guidelines for Musculoskeletal Ultrasound: Upper and Lower Extremities
Course Chair: Marnix van Holsbeeck, MD

Session I: AIUM Practice Guidelines for Musculoskeletal Ultrasound: Upper Extremity
Session II: AIUM Practice Guidelines for Musculoskeletal Ultrasound: Lower Extremity

At the conclusion of this course, participants should be able to apply AIUM and ACR Practice Guidelines for Musculoskeletal (MSK) Ultrasound for upper and/or lower extremity ultrasound; list requirements for standard diagnostic and therapeutic ultrasound studies on bones and joints; and execute correct patient positioning and maneuvers used for standardized MSK examinations.
Doppler Ultrasound of the Fetus
Course Chair: Greggory DeVore, MD

This course will describe the current use of Doppler ultrasound for evaluation of the low- and high-risk fetus. Topics that will be covered include first-trimester evaluation of the fetus for aneuploidy; the use of uterine, umbilical, middle cerebral, and venous Doppler to identify the fetus at risk for abnormal fetal growth; and the use of Doppler for evaluating fetuses with congenital heart disease and twin-to-twin transfusion.

Faculty
Greggory DeVore, MD
Ahmet Baschat, MD
Jack Rychik, MD

First-Trimester Congenital Anomalies
Course Chair: Ilan Timor, MD

Prenatal diagnosis is slowly moving into the first trimester. The introduction of first-trimester screening using measurements of the nuchal translucency (NT) opens an opportunity to widen our insight into other aspects of fetal health.

This course deals with the feasibility of performing anatomy scans between 12 and 14 weeks at the time of the NT measurements. The faculty will explore issues of multifetal pregnancies, placental abnormalities, and the controversial issues of cystic hygroma. Ample time will be set aside for interaction with the audience.

Faculty
Ilan Timor, MD
Ana Monteagudo, MD
Lynn Simpson, MD

Presidential Reception for New Members and Leadership

8:00 PM - 10:00 PM
JW Marriott Suite • 43rd Floor

This event is by invitation only.
Supported by SonoSite.
Friday, March 16, 2007

Get a jump start on your St Patty’s Day celebration at the AIUM’s Opening Reception on Friday night from 5:30 PM–7:30 PM. Stop by the Exhibit Hall to enjoy an Irish evening of green beer, wine, carving stations, and much more.

Saturday, March 17, 2007

Morning Break—Begin St Patty’s Day with a taste of the Irish. Hot coffee, Irish soda rolls, and a variety of cheeses will be served in the Exhibit Hall from 9:30 AM–10:30 AM.

Lunch—No need to go any farther for lunch; that New York hot dog stand is right inside the Exhibit Hall waiting for you. Stop by on your lunch break for hot dogs, chips, and soda and to browse the exhibits from 12:15 PM–1:15 PM.

Afternoon Break—Got the afternoon munchies? Satisfy your cravings with delicious Häagen-Dazs ice cream bars, served in the Exhibit Hall from 3:30 PM–4:30 PM.

Sunday, March 18, 2007

Morning Break—Need a boost to get your day going? No need to stop by the local coffee shop; just visit the Exhibit Hall to get your caffeine fix from 10:15 AM–11:15 AM.

Bid Farewell to 2007 and on to 2008—Munch on hot dogs, chips, and popcorn while bidding farewell to your fellow attendees from 12:30 PM–1:30 PM. Look forward to next year’s AIUM Annual Convention, to be held in San Diego, California, March 12–15, 2008.
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<th>Time</th>
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<tr>
<td>6:30 AM–4:15 PM</td>
<td>Registration Open</td>
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<td>7:00 AM–8:00 AM</td>
<td>Meet-the-Professor Sessions</td>
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<td>7:00 AM–8:00 AM</td>
<td>Finance Committee Meeting</td>
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<td>8:00 AM–9:30 AM</td>
<td>Executive Committee Meeting</td>
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<td>8:15 AM–9:45 AM</td>
<td>Categorical Courses</td>
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<td>8:15 AM–9:45 AM</td>
<td>Hands-on Course: Interventional Ultrasound-Guided Biopsies</td>
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<td>10:00 AM–11:30 AM</td>
<td>Scientific Sessions</td>
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<td>10:00 AM–11:30 AM</td>
<td>Just Images Session: Obstetric and Gynecologic Ultrasound</td>
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<td>10:00 AM–12:00 PM</td>
<td>Continuing Medical Education Committee Meeting</td>
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<td>11:45 AM–12:45 PM</td>
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<td>Categorical Courses</td>
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<td>Hands-on Course: Ultrasound-Guided Procedures</td>
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<td>Endowment for Education and Research Committee Meeting</td>
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<td>3:30 PM–5:30 PM</td>
<td>Plenary Session: Awards and Entertainment</td>
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<td>5:30 PM–7:30 PM</td>
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7:00 AM–8:00 AM
Meet-the-Professor Sessions
Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 66.

FA1 Volume Sonography: A New Era in Efficiency and Diagnosis, Including Fetal Anomalies
Beryl Benacerraf, MD
Ziegfeld

FA2 The 14- to 16-Week Anatomic Survey
Ana Monteagudo, MD
O’Neill

FA3 Diagnosis of Fetal Anemia With Doppler Ultrasound
Giancarlo Mari, MD
Brecht

FA4 Imaging of the Pediatric Liver and Biliary Tree
Harriet Paltiel, MD
Wilder

FA5 Scrotal Ultrasound Update
Thomas Winter, MD
Odets

8:15 AM–9:45 AM
Categorical Courses
Seven concurrent in-depth courses presented by top experts in the field are conducted during this period.

Doppler Ultrasound in Pregnancy: Past, Present, and Future
Moderator: Giancarlo Mari, MD
Broadway Ballroom North
This course will include an audience response system.

At the end of this course, participants will be able to describe the current status of knowledge on the changes that occur in the fetal circulation of appropriate-for-gestational-age and intrauterine growth-restricted (IUGR) fetuses, as well as the criteria used for the diagnosis of fetal anemia with Doppler ultrasonography. Participants will be able to understand whether 3- and 4-dimensional ultrasonography is useful in the assessment of the fetal circulation and whether Doppler ultrasonography might be helpful in timing delivery of IUGR fetuses.

8:15 AM–8:35 AM  Doppler Ultrasound Imaging: Past, Present, and Future of Doppler in Obstetrics
J. Oscar Barahona, BS, RDMS

8:35 AM–8:55 AM  The Diagnosis of Fetal Anemia With Doppler Ultrasonography: A Brief Overview
Giancarlo Mari, MD

8:55 AM–9:15 AM  Arterial and Venous Doppler in Intrauterine Growth-Restricted Fetuses: What Have We Achieved?
Ray Bahado-Singh, MD

9:15 AM–9:35 AM  Arterial and Venous Doppler in Intrauterine Growth-Restricted Fetuses: Where Are We Going?
Giancarlo Mari, MD

9:35 AM–9:45 AM  Questions and Answers
Early Pregnancy Complications
Moderator: Sherelle Laifer-Narin, MD
Shubert Complex
This course will cover the spectrum of early complications, including threatened and spontaneous abortion, ectopic pregnancies, adnexal masses, pregnancies of unknown location, hemorrhage, and gestational trophoblastic disease. Normal sonographic milestones of the first trimester need to be recognized, as well as understanding of laboratory values and changes occurring in serum human chorionic gonadotropin. The correlation between serum progesterone levels and resolution of a pregnancy will also be discussed.

8:15 AM–8:40 AM Chest Ultrasound for Extravascular Lung Water: Data From Nepalese in High-Altitude Pulmonary Edema
Vicki Noble MD, RDMS

8:40 AM–9:05 AM Right Upper Quadrant Ultrasound: What Is Normal, Abnormal, and Pitfalls
Michael Osborne, MD

9:05 AM–9:45 AM Sonographic Assessment of First-Trimester Emergencies
Sherelle Laifer-Narin, MD

Fetal and Newborn Neurosonography
Moderator: Judy Estroff, MD
Soho/Herald Complex
Neurosonography identifies many central nervous system anomalies both in fetuses and in newborns. Newborn cranial neurosonography is standard for premature and sick newborns because it is noninvasive, portable, and provides a detailed glimpse of the structure and condition of the brain. Postnatal imaging is often performed in the first 48 hours of life, at 5 to 7 days of age, and then again at 4 to 6 weeks of age. Many congenital brain malformations, intracranial hemorrhage, and white matter damage can readily be detected sonographically. However, there are limitations to what can be seen sonographically. This course will review the common fetal structural brain malformations, intracranial hemorrhage, and white matter disease, as well as concentrate on the abnormal newborn neurosonogram. At the end of the course, attendees will learn what neuroimaging information the pediatric neurologist needs to know about fetuses and newborns and how they try to determine the prognosis for these infants.

8:15 AM–8:35 AM The Abnormal Newborn Cranial Ultrasound
Beth Kline-Fath, MD

8:35 AM–8:55 AM Congenital Brain Anomalies: Prenatal Imaging With Postnatal Outcomes
Carol Barnewolt, MD

8:55 AM–9:15 AM Tumors and Tumorlike Conditions in the Fetal Central Nervous System
Fred Avni, MD

9:15 AM–9:45 AM Newborn Neuroimaging: What the Pediatric Neurologist Wants to Know
Janet Soul, MD
Prenatal Detection of Congenital Heart Disease: Clinical and Medical-Legal Implications
Moderator: Greggory DeVore, MD
Broadway Ballroom South
This course will review the clinical aspects and decision considerations for the diagnosis and treatment of fetal patients with congenital heart disease. A strategy for performing a screening fetal echo examination in routine clinical practice will be given, including structure visualization, expectations for each time frame, and how to optimize image quality for diagnostic purposes. Review of the medical-legal implications of congenital heart disease will be given.

8:15 AM–8:55 AM  Prenatal Detection of Congenital Heart Disease: Clinical Implications
Mark Sklansky, MD

8:55 AM–9:35 AM  Prenatal Detection of Congenital Heart Disease: Medical-Legal Implications
Greggory DeVore, MD

9:35 AM–9:45 AM  Questions and Answers

Sonography of Breast Disease
Moderator: Susan Ackerman, MD
Astor Ballroom
The goals of this course are to equip the participant with techniques for differentiating benign from malignant masses, as well as for the evaluation of other breast abnormalities. There will also be discussion of new techniques in the assessment of breast disease.

8:15 AM–8:45 AM  Ultrasound Evaluation of Breast Masses
Elizabeth Burnside, MD

8:45 AM–9:15 AM  Ultrasound of Non-Neoplastic Conditions of the Breast
Susan Ackerman, MD

Mary Scott Soo, MD

Therapeutic Ultrasound
Moderators: Thomas Szabo, PhD, and Mark Schafer, PhD
Marquis Ballroom
This course is an introduction to the principles and latest developments in therapeutic ultrasound.

8:15 AM–8:33 AM  High-Intensity Focused Ultrasound: The Whys and Wherefores
Gail ter Haar, MA, DSc, MSc, PhD

8:33 AM–8:51 AM  Clinical Experiences With Ultrasound-Guided High-Intensity Focused Ultrasound for Tumor Ablation
Feng Wu, MD

8:51 AM–9:09 AM  A History of Therapeutic Ultrasound Devices
Robert Muratore, PhD

9:09 AM–9:27 AM  Multichannel Systems for Transbone High-Intensity Focused Ultrasound and Respiratory Motion Corrections
Mickael Tanter, PhD

9:27 AM–9:45 AM  Guiding and Monitoring of High-Intensity Focused Ultrasound Ablation
Naomi Miller, MD
Hands-on Interventional Ultrasound-Guided Biopsies

Moderator: Vikram Dogra, MD

Empire Complex

In this course, participants will be exposed to the optimum ways to set up biopsies and avoid potential complications and will also be exposed to treatment options when biopsy complications occur. Hands-on scanning opportunities will be provided with phantoms, needles, and needle guides on a variety of machines with applications to thyroid, chest, and abdominal biopsies, including liver, renal, pancreas, and deep abdominal and pelvis targets. (Advance registration is required.)

8:15 AM–8:25 AM
Ultrasound-Guided Biopsy
Jill Brewer, BS, RDMS

8:25 AM–8:35 AM
Management of Postbiopsy Complications
Wael Saad, MBBCh

8:35 AM–9:45 AM
Hands-on Session

10:00 AM–11:30 AM
Scientific Sessions

Six concurrent sessions, each including 7 presentations on the latest ultrasound research, are offered during this period.

Abdominal Ultrasound

Moderators: Monzer Abu-Yousef, MB, Bch, ABR, and Audrey Fleming, RDMS, RVS

Astor Ballroom

10:00 AM–10:12 AM
Comparing Hepatic Fundamental, Tissue Harmonic, and Differential Tissue Harmonic Imaging
Chiou, See-Ying; Forsberg, Flemming*; Fox, Traci B.; Needleman, Laurence

10:12 AM–10:24 AM
Real-time 3-Dimensional Ultrasonography (4D-US) and Contrast 4D-US in Radio Frequency Ablation of Liver Tumors
Yamada, Masahiko*; Sugimoto, Katsutoshi; Metoki, Ryou; Taia, Junichi; Furuchi, Yoshhiro; Miyahara, Takeo; Imai, Yasuhiro; Nakamura, Ikuo; Iijima, Hiroko; Moriyasu, Fuminori

10:24 AM–10:36 AM
Late Complications After Laparoscopic Positioning of an Adjustable Gastric Banding System: Ultrasound Findings
Francica, Giampiero*; Giardiello, Cristiana; Iodice, Giuseppe; Lapiccirella, Gaetano; Cristiano, Stefano; Scarano, Ferdinando; Delle Cave, Massimo; Molese, Valerio

10:36 AM–10:48 AM
Transabdominal Sonography of Peptic Ulcer Disease in Adults
Vo, Tai Anh*; Pham, Toan Chi; Phan, Hai Thanh

10:48 AM–11:00 AM
Ultrasound Detection of the Normal Appendix: Does the Combination of Real-time Spatial Compounding and Tissue Harmonic Imaging Make a Difference?
Scott, Ted E.*; Swan, Hans; Jurriains, Eric; Voss, Maurice
11:00 AM–11:12 AM
296730 Primary Epiploic Appendagitis: Clinical, Ultrasound, and Computed Tomographic Findings in 15 Cases
Vo, Tai Anh*; Le, Tai Van; Phan, Hai Thanh

11:12 AM–11:24 AM
296470 Impact of Ultrasound Contrast Media on Clinical Radiology Practice in the USA: Update
Kono, Yuko*; Hassanein, Tarek; Alpert, Elliot; Amer, Mohamed; Mattrey, Robert F.

Bioeffects and Image Processing
Moderators: Charles Church, PhD, and Chandra Sehgal, PhD
Marquis Ballroom

10:00 AM–10:12 AM
295766 Evaluation of Thresholds for Ultrasound-Induced Lung Hemorrhage and a Proposal for a Lung-Specific Mechanical Index
Church, Charles C.*; O’Brien, William D.

10:12 AM–10:24 AM
295427 Glomerular Capillary Hemorrhage Induced in Rats by Ultrasound Flash Echo Imaging With a Contrast Agent
Miller, Douglas*; Dou, Chunyan; Wiggins, Roger

10:24 AM–10:36 AM
295755 A Proposal to Resolve a Conceptual Error in the Thermal Index Displayed on Diagnostic Ultrasound Machines
Church, Charles C.

10:36 AM–10:48 AM
296379 Segmentation of Carotid Walls in Ultrasonic B-mode Images
Destrempes, François*; Meunier, Jean; Maurice, Roch L.; Soulez, Gilles; Cloutier, Guy

10:48 AM–11:00 AM
297276 Noninvasive Real-time Imaging of Atherosclerosis Using Ultrasound Biomicroscopy in ApoE−/− Mice Exposed to Subchronic Environmental Tobacco Smoke
Quan, Chunli*; Li, Qiang; Jin, Ximei; Zhong, Mianhua; Wang, Aixia; Sun, Qinghua; Chen, Lung Chi

11:00 AM–11:12 AM
295456 Volumetric Elasticity Imaging With a 2-Dimensional Capacitive Micromachined Ultrasonic Transducer Array
Fisher, Ted G.; Hall, Timothy J.*; Jiang, Jingfeng; Panda, Satchi; Barnes, Steve; Resnick, Jeff; Madsen, Ernest L.

11:12 AM–11:24 AM
296504 Automatic Registration and Fusion of Ultrasound Imaging and Positron Emission Tomography for Improved Diagnosis of Gynecologic Cancer
Fei, Baowei*; Azar, Nami; Greer, Michael; Rochon, Paul J.; Faulhaber, Peter
Comparison of Extended Field-of-View and Dual-Image Ultrasound Techniques for Size Measurements in an Enlarged Thyroid Gland
Turgut, Ahmet T.*; Coskun, Zafer U.; Kismet, Kemal; Kosar, Pinar; Geyik, Pinar O.; Kosar, Ugur

Evaluation of Thyroid Nodules With Gray Scale Ultrasound, Color Doppler Imaging, and Elastography: Preliminary Results
Feld, Rick*; Merton, Daniel; Fukunari, Nobuhiro; Ishikawa, Kumi; Yucel, Cem; Forsberg, Flemming

Sonographic Diagnosis of Thyroid Cancer Using Quantitative Analysis of Tumor Vascularity
Lyshchik, Andrej; Morrison, Robert S.*; Barnes, Stephanie L.; Miga, Michael I.; Fleischer, Arthur C.

Functional Imaging of Apoptosis in Tumors With High-Frequency Ultrasound Imaging and Spectroscopy
Chu, William; Kolios, Michael; Czarnota, Gregory J.*

Coronal Axis Versus Visual Axis Measurements of Optic Nerve Sheath Diameter
Blehar, David J.*; Montoya, Anthony; Dickman, Eitan; Gaspari, Romolo

Anthropomorphic Uterus Phantoms for Testing Elastography Systems
Hobson, Maritza*; Frank, Gary R.; Varghese, Tomy; Jiang, Jingfeng; Shi, Hairong; Madsen, Ernest L.

Realistic Intravascular Ultrasound (IVUS) Phantoms
Stiles, Timothy*; Waters, Kendall; Frank, Gary R.; Madsen, Ernest L.

Modeling of Nonlinear Propagation in a Tissue-Mimicking Liquid
Stiles, Timothy
10:36 AM–10:48 AM
296654 Noninvasive Quantification of Elasticity and Viscosity for Liver Fibrosis Staging
Chen, Shigao*; Greenleaf, James F.

10:48 AM–11:00 AM
296907 A Model of Distributed Phase Aberration for Deblurring Phase Estimated From Scattering
Tillet, Jason C. *; Astheimer, Jeffrey P.; Waag, Robert C.

11:00 AM–11:12 AM
296765 Early Experience With an Implantable Flow Sensor for Bypass Graft Surveillance
Rotella, Vittorio*; Biebee, John; Choudry, Rashad; Salvatore, Michael; Kelly, Patrick; Soundararajan, Krish; Chilipka, Tom; Villkemerson, David

11:12 AM–11:24 AM
297264 Multimodality Imaging: Simultaneous Ultrasound and Magnetic Resonance Imaging
Curied, Laura*; Chopra, Rajiv; Hynynen, Kullervo

Obstetrics: Uterus, Placenta, and Cervix
Moderators: Wesley Lee, MD, and Tracy Anton, BS, RDMS
Broadway Ballroom South

10:00 AM–10:12 AM
295770 Translabial Cervical Ultrasound in Women With Preterm Premature Rupture of Membranes: Can It Be Used to Predict Latency Period or Infection?
Fischer, Richard L.*; Austin, Julian D.

10:12 AM–10:24 AM
283729 Prenatal Diagnosis of Placenta Accreta: Ultrasound Versus Magnetic Resonance Imaging.
Dwyer, Bonnie K.*; Belogolovkin, Victoria; Tran, Lan; Rao, Anjali; Carroll, Ian; Barth, Richard; Chitkara, Usha

10:24 AM–10:36 AM
297244 Placenta Accreta: Utility of Ultrasonography and Magnetic Resonance Imaging and Pathologic Correlation
Parra, G. Jesus*; Serrano, Saray; Vergara, Felipe; Diaz-Yunez, I.; Spath, Alfonso; De Nubbila, Eduardo

10:36 AM–10:48 AM
298227 Diffusion-Weighted Magnetic Resonance Imaging of the Human Placenta
Lee, Wesley*; Kapadia, Kevin; Shetty, Anil; Gonçalves, Luis F.; Espinoza, Jimmy; Romero, Roberto

10:48 AM–11:00 AM
278750 Three-Dimensional Doppler of the Placenta and Spiral Arteries: Influence of Maternal Age and Parity
Zalu, Ivica*; Shaha, Steven

11:00 AM–11:12 AM
301282 Three-Dimensional Ultrasound in the Diagnosis and Management of Vasa Previa
Mastrolia, Ricardo*; Oyelese, Yinka; Chavez, Martin; Kaminsky, Lillian; Natt, Carl; Smulian, John

11:12 AM–11:24 AM
283127 Longitudinal Color Doppler Measurements of Uterine Artery Blood Flow in Relation to Spiral Artery Blood Flow
Deurloo, Koen*; Bolte, Annemieke; Spreeuwenberg, Marieke; van Vugt, John
Pediatrics

Moderators: Sara O’Hara, M.D., Janet Adams, RVT, RDMS, CNMT, RT, and Michelle Gramke, RT, RDMS

Shubert Complex

10:00 AM – 10:12 AM
297214 Neonatal Findings of Fusion of the Forniceal Columns and Absent Cavum Septum Pellucidum
Glanc, Phyllis*; O’Connor, Sean; Blaser, Susan L.; Asztalos, Elizabeth; Raybaud, Charles

10:12 AM – 10:22 AM
Mangrulkar, Vaibhav*; Cohen, Harris L.

10:22 AM – 10:34 AM
294562 Characteristic Sonographic Hepatic Lesion in Neonates With Umbilical Venous Catheter Erosion
Lim-Dunham, Jennifer*; Capitano, Holly; Vade, Aruna; Muraskas, Jonathan

10:34 AM – 10:44 AM
298953 Lipoprotein Lipase Deficiency in an Infant Presenting as Renal and Pancreatic Masses (CR)
Bellah, Richard; Servaes, Saba*; Pawal, Bruce; Verma, Ritu

10:44 AM – 10:56 AM
289372 The Predictability of Vesicoureteral Reflux in Children Using Interlobar Renal Resistive Indices of Sonographically Normal Kidneys
Amodio, John; Stepansky, Flora*; Rivera, Raphael; Pinkney, Lynne; Strubel, Naomi; Fefferman, Nancy

10:56 AM – 11:08 AM
297306 Vesicoureteral Reflux Mimicking Hydrocolpos
Snyder, Emma*; Nguyen, Rochelle; Young, Keli; Coley, Brian D.

11:08 AM – 11:20 AM
292794 Dynamic Sonography of the Infant Clubfoot: Correlation of Foot Abduction With Sonographic Measurements
DiPietro, Michael A.*; Little, Milton; Kuhns, Lawrence R.; Koujoc, Khaledoun; Caird, Michelle; Craig, Clifford L.; Robertson, Brian

10:00 AM – 11:30 AM
Just Images Session: Obstetric and Gynecologic Ultrasound

This course will include an audience response system.

Participants discuss and view unique obstetric and gynecologic ultrasound cases.

Rochelle Andreotti, M.D.; Lawrence Mason, M.D.; Jill Herzog, RDMS; Marily Davis, RDMS, and Juliana Leite, M.D.
11:45 AM–12:45 PM  
**Meet-the-Professor Sessions**

Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 66.

**FP1**  
Nonchromosomal Significance of Elevated First-Trimester Nuchal Translucency  
Ray Bahado-Singh, MD  
O’Neill

**FP2**  
Ultrasound Evaluation of Fetal Cardiac Function  
Gregory DeVore, MD  
Ziegfeld

**FP3**  
Ultrasound of the Gallbladder and Bile Ducts: A Logical Approach  
Suhas Parulekar, MD  
Wilder

**FP4**  
Three-Dimensional Ultrasound in the Abdomen: Technology, Applications, and Work Flow  
Franklin Tessler, MD, CM  
Brecht

**FP5**  
Avoiding Pitfalls in Obstetric Ultrasound  
Carolyn Zelop, MD  
Odets

1:45 PM–3:15 PM  
**Categorical Courses**

Seven concurrent in-depth courses presented by top experts in the field are conducted during this period.

**Big Problems From Small Parts**  
Moderator: Sara O’Hara, MD  
Gramercy/Olmstead

Attendees of this course will develop strategies for evaluating lumps, bumps, and sources of pain outside the abdomen in pediatric patients. Scanning techniques, tips from the experts, and differential diagnoses will all be discussed.

1:45 PM–2:15 PM  
Pediatric Neck  
Lynn Fordham, MD

2:15 PM–2:45 PM  
Big Problems From Small Parts: Pediatric Breast  
Sara O’Hara, MD

2:45 PM–3:15 PM  
Ultrasound in the Evaluation of the Pediatric Scrotum  
Harris Cohen, MD
Hybrid Imaging Technologies Involving Ultrasound

Participants of this course will be exposed to (1) emerging novel imaging and sensing technologies combining ultrasound and other signal sources; (2) the unique advantages of these hybrid imaging modalities over traditional imaging technologies; and (3) the current development of these technologies and their potential future applications in the clinic.

1:45 PM–2:00 PM
Ultrasound-Guided Diffusive Wave Optical Tomography for Breast Cancer Diagnosis and Chemotherapy Treatment Monitoring
Quing Zhu, PhD

2:00 PM–2:15 PM
Ultrasound Imaging With Photoacoustic Image Overlay (USPA): Application to Cancer Diagnosis
Shai Ashkenazi, PhD

2:15 PM–2:30 PM
The Application of a Photoacoustic Imaging Technique in Inflammatory Arthritis
Xueding Wang, PhD

2:30 PM–2:45 PM
Ultrasound Vibration Potential Imaging and Ultrasound-Modulated X-ray Phase Contrast Imaging
Gerald Diebold, PhD

2:45 PM–3:00 PM
Magnetic Resonance Elastography: Update
Richard Ehman, MD

Managing Today’s Sonography Practice

Managing Today’s Sonography Practice
Moderator: Diana Strickland, BS, BA, RDMS, RDCS

Soho/Herald

This session will cover sonography practice management issues that remain a challenge for managers, such as justifying new equipment and retaining staff. Participants will be informed about emerging changes to the practice of ultrasound, such as how volume imaging will change workload management, and be updated on advanced practice sonography.

1:45 PM–2:05 PM
Volume Imaging Protocol
John Moreland, RDMS, RT(R)(CT), RVS

2:05 PM–2:25 PM
Cost Analysis and Equipment or Employee Justification
Diana Strickland, BS, BA, RDMS, RDCS

2:25 PM–2:45 PM
Employee Retention and Satisfaction
M. Robert De Jong, RDCS, RDMS, RVT

2:45 PM–3:05 PM
Advanced Practice Sonography Update
Eric Meaders, MAED, RDMS, RVT

3:05 PM–3:15 PM
Questions and Answers
The Intellectual Process and the Tools to Diagnose Congenital Anomalies: A Practical Approach Using Real Cases
Moderator: Philippe Jeanty, MD
Broadway Ballroom North

This course will include an audience response system.

After completion of this course, participants should be able to recognize difficult diagnoses based on ultrasound findings and be able to discuss differential diagnoses. The presenters will discuss how to put the findings together, do a recursive search for other findings, use the Online Mendelian Inheritance in Man database, and do a careful description of the anomalies to achieve a correct set of differential diagnoses.

1:45 PM–2:07 PM  Finding the Findings
Pilar Prats, MD

2:07 PM–2:29 PM  Identifying the Most Significant Findings
Frantisek Grochal, MD

2:29 PM–2:51 PM  Searching Databases and the Web
Juliana Leite, MD

2:51 PM–3:15 PM  Putting It All Together
Philippe Jeanty, MD, PhD

Ultrasound in Infertility: State of the Art, 2007
Moderator: Misty Blanchette Porter, MD
Broadway Ballroom South

Ultrasonography is integral in the evaluation and treatment of the infertile couple. A baseline ultrasound study and saline infusion sonohysterogram may reveal the etiology and fertility potential, as well as direct surgical correction. Ultrasound is key in follicular monitoring, oocyte retrieval, embryo transfer, and early pregnancy monitoring. The objective of this course is to improve general knowledge of the use of ultrasound as a tool in infertility.

1:45 PM–1:50 PM  Introduction
Misty Blanchette Porter, MD

Elizabeth Puscheck, MD

2:25 PM–3:00 PM  Making Sense of Ultrasound in Infertility Treatment: It’s Not Just About Follicles
Misty Blanchette Porter, MD

3:00 PM–3:15 PM  Questions and Answers
Ultrasound of Nerve Entrapment
Moderator: Carlo Martinoli, MD

Shubert Complex
At the completion of this course, participants should be able to discuss the location of the most common nerve entrapments, explain the advantages of using ultrasound-guided techniques for diagnosis, identify the topographic and cross-sectional carpal and tarsal tunnel anatomy, and demonstrate techniques for ultrasound diagnosis of common tunnel syndromes.

1:45 PM–1:55 PM
Why Use Ultrasound to Diagnose Entrapment
Donald Ditmars, Jr, MD

1:55 PM–2:25 PM
Upper Extremity Entrapment
Carlo Martinoli, MD

2:25 PM–2:40 PM
Diagnosing Carpal Tunnel Disease
Marnix van Holsbeeck, MD

2:40 PM–3:05 PM
Lower Extremity Entrapment
Carlo Martinoli, MD

3:05 PM–3:15 PM
Questions and Answers

Ultrasound-Guided Procedures: A Hands-on Course
Moderator: Christopher Moore, MD

Empire Complex
During this session, the lecturers, as well as additional faculty, will work with course participants using ultrasound phantoms (provided by Blue Phantom Ultrasound Phantoms) to simulate ultrasound-guided procedures. (Advance registration is required.)

1:45 PM–2:05 PM
Ultrasound-Guided Access to Fluid-Filled Spaces in Critically Ill Patients
Christopher Moore, MD, RDMS

2:05 PM–2:25 PM
Case Presentation of Ultrasound in the Dyspneic Patient
Michael Blaivas, MD, RDMS

2:25 PM–3:15 PM
Hands-on Session
Plenary Session:  
Awards and Entertainment  
3:30 PM–5:30 PM  
Broadway Ballroom North

William J. Fry Memorial Lecture and Award

Laboratory Synergism
William O'Brien, Jr, PhD

The William J. Fry Memorial Lecture was established in 1969 to recognize Professor Fry’s significant scientific and engineering ultrasound accomplishments as well as his important AIUM contributions. Professor Fry established the Bioacoustics Research Laboratory (BRL) at the University of Illinois in 1946. The notable accomplishments for which BRL is recognized in those early days of ultrasound were a team effort. A principal team member was William Fry’s brother, Professor Francis (Frank) J. Fry, who joined him at BRL in 1946. The speaker will recount some of Professor Fry’s contributions to BRL in the fields of diagnostic and therapeutic ultrasound. Frank died in September 2005 at the age of 85.

Awards

Joseph H. Holmes Clinical Pioneer and Basic Science Awards

Pioneer Awards
Jonathan Rubin, MD, PhD, Clinical  
Ernest Madsen, PhD, Basic Science

In 1977, the Pioneer Award, which honored an individual who significantly contributed to the growth and development of diagnostic ultrasound, was established. This special award was renamed in 1982 to honor Joseph H. Holmes, MD, Dr Holmes, the first person named as an AIUM pioneer, was an important figure to both the field of diagnostic ultrasound and the AIUM. His early efforts in ultrasound research included tissue characterization and ultrasound’s diagnostic use in polycystic kidney disease and orthopaedics. Each year, the Joseph H. Holmes Pioneer Award honors 2 current or retired AIUM members, 1 in clinical science and the other in basic science.

Distinguished Sonographer Award
Diane Kawamura, PhD, RT(R), RDMS

Established in 1997, the Distinguished Sonographer Award is a means of recognizing and honoring current or retired AIUM members who have significantly contributed to the growth and development of diagnostic ultrasound. This annual presentation honors a sonographer whose outstanding contributions to the development of diagnostic ultrasound warrant special merit.
Honorary Fellow Awards

Leandro Fernandez, MD  Seung Hyup Kim, MD

The Honorary Fellow Award bestows an honorary membership to individuals who have contributed significantly to the field of ultrasound and, in most cases, whose primary residence is outside North America. Criteria include 9 or more years in work related to medical ultrasound, 5 or more publications in refereed journals, exemplary educational accomplishments, and exemplary community, clinical, or organizational service.

Memorial Hall of Fame Awards

Jeanne Cullinan, MD  Francis Fry, BS, MS  Frank Hadlock, MD

Established in 1981, the Memorial Hall of Fame serves as a posthumous tribute to a creative and devoted physician, research scientist, or other individual who has been an active member of the AIUM and contributed to the field of ultrasound in medicine. A plaque honoring each member of the Hall of Fame is displayed in the Executive Office of the AIUM.

Memorial Hall of Fame presentations will take place during sessions named in honor of each awardee.

Endowment for Education and Research Grant Awards

Recipients to be announced.

Entertainment | Forbidden Broadway

The most inviting introduction to the new season on Broadway may well be Gerard Alessandrini’s merciless evisceration of the last one, in the retooled, consistently riotous latest edition of Forbidden Broadway.

— The New York Times

5:30 PM – 7:30 PM

Opening Reception in the Exhibit Hall

Friday, March 16, 2007

Following the Plenary Session, an Opening Reception will be held in the Exhibit Hall, featuring cocktails and hors d’oeuvres. Take this time to interact with colleagues, as well as representatives from leading companies in the ultrasound industry.
beautiful suburban location • free parking • competitive salary and benefits • easy commute • reimbursement for further education • work with the experts

I discovered a place to fulfill my dreams in my career.

My career with St. Joseph Medical Center is everything I was dreaming of. It’s where the experts are. They share my dedication to patient care and they do it in a warm, caring environment where I’m encouraged and supported to develop and add to my professional skills.

I have competitive compensation and benefits, a convenient location and a schedule that allows time to find fulfillment in my life. If you want all this and more, talk with us about turning dreams into reality.

For more information on exciting career opportunities, please visit us online at www.stjosephjobs.org.

Interested candidates can also contact Julia Farrell at 410-337-1000 or JuliaFarrell@catholichealth.net.

perinatal sonographer
(Full-Time and Flex)

St. Joseph Medical Center of Towson, MD, is currently in search of excellent candidates for our Perinatal Sonographer position. In this unique role, you will collaborate with patients, physicians and other departments to create a multidisciplinary health care team that provides continuous and well-coordinated care.

Qualified candidates will need at least one year of experience with RDMS OB/GYN NT and CPR certification.

CATHOLIC HEALTH INITIATIVES

St. Joseph Medical Center
Where the experts are.
**Saturday, March 17**  
**Convention**

### Schedule at a Glance

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<td>6:45 AM–7:45 AM</td>
<td>Meet-the-Professor Sessions</td>
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<td>7:00 AM–8:00 AM</td>
<td><strong>Journal of Ultrasound in Medicine</strong> Editorial and Advisory Board Breakfast</td>
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<td>8:00 AM–9:30 AM</td>
<td>Categorical Courses</td>
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<td>8:00 AM–9:30 AM</td>
<td>Hands-on Course: Musculoskeletal Ultrasound</td>
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<td>8:00 AM–9:30 AM</td>
<td>&quot;Getting Started&quot; Ultrasound Practice Accreditation Workshop</td>
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<tr>
<td>8:30 AM–10:00 AM</td>
<td>Postgraduate Course Committee Meeting</td>
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<tr>
<td>9:30 AM–10:30 AM</td>
<td>Exhibit Hall Open</td>
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<tr>
<td>9:30 AM–10:30 AM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<tr>
<td>10:30 AM–12:00 PM</td>
<td>Scientific Sessions</td>
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<td>10:30 AM–12:00 PM</td>
<td>New Investigator Session</td>
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<tr>
<td>12:15 PM–1:15 PM</td>
<td>Meet-the-Professor Sessions</td>
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<tr>
<td>12:15 PM–1:15 PM</td>
<td>Scientific Poster Discussion</td>
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<td>12:15 PM–1:15 PM</td>
<td>Presidential Advisory Council</td>
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<tr>
<td>12:15 PM–1:15 PM</td>
<td>Lunch Break in Exhibit Hall</td>
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<tr>
<td>1:00 PM–2:30 PM</td>
<td>Membership Committee Meeting</td>
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<td>1:30 PM–3:30 PM</td>
<td>Categorical Courses</td>
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<tr>
<td>1:30 PM–3:30 PM</td>
<td>Hands-on Course: Three-Dimensional Volume Manipulation in Obstetrics and Gynecology—Basic to Advanced Techniques</td>
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<tr>
<td>3:30 PM–4:30 PM</td>
<td>Professional Interest Section Meetings</td>
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<td>3:30 PM–4:30 PM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<tr>
<td>3:30 PM–5:30 PM</td>
<td>Ultrasound Practice Accreditation Committee Meeting</td>
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<tr>
<td>4:30 PM–5:30 PM</td>
<td>Scientific Sessions</td>
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<tr>
<td>4:30 PM–5:30 PM</td>
<td>Just Images Session: Pediatric and Cardiovascular Ultrasound</td>
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<tr>
<td>7:00 PM–11:00 PM</td>
<td>Leadership Banquet and Club AIUM (by invitation only)</td>
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Meet-the-Professor Sessions

Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 66.

SATA1
Analytic Approaches for Volume Sonography
Wesley Lee, MD
O’Neill

SATA2
Coding Issues in Obstetric Ultrasound
Joshua Copel, MD
Ziegfeld

SATA3
Duplex and Color Doppler Evaluation of the Abdominal Vessels
John Pellerito, MD
Odets

SATA4
Surveillance of Chronic Liver Disease: The Role of Sonography
Stephanie Wilson, MD
Wilder

SATA5
Breast Cancer Staging With Sonography
Gary Whitman, MD
Brecht

Categorical Courses

Six concurrent in-depth courses presented by top experts in the field are conducted during this period.

Cervical Sonography and Prematurity: State of the Science
Moderator: Joseph Wax, MD
Broadway Ballroom North

This course will include an audience response system.

The proper technique and pitfalls of transvaginal sonography of the cervix will be reviewed in this course. Possible findings will be described with respect to cervical insufficiency and preterm birth. Assessments and interventions for abnormal cervical ultrasound findings will be discussed. Clinical cases will form the basis for discussions that will include the audience.

8:00 AM–8:20 AM
Cervical Sonography in the Ultrasound Unit: Practical Technique
James Smith, Jr, MD

8:20 AM–8:40 AM
Ultrasound Cervical Assessment and Prematurity Risk
Charles Ingardia, MD

8:40 AM–9:00 AM
The Short Cervix: A Gestational Age-Specific Approach to Assessment and Management
Joseph Wax, MD

9:00 AM–9:30 AM
Faculty Case Presentations
Interventional Ultrasound: Therapy With Ultrasound Contrast Agents
Moderator: J. Brian Fowlkes, PhD
Soho/Herald

The goal of imaging should begin with detection but should ultimately treat detected disease. Ultrasound contrast has the potential to accomplish both goals using molecular imaging tools. This course will highlight what has been accomplished and what is still needed. The course will review research on the production and use of microbubbles to control and monitor blood flow and in the initiation of cavitational therapies. These microbubbles can be in the initial form of stabilized gas bubbles or generated from liquid droplets through interaction with acoustic fields. The course will also cover therapeutic issues of contrast agents, including drug delivery of recombinant tissue plasminogen activator using targeted ultrasound contrast agents in acute stroke.

8:00 AM–8:30 AM Use of Microbubbles in Occlusion and Ablative Therapy
J. Brian Fowlkes, PhD

8:30 AM–9:00 AM Better Blood Clot Breakup With Bubbles: Ultrasound-Enhanced Thrombolysis
Christy Holland, PhD

9:00 AM–9:30 AM Molecular Imaging With Ultrasound Contrast for Detection and Therapy
Robert Mattey, MD

Transplant Sonography
Moderator: Wui Chong, FRCR
Astor Ballroom

The goal of this course is to develop approaches to the evaluation of renal, liver, and pancreas transplants. These approaches will be amalgamations of concepts culled from recent literature as well as the perspectives of expert practitioners.

8:00 AM–8:30 AM Transplant Ultrasound: The Pancreas
Myron Pozniak, MD

8:30 AM–9:00 AM Doppler Ultrasound Evaluation of Liver Transplants
Wui Chong, FRCR

9:00 AM–9:30 AM Ultrasound Imaging of Renal Transplants
Shweta Bhatt, MD

Vascular Ultrasound in Screening: Part I
Moderators: Edward I. Bluth, MD, and M. Robert De Jong, RDMS, RVT
Broadway Ballroom South

This course will cover the role of sonography in screening for aortic aneurysms, carotid intima-media thickening, and thromboembolic venous disease. Faculty will discuss the newest advances pertaining to these diagnoses and elaborate on future trends regarding improvement in diagnosis.

8:00 AM–8:10 AM Ultrasound Contrast Agents: An Update
Lennard Greenbaum, MD

8:10 AM–8:25 AM Basic Principles of Ultrasound Screening
Mark Lockhart, MD, MP

8:25 AM–8:50 AM Carotid Plaque: Newer Concepts
Edward Bluth, MD
8:50 AM–9:10 AM  
Post-Carotid Stent Duplex Ultrasound  
Ann Marie Kupinski, PhD, RVT

9:10 AM–9:30 AM  
Intima-Media Thickening: Associated Cerebrovascular Disease  
Charles Tegeler, MD

Musculoskeletal Ultrasound: A Hands-on Course  
Moderator: Marnix van Holsbeeck, MD

Empire Complex

This course will be divided into 2 sections: advanced and basic. At the completion of the advanced course, participants should be able to identify the topographic and cross-sectional carpal and tarsal tunnel anatomy and practice techniques for ultrasound diagnosis of common tunnel syndromes. Participants of the basic course should be able to identify normal joint anatomy of the shoulder, elbow, wrist, hand, hip, knee, ankle, and foot by ultrasound. (Advance registration is required.)

8:00 AM–9:30 AM  
Group I Basic: Evaluation of Capsule and Ligaments of Joints  
Catherine Brandon, MD, David Fessell, MD, Jon Jacobson, MD, Theodore Miller, MD, Marnix van Holsbeeck, MD, and Carlo Martinoli, MD

8:00 AM–9:30 AM  
Group II Advanced: Ultrasound of the Nerves  
Tracy Boon, MD, Sam Chhaya, MD, Rethy Chhem, MD, Gandikota Girish, MD, David Jamadar, MD, William Medford, RDMS, Levon Nazarian, MD, Veronica Rodriguez-Saad, MD, Caroline Sofka, MD, Lynwood Hammer, MD, and Ralf Thiele, MD

“Getting Started” Ultrasound Practice Accreditation Workshop  
Moderator: Paula Woletz, MPH, RDMS, RDCS

Shubert Complex

At the end of this course, participants will have learned how to complete the ultrasound practice accreditation process. The course will also answer many of the most commonly asked questions about accreditation. (Advance registration is required.)

9:30 AM–10:30 AM  
Refreshment Break in the Exhibit Hall  
Westside Ballroom
10:30 AM–12:00 PM
Scientific Sessions

Six concurrent sessions, each including 7 presentations on the latest ultrasound research, are offered during this period.
* indicates presenter.

**Breast Ultrasound**
Moderators: Cindy Rapp, BS, RDMS, and Elizabeth Burnside, MD Marquis Ballroom

10:30 AM–10:42 AM
294252 A Comparison Study of Ultrasonic Holography for Breast Imaging
Hashimoto, Beverly E. *; Andre, Michael; Fecht, Barbara A.; Garlick, Todd

10:42 AM–10:54 AM
288393 Ultrasound-Guided Intranodal Injection of a Dendritic Cell Vaccine for the Treatment of Ductal Carcinoma In Situ of the Breast
Nisenbaum, Harvey L. *; Czerniecki, Brian J.; Koldovsky, Ursula; Horii, Steven C.; Rowling, Susan E.; Xu, Shuwen; Zhang, Paul; Koski, Gary

10:54 AM–11:06 AM
297161 Characterization of Volume Breast Ultrasound Scanner Imaging Performance
Nelson, Thomas *; Nebeker, Jakob; Denton, Susie; Cervino, Laura; Pretorius, Dolores; Boone, John

11:06 AM–11:18 AM
296014 Using Strain Imaging to Improve the Decision to Biopsy Solid Breast Masses on Ultrasound
Burnside, Elizabeth *; Hall, Timothy J.; Sommer, Amy M.; Heasley, Gina K.; Sisney, Gale A.; Svensson, William E.; Fine, Jason P.; Jiang, Jinfeng; Hangiandreou, Nicholas J.

11:18 AM–11:30 AM
295968 Comparative Evaluation of Vibrational Doppler Imaging and Hitachi's Sonoelastography Module in Detecting and Differentiating Breast Lesions
Iqbal, Asif *; Frank, Tim; Cuschieri, Alfred

11:30 AM–11:42 AM
295065 Shear Strain Elastograms Induced by Lateral Shear Deformation
Rao, M in *; Varghese, Tomy

11:42 AM–11:54 AM
295457 Update in Breast Vibroacoustography: In Vivo Results
Alizad, Azra *; Whaley, Dana H.; Kinnick, Randall R.; Greenleaf, James F.; Fatemi, Mostafa
Fetal Echocardiography and Obstetrics: Other
Moderators: Terry DuBose, MS, RDMS, and Eugene Toy, MD
Broadway Ballroom North

10:30 AM – 10:42 AM
296741 A Novel Approach for Second-Trimester Ultrasound Screening for Congenital Heart Disease: Analysis of 524 Obstetric Ultrasound/Fetal Echo Pairs
Schwartz, Nadav; Fishman, Shira; Newman, Tiffany; Seubert, David E.; Phoon, Colin; Timor, Ilan

10:42 AM – 10:54 AM
295530 Assessment of Fetal Cardiac Diagnostic Display From Biplane Matrix Acquisitions
Kho, Jennifer; Pretorius, Dolores H.†; D’Agostini, Deborah A.; Nelson, Thomas R.

10:54 AM – 11:06 AM
299491 Fetal Cardiac Ventricular Strain Using Velocity Vector Imaging
Lee, Wesley†; Doreswamy, Anitha; Comstock, Christine H.; Bronstein, Richard A.; Blackwell, Sean C.; Cutler, Nancy G.

11:06 AM – 11:18 AM
294634 Measurements of Left- and Right-Heart Cyclic Variation of Backscatter in Fetal Human Hearts at Mid Gestation
Holland, Mark R.; Singh, Gautam K.; Kulikowska, Agnieszka; Kirschner, Carol A.; Hicks, Deborah; Ludomirsky, Achiau

11:18 AM – 11:30 AM
295532 Is Fetal Anatomic Assessment on Follow-up Antepartum Sonograms Clinically Useful?
Toy, Eugene C.†; Montealegre, Alvaro I.; Fernandez, Laura P.; Harms, Konrad P.; Kaplan, Alan L.

11:30 AM – 11:42 AM
283623 Patient Knowledge Regarding the Diagnostic Sensitivity of Routine Second-Trimester Ultrasound
Collingham, Justin P.†; Grolman, William; Plaga, Stacey

11:42 AM – 11:54 AM
297346 Feasibility of Risk Assessment for Hereditary Breast or Ovarian Cancer During Perinatal Consultation
Jackson, David N.†; Landgren, Susan

High-Frequency Clinical and Preclinical Imaging
Moderators: Johnathan Mamou, PhD, and Jeffrey Ketterling, PhD
Shubert Complex

10:30 AM – 10:42 AM
289314 High-Frequency Ultrasound Techniques for Quantitative Assessment of Cardiac Function in Mouse Models of Heart Transplantation
Khoshrat, Mahdiah†; Zheng, Xiufen; Lian, Dameng; Min, Wei-ping; Lacefield, James

10:42 AM – 10:54 AM
279388 Impact of High-Resolution Microimaging With a 30-MHz Scanner for Evaluating Cardiac Function in Mice
Okajima, Kazue†; Abe, Yukio; Asai, Tomohiro; Kwon, Susan; Jin, Zhezhen; Homma, Shinichi

10:54 AM – 11:06 AM
297074 Noninvasive Real-time Imaging of Intima Thickness in the Rat Using Ultrasound Biomicroscopy
Razyvaev, Anton†; Lund, Kent; Roy, Joy; Hedlin, Ulf; Caidahl, Kenneth
11:06 AM–11:18 AM  
295634  
Improved Models for High-Frequency Quantitative Ultrasound Assessment of Cancer  
Oelze, Michael L.∗; O’Brien, William D.; Zachary, James F.

11:18 AM–11:30 AM  
296443  
Three-Dimensional Anatomic Imaging of the Mouse Embryo Using a 40-MHz Annular Array  
Aristizabal, Orlando∗; Ketterling, Jeffrey A.; Turnbull, Daniel H.

11:30 AM–11:42 AM  
289483  
High-Frequency Ultrasound Imaging of Cell Structural Changes Following Radiation Therapy  
Roxana, Vlad M.∗; Giles, Anoja; Kolios, Michael C.; Czarnota, Gregory J.

11:42 AM–11:54 AM  
293699  
Cepstrum Analysis of High-Frequency Ultrasound Backscatter Data From Purple Sea Urchin Embryos  
NathanAD, George; Baddour, Ralph; Vaziri, Homayoun; Czarnota, Gregory; Kolios, Michael C.∗

Musculoskeletal Ultrasound  
Moderators: Marnix van Holsbeck, MD, and William Medford, RDMS  
Astor Ballroom

10:30 AM–10:42 AM  
297081  
Synovial Thickness in Healthy Volunteers  
Ramos, Luis G.∗; Goldman, Michael; Saadeh, Constantine; Ramos, Christine; Skalsky, Katie; Lambert, Andi; Shelton, Daniel

10:42 AM–10:54 AM  
282802  
Sonography of Simple, Complex, and Collapsed Ganglions of the Hand and Wrist: A Morphologic Analysis  
Dahiya, Nirvikar∗; Teefey, Sharlene; Middleton, William D.; Boyer, Martin

10:54 AM–11:06 AM  
296986  
Ultrasound of Volar Plate Injuries  
Tagliafico, Alberto; Capaccio, Enrico; Demondion, Xavier; Cotten, Anne; Bianchi, Stefano; Martinoli, Carlo∗

11:06 AM–11:18 AM  
282646  
The Value of Sonography in Diagnosing Meniscal Tears With a Micro Convex Probe Compared With Arthroscopy  
Najafi, Jila∗; Lahiji, Farivar A.

11:18 AM–11:30 AM  
279113  
Ultrasound Imaging of Ganglia Near the Medial and Lateral Gastrocnemius Insertions  
Ksar, Jamal S.∗; Lee, Kenneth; van Holsbeck, Marnix

11:30 AM–11:42 AM  
295425  
Quantification of Leg Muscle Atrophy Using an Echographic Scanner: Comparison With Magnetic Resonance Imaging Data  
Arbelhe, Philippe∗; Capri, Arnaud; Kerbeci, Pascaline; Roncin, Alain; Trappe, S.; Trappe, T.

11:42 AM–11:54 AM  
295859  
Color Doppler Sonographic and Elastographic Differential Diagnosis of Skin Tumors  
Nakajima, Michiko∗; Shimizu, Masao; Kiyohara, Yoshio
New Investigator Awards Session
Moderator: Leon Frizzell, PhD
Soho/Herald
10:30 AM–10:42 AM
297210 Contralateral Lung Volumes Assessed by 3-Dimensional Ultrasonography in Fetuses With Isolated Congenital Diaphragmatic Hernia
Ruano, Rodrigo*; Aubry, Marie C.; Barthe, Bruno; Dumez, Yves; Zuglab, Marcelo; Benachi, Alexandra
10:42 AM–10:54 AM
292808 Preoperative Sonographic and Clinical Characteristics as Predictors of Ovarian Torsion
Shadinger, Libby L.*; Kurian, Rachel L.; Andreotti, Rochelle F.
10:54 AM–11:06 AM
297042 Quantification of Vascular Endothelial Growth Factor Receptor-2 Expression Using Targeted Contrast-Enhanced High-Frequency Ultrasonography
Lyshchik, Andrej*; Fleischer, Arthur C.; Huamani, Jessica; Hallahan, Dennis E.; Gore, John C.
11:06 AM–11:18 AM
295709 Modeling of Nonlinear Propagation in a Tissue-Mimicking Liquid
Stiles, Timothy
11:18 AM–11:30 AM
293950 Testicular Epidermoid Cysts: Sonographic Features With Clinicopathologic Correlation
Manning, Maria A.*; Woodward, Paula J.
11:30 AM–11:42 AM
295737 The Role of Inertial Cavitation in Producing Sonoporation
Forbes, Monica M.*; O’Brien, William D.
11:42 AM–11:54 AM
296541 Semiautomatic Measurement of Thermally Ablated Lesions in Sonoelastographic Images
Castaneda, Benjamin*; Zhang, Man; Bylund, Kevin; Christensen, Jared; Saad, Wael; Rubens, Deborah J.; Parker, Kevin J.

Obstetrics: Aneuploidy
Moderators: Anthony Odibo, MD, and Lisa Deiranieh, RDMS
Broadway Ballroom South
10:30 AM–10:42 AM
296094 Second-Trimester Abnormal Nasal Bone: Association With Aneuploidy and Abnormal Sonographic Findings
Yeo, Lami*; Klein, Rachel T.; Ananth, Cande; Smulian, John; Vintzileos, Anthony
10:42 AM–10:54 AM
295661 Fetal Long Bones and Down Syndrome: Are Short Femur and Humeral Lengths Independent Markers?
Odibo, Anthony O.*; Gray, Diana; Dicke, Jeffrey; Stamilio, David; Macones, George
10:54 AM–11:06 AM
295320 Isolated Short Femur: What Does This Mean?
Oh, Karen Y.; Frias, Antonio E.; Byrne, Janice L.B.; Kennedy, Anne M.*

11:06 AM–11:18 AM
295971 Revisiting Humeral Length for the Detection of Down Syndrome Fetuses
Gray, Diana L.*; Dicke, Jeffrey M.; Dickerson, Rachel; McCourt, Carolyn; Odibo, Anthony O.

11:18 AM–11:30 AM
285164 Prenatal Detection of Triploidy
Watson, William J.*; Miller, Richard C.; Wax, Joseph R.; Yamamura, Yasko; Hansen, Wendy F.

11:30 AM–11:42 AM
288253 Trisomy 18: Accuracy of Prenatal Detection by Targeted Ultrasound in the First and Second Trimesters of Pregnancy
Watson, William J.*; Miller, Richard C.; Wax, Joseph R.; Hansen, Wendy F.; Yamamura, Yasko

11:42 AM–11:54 AM
296956 Harm Resulting From Risk Reduction by the Genetic Sonogram in Advanced Maternal Age Patients
Henry, George P.

12:15 PM–1:15 PM
Meet-the-Professor Sessions
Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 66.

 SATP1  Breaking Bad News: Can We Make It Any Less Painful?
Bryann Bromley, MD O’Neill

 SATP2  Ultrasound-Guided Biopsies: What You Need to Know
Ulrike Hamper, MD, MBA Brecht

 SATP3  Obstetric Imaging With Magnetic Resonance Imaging
Deborah Levine, MD Ziegfeld

 SATP4  Sonography of Abdominal Wall Hernias
Cindy Rapp, BS, RDMS Odets

 SATP5  Doppler Artifacts and Pitfalls
Deborah Rubens, MD Wilder

12:15 PM–1:15 PM
Scientific Poster Discussion
Fourth and Seventh Floor Foyers

12:15 PM–1:15 PM
Lunch Break in the Exhibit Hall
Westside Ballroom
**Categorical Courses**

Eight concurrent in-depth courses presented by top experts in the field are conducted during this period.

**Emergency Ultrasound**
Moderator: Leslie Scoutt, MD
Shubert Complex

This course will focus on topics of interest to physicians and sonographers who perform, interpret, or teach ultrasound used in patients presenting with acute complaints. The faculty will focus on 2 common and high-risk conditions that rely almost exclusively on ultrasound for the diagnosis. They assume a basic knowledge of the use of sonography in these situations and will focus on tips and potential pitfalls in making and ruling out diagnoses using ultrasound. The course will also cover the integration of emergency ultrasound into the cutting-edge educational area of medical simulation.

1:30 PM–2:00 PM  
**Ovarian Torsion: Tips and Pitfalls in Sonographic Diagnosis**  
Leslie Scoutt, MD

2:00 PM–2:30 PM  
**Tips, Pitfalls, and Ancillary Findings in the Emergency Department Evaluation of Deep Venous Thrombosis**  
Christopher Raio, MD, RDMS

2:30 PM–3:00 PM  
**Integration of Ultrasound Into Advanced Medical Simulation**  
Arun Nagdev, MD

3:00 PM–3:30 PM  
**Ultrasound in 21st Century Medical Education**  
David Bahner, MD, RDMS

**Matrix Module**

**Examination of the Fetal Heart: A Systematic Approach**
Moderator: Lami Yeo, MD
Broadway Ballroom North

This course will include an audience response system.

This course will review and discuss the appropriate sonographic examination of the fetal heart by utilizing a systematic approach. It will cover various cardiac views and techniques, starting with basic and progressing to more advanced techniques. When applicable, correlations with heart anomalies will also be discussed.

1:30 PM–1:50 PM  
**Performance of the Basic Examination of the Fetal Heart**  
Lami Yeo, MD

1:50 PM–2:10 PM  
**Performance of an Extended Examination of the Fetal Heart**  
Gregory DeVore, MD

2:10 PM–2:25 PM  
**Automated Sonography: Defining the Spatial Relationship of Standard Diagnostic Fetal Cardiac Planes in the Second Trimester of Pregnancy**  
Alfred Abuhamad, MD

2:25 PM–2:40 PM  
**Global Ventricular Performance: A New Parameter of Fetal Cardiac Function**  
Wesley Lee, MD
2:40 PM–2:55 PM  Umbilical Artery Resistive Index and Left Ventricular Cardiac Output in Normal Fetuses During the Third Trimester of Pregnancy
Joaquin Santolaya-Forgas, MD

2:55 PM–3:15 PM  How to Teach 3-Dimensional Techniques to Physicians and Sonographers
Alfred Abuhamad, MD

3:15 PM–3:30 PM  Questions and Answers

High-Frequency Ultrasound Imaging of Blood Flow and the Vasculature
Moderators: Michael Kolios, PhD, and Michael Oelze, PhD
Soho/Herald

The objective of the course is to familiarize clinicians and sonographers with blood flow estimation, perfusion, and characteristics of the vasculature using high-frequency ultrasound. Clinical applications include intravascular ultrasound (IVUS) imaging of coronary arteries and ocular blood flow assessment. The latest methods in high-frequency ultrasound assessment of blood flow, IVUS, and perfusion imaging will be presented.

1:30 PM–2:00 PM  Imaging Microbubbles With High-Frequency Ultrasound
Dave Goertz, PhD

2:00 PM–2:30 PM  High-Frequency Ultrasound Imaging of Blood Flow and Vasculature: Perfusion and Microperfusion of Ocular Tissues
Ronald Silverman, PhD

2:30 PM–3:00 PM  Evaluation of Circulatory Disorders in a Mouse Model Mimicking Human β-Thalassemia Major and Sickle Cell Anemia
Guy Cloutier, PhD

3:00 PM–3:30 PM  Vascular Plaque Characterization With Intravascular Ultrasound Backscatter Analysis
Anuja Nair, PhD

Matrix Module
Imaging the Female Patient: Ultrasound Versus a Multimodality Approach
Moderator: Jill Langer, MD
Broadway Ballroom South

Ultrasound, computed tomography (CT), and magnetic resonance imaging (MRI) have been utilized in imaging the female patient and diagnosing various gynecologic diseases and tumors. Ultrasound is the first-line imaging modality for examining patients presenting with pelvic pain, evaluating early pregnancy complications, characterizing adnexal masses and making definitive diagnoses, and evaluating intracavitary uterine pathology. CT is often utilized in staging malignancies detected initially on ultrasound. MRI has been useful in evaluation of endometriomas and endometriosis, adenomyosis versus leiomyomas, uterine anomalies, and tumors versus fibrosis and is increasingly being used in pregnancy and obstetrics. Clinicians have direct contact with their patients, and ultrasound is the primary diagnostic tool in the imaging workup of the female patient. The radiologist is often confronted with an "exam" for interpretation, be it ultrasound, CT, or MRI. An introductory lecture will discuss the advantages and disadvantages of each modality and examples will be portrayed. Following the introduction lecture, the two different approaches to the evaluation and workup of the female patient will be presented.
New Technologies: How Do They Get From the Bench to the Clinic?
Moderators: Jacques S. Abramowicz, MD, and Thomas R. Nelson, PhD
Marquis Ballroom
This course will provide an overview of how new technologies and developments migrate from the research lab to the clinical bedside. A variety of factors come into play during this process, and each will be considered with respect to their contribution to a successful migration. Successful research ideas require refinement to be successfully integrated into clinical instrumentation and implementation from the commercial vendor perspective. Additionally, it has become increasingly important to determine the clinical efficacy of the idea and ultimately to assemble sufficient supporting data to establish it as a viable clinical contribution to justify clinical use and reimbursement from insurance providers. Several specific examples (2-dimensional transducer arrays, volume ultrasound, and contrast agents) will be discussed that are at the forefront of new technological development.

1:30 PM–1:45 PM The Idea: What Do the Researchers Do? Thomas Nelson, PhD
1:45 PM–2:00 PM The Implementation: When Do the Companies Do It? Dennis Meister, BSE
2:00 PM–2:15 PM The Efficacy: Why Are Clinical Studies Needed? Wesley Lee, MD
2:15 PM–2:30 PM The Money: What Does It Take for Insurers to Pay? Harvey Nisenbaum, MD
2:30 PM–2:45 PM Matrix Array Transducers: Challenges and Clinical Opportunities Jim Brown, RT, RDMS, RDCS
2:45 PM–3:00 PM Contrast Agents: Is It Time Yet? Michael Riccabona, MD
3:00 PM–3:15 PM Volume Ultrasound: Why, How, When Dolores Pretorius, MD
3:15 PM–3:30 PM Incorporating New Technology in Your Practice: Now or Wait and See? Jacques Abramowicz, MD
Sonography and Urinary Tract Infections:
World Perspectives on the Specimen Cup
Moderator: Harriet Paltiel, MD
Gramercy/Olmstead
Participants of this course will hear a panel of experts discuss historical practice, evidence-based principles, and current state of the art in imaging children with urinary tract infections, from both US and European perspectives. Audience participation in the panel discussion will provide an opportunity to have individual questions addressed and promote peer review of daily practice patterns.

1:30 PM–2:00 PM  Facts and Fables: An Overview
Steven Kraus, MD

2:00 PM–2:30 PM  Sonography in Pediatric Urinary Tract Infections: the European Perspective
Michael Riccabona, MD

2:30 PM–3:00 PM  Role of Sonography in the United States
Harriet Paltiel, MD

3:00 PM–3:30 PM  Faculty Discussion

Sonography of the Anterior Neck
Moderator: Vikram Dogra, MD
Astor Ballroom
The goal of this course is to describe the sonographic evaluation of abnormalities of the thyroid, parathyroid, lymph nodes, and adjacent structures. Particular emphasis will be given to a practical and reasoned approach to the assessment and biopsy of thyroid nodules.

1:30 PM–2:00 PM  The Management of Thyroid Nodules: Still a Conundrum?
Louis Hinshaw, MD

2:00 PM–2:30 PM  Postoperative Surveillance of Thyroid Carcinoma: Rationale, Techniques, and Controversies
Mitchell Tublin, MD

2:30 PM–3:00 PM  Ultrasound Evaluation of the Parathyroid Glands
Vikram Dogra, MD

3:00 PM–3:30 PM  Ultrasound Evaluation of Cervical Lymph Nodes
Suhas Parulekar, MD

Three-Dimensional Volume Manipulation in Obstetrics and Gynecology—Basic to Advanced Techniques: A Hands-on Course
Moderator: Deborah D’Agostini, MD
Empire Complex
This course will demonstrate how to manipulate 3-dimensional (3D) volumes in real time. It will cover 3D volumes in obstetrics, including the fetal heart, face, spine, and extremities. Three-dimensional volumes in gynecology will also be presented, including normal and retroverted uterus and ovaries. Personal computers will be used for the demonstration, but the concepts of 3D volume manipulation can be used on any workstation or ultrasound equipment. (Advance registration is required.)

1:30 PM–1:50 PM  Gynecology
Sharon Horton, RT, RDMS

1:50 PM–2:10 PM  Fetal Heart
Bardo Polanco, PhD
2:10 PM–2:30 PM  Obstetrics  Deborah D’Agostini, RDMS
2:30 PM–3:30 PM  Hands-on Session

3:30 PM–4:30 PM  Professional Interest Section Meetings
Practice of Sonography  Empire Complex
Basic Science and Instrumentation  Marquis Ballroom

3:30 PM–4:30 PM  Refreshment Break in the Exhibit Hall
Westside Ballroom

4:30 PM–5:30 PM  Scientific Sessions
Six concurrent sessions, each including 5 presentations on the latest ultrasound research, are offered during this period.
* indicates presenter.

Contrast Agents
Moderators: David Cosgrove, MA, MSc, and James Zagzebski, PhD
Astor Ballroom

4:30 PM–4:42 PM
296063 Variability in Lymphatic Drainage From Melanoma Tumors: The Effect of Tumor Location on the Detection of Sentinel Lymph Nodes
Goldberg, Barry B.*; Merton, Daniel A.; Liu, Ji-Bin; Aruva, Mohan; Fox, Traci B.; Zhang, Kaijun; Chiou, See-Ying; Thakur, Madhukar; Forsberg, Flemming

4:42 PM–4:54 PM
294474 Contrast-Enhanced Ultrasound for Guiding and Monitoring Ethanol Ablation of Canine Prostate
Liu, Ji-Bin*; Chiou, See-Ying; Merton, Daniel A.; Yin, Li-Xue; Forsberg, Flemming; Goldberg, Barry B.

4:54 PM–5:06 PM
297009 Three-Dimensional Perfusion Measurements Using a Dual-Transducer Ultrasound Contrast Agent Technique
Chen, Nelson G.; Fowlkes, J. Brian; Carson, Paul L.; LeCarpentier, Gerald L.*

5:06 PM–5:18 PM
290687 Ultrasound Imaging With Resonant Contrast Microbubbles
Shi, William T.*; Hall, Christopher S.; Rafter, Patrick G.

5:18 PM–5:30 PM
297320 Ultrasound-Mediated Drug Release From Nanoscale Echogenic Liposomes
Abruzzo, Todd*; Wang, Boyu; Kopechek, Johnathan; Kee, Patrick; Smith, Denise; Collier, Joel; McDonald, Robert; McPherson, David; Holland, Christy
Genitourinary Ultrasound
Moderators: John Kim, MD, and Teresa Bieker, BS, RT, RDMS, RVT, RDMS
Marquis Ballroom

4:30 PM–4:42 PM
297236 Power Doppler Sonography of the Feeding Arteries of the Prostate Gland: A New Approach to the Diagnosis of Prostate Cancer?
Turgut, Ahmet T.*; Olcucuoglu, Esin; Kosar, Pinar; Geyik, Pinar O.; Kosar, Ugur

4:42 PM–4:54 PM
292063 Detection of Prostate Cancer With Contrast-Enhanced Microflow Imaging
Halpern, Ethan J.; Forsberg, Flemming; Linden, Robert A.*; Gittens, Paul R.; Trabulsi, Edouard; Gomella, Leonard G.

4:54 PM–5:06 PM
292846 Impact of Gray Scale, Color Doppler, and Elastography on Prostate Cancer Detection and Gleason Score
Halpern, Ethan J.*; Nelson, Eric D.; Slotroff, Craig B.; Gomella, Leonard G.

5:06 PM–5:18 PM
296644 Transabdominal Ultrasound With Tissue Harmonic Imaging and Compound Imaging in the Diagnosis of Urinary Bladder Wall Abnormalities Detected at Cystoscopy
Francia, Giampiero*; Bellini, Sergio; Scarano, Ferdinando; Miragliuolo, Antonio; De Marino, Fedele; Maniscalco, Mauro

Gynecology: The Ovary
Moderators: Steven Goldstein, MD, and J. Oscar Barahona, BS, RDMS
Broadway Ballroom South

4:30 PM–4:42 PM
295544 Histologic, Operative, and Sonographic Correlation of Adnexal Masses
Asch, Elizabeth*; Levine, Deborah; Hecht, Jonathan; Kim, Young

4:42 PM–4:54 PM
290067 Sonography of Ovarian Tumors Using Quantitated Color Doppler Sonography Versus Morphology
Fleischer, Arthur C.*; Andreotti, Rochelle F.; Wilson, Wendy D.; Valet, Amy S.; Green-Jarvis, Brenda; Lyshchik, Andrej

4:54 PM–5:06 PM
297247 Assessment of the Vascular Tree in Ovarian Tumors Using 3-Dimensional Power Doppler Ultrasound
Sladkevicius, Povilas*; Jokubkiene, Ligita; Valentin, Lil

5:06 PM–5:18 PM
294251 Hyperechoic Ovarian Stroma: Not an Ultrasonographic Sign of Polycystic Ovarian Syndrome
Yeh, Hsu-Chong*; Futterweit, Walter

5:18 PM–5:30 PM
297209 Imaging Trends in Patients With Proven Ovarian Torsion
Moore, Christopher L.*; Capotasto, Juliana
Interventional and Intraoperative Sonography
In Memory of Jeanne Cullinan, MD
Moderators: Vikram Dogra, MD, and M. Robert De Jong, RDCS, RDMS, RVT

Soho/Herald
4:30 PM–4:42 PM
297238 Comparison of Infection Rates Among Ultrasound-Guided Versus Blindly Placed Peripheral Intravenous Lines
Adhikari, Srikar*; Blaivas, Michael; Morrison, Daniel

4:42 PM–4:54 PM
297351 Ultrasound-Guided Intra-articular Injection of Hyaluronic Acid 20 in the Treatment of Symptomatic Hip Osteoarthritis
Sorrentino, Fortunato*; Iovane, Angelo; Nicoletta, Antonio; Midiri, Massimo

4:54 PM–5:06 PM
296761 Real-time Biplane Ultrasound Guidance for Interventional Procedures
Kolokythas, Orpheus*; Bruce, Matthew F.; Gauthier, Thomas; Andrews, R. Torrance; Timm, Brian A.; Dighe, Manjiri K.; Cuevas, Carlos; Mitsumori, Lee M.; Dubinsky, Theodore J.; Warren, Bill H.

5:06 PM–5:18 PM
296758 Contrast-Enhanced Ultrasound Guidance for Interventional Procedures Using Simultaneous Imaging of Contrast and Tissue
Kolokythas, Orpheus*; Bruce, Matthew F.; Andrews, R. Torrance; Gauthier, Thomas; Timm, Brian A.; Dighe, Manjiri K.; Cuevas, Carlos; Mitsumori, Lee M.; Dubinsky, Theodore J.; Warren, Bill H.

5:18 PM–5:30 PM
296777 Three- and 4-Dimensional Contrast-Enhanced Ultrasound in Liver Interventions
Bruce, Matthew F*; Kolokythas, Orpheus; Gauthier, Thomas; Timm, Brian A.; Andrews, R. Torrance; Dighe, Manjiri; Cuevas, Carlos; Mitsumori, Lee; Dubinsky, Theodore J.; Warren, Bill H.

Obstetrics: First Trimester
Moderators: Eugene Toy, MD, and Deborah D’Agostini, RDMS

Broadway Ballroom North
4:30 PM–4:42 PM
297262 Rationalizing the Follow-up of Pregnancies of Unknown Location
Kirk, Emma*; Condous, George; Tan, Linda; Van Calster, Ben; Van Huffel, Sabine; Timmerman, Dirk; Bourne, Tom

4:42 PM–4:54 PM
297268 Hyperemesis Gravidarum: Is an Ultrasound Scan Necessary?
Kirk, Emma*; Papageorghiou, Aris T.; Condous, George; Bottomley, Cecilia; Tan, Linda; Bourne, Tom

4:54 PM–5:06 PM
297270 The Value of Ultrasound for the Diagnosis of Gestational Trophoblastic Disease
Kirk, Emma*; Papageorghiou, Aris T.; Condous, George; Bottomley, Cecilia; Tan, Linda; Bourne, Tom
5:06 PM–5:18 PM
294175 The Value of Repeat Evaluation Following Failed Nuchal Translucency Measurement
Wax, Joseph*; Pinette, Michael; Cartin, Angelina; Blackstone, Jacquelyn

5:18 PM–5:30 PM
297298 Combining 110 Fetal Biometry Charts With a Multicenter Sonomorphology Mapping Database at the 6- to 16-Week Malformation Workup
Rottem, Shraga*; Sood, Rupa; Lyskiwicz, Andrzej; Tintle, Suzanne; Macedonia, Christian; Lopez, Lilian; Gembruch, Ulrich; Binholz, Jason; Chen, Min; Bombard, Allian; Deefort, Paul; Yeboa, Kwame

Ultrasound Training, Techniques, and Patient Care
Moderator: Wayne Persutte, PhD, MS, RDMS
Gramercy/Olmstead

4:30 PM–4:42 PM
295775 Peripheral Nerve Imaging With Ultrasound: Construction of a Web-Based Atlas
Gray, Andrew*; Schafhalter-Zoppoth, Ingeborg

4:42 PM–4:54 PM
296166 Assessment of an Ultrasound Training Program for Physicians From the Caribbean and Central and South America
Baltarowich, Oksana H.*; Goldberg, Barry B.; Wilkes, Annina N.; Fox, Traci B.; Veloski, J. Jon

4:54 PM–5:06 PM
294586 A Model to Serve: Improving Obstetric Ultrasound Access and Safety-Net Hospital Revenues by Developing a Regional System of Care
Byrne, James*; Colon, Iris; DeFresne, Jenny; Wilcox, Nichole; Spencer, Roger

5:06 PM–5:18 PM
289207 Commercial Fetal Keepsake Ultrasound: A Comparison With Prenatal Ultrasound Imaging in the Maternal-Fetal Medicine Setting
Simonsen, Sara E.*; Varner, Michael; Nelson, Kristi; Rose, Nancy C.

5:18 PM–5:30 PM
296748 Advanced Diagnostic Ultrasound in Microgravity, Onboard Proficiency Enhancer, and Application to Terrestrial Situations
Tran, Leanne; Hamilton, Douglas; Dulchavy, Scott

4:30 PM–5:30 PM
Just Images Session: Pediatric and Cardiovascular Ultrasound
Shubert
Participants discuss and view unique pediatric and cardiovascular ultrasound cases.
Brian Coley, MD, Michael DiPietro, MD, Marsha Neumyer, BS, RVT, Beatrice Madrazo, MD, RVT, and John Pelleritou, MD

7:00 PM–11:00 PM
Leadership Banquet and Club AIUM
48th Floor • The View (by invitation only)
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Complete your evaluation of the 2007 AIUM Annual Convention and Preconvention Program online at www.aium.org!

Please take a few minutes to tell us about your experience at the convention by logging on to www.aium.org. Your feedback is important to us. It helps us improve the quality of our programs and plan future educational events. Don't miss the opportunity to weigh in with your opinions!

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All completed evaluations will receive a coupon worth 15% off any Online Store purchases from the AIUM made within 24 hours of completing your evaluation form. This discount applies to all publications, CME video programs, and more!

Online evaluation forms must be completed by April 28, 2007.
Sunday, March 18
Convention

Schedule at a Glance

6:30 AM–5:00 PM  Registration Open
7:00 AM–8:00 AM  Meet-the-Professor Sessions
7:30 AM–8:00 AM  Exhibit Advisory Committee Meeting
8:15 AM–10:15 AM  Categorical Courses
8:15 AM–10:15 AM  Hands-on Course: Cardiovascular Ultrasound
8:15 AM–10:15 AM  Hands-on Course: Neurosonology
8:15 AM–9:45 AM  Clinical Standards Committee Meeting
9:30 AM–1:30 PM  Exhibit Hall Open
10:15 AM–11:15 AM  Refreshment Break in Exhibit Hall
10:45 AM–12:15 PM  Council on Sections Meeting
11:15 AM–12:15 PM  Film Panel Sessions
12:30 PM–1:30 PM  Meet-the-Professor Sessions
12:30 PM–1:30 PM  Scientific Poster Discussion
12:30 PM–1:30 PM  Lunch Break in Exhibit Hall
1:30 PM–1:45 PM  AIUM Business Meeting
1:45 PM–3:15 PM  Categorical Courses
2:00 PM–4:00 PM  Executive Committee Meeting
3:30 PM–5:00 PM  Scientific Sessions
3:30 PM–5:00 PM  Just Images Session: Abdominal and Musculoskeletal Ultrasound
Meet-the-Professor Sessions

Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 66.

**SUNA1** Tricks of the Trade
Alfred Abuhamad, MD
O’Neill

**SUNA2** Multiple Gestations
Carol Benson, MD
Ziegfeld

**SUNA3** Neonatal Neurosonology
Dorothy Bulas, MD
Brecht

**SUNA4** Obstetric Measurements: Which Ones Are Important?
Peter Doubilet, MD
Odets

**SUNA5** Translating Clinical Care Into Income: Utilizing the RBRVS System to Understand How What You Do Creates What You Earn
Robert Wolfson, MD, PhD
Wilder

Categorical Courses

Eight concurrent in-depth courses presented by top experts in the field are conducted during this period.

Arthrosonography
Moderator: Carlo Martinoli, MD
Shubert Complex

At the completion of this course, participants should be able to identify normal joint anatomy of the shoulder, elbow, wrist, hand, hip, knee, ankle, and foot by ultrasound; gain optimal ultrasound access to the joint capsules of individual joints; discuss the indications/findings for musculoskeletal sonography in rheumatology applications; explain the use of musculoskeletal sonography for diagnosis and ultrasound-guided intervention in painful and inflamed joints; and identify sonographic characteristics of commonly seen joint pathology.

- **8:15 AM–8:30 AM** Ultrasound Anatomy of the Joint
  Caroline Sofka, MD
- **8:30 AM–8:45 AM** Internal Derangement
  Rethy Chhem, MD
- **8:45 AM–9:00 AM** Infections
  Antonio Bouffard, MD
- **9:00 AM–9:15 AM** Ultrasound Guidance Improves Outcomes in Rheumatology
  Ralf Thiele, MD
- **9:15 AM–9:30 AM** Use of Color Doppler and Power Doppler in Evaluation of Inflamed Joints
  Ronald Adler, MD
- **9:30 AM–9:45 AM** Ultrasound-Guided Intervention in and Around Joints
  Etienne Cardinal, MD
- **9:45 AM–10:00 AM** Questions and Answers
Fetal Cardiac Screening Examination
Moderator: Greggory DeVore, MD
Broadway Ballroom North
This course will include an audience response system.
This course will review basic and extended fetal cardiac screening examination strategies, including application of 3- and 4-dimensional techniques to enhance the examination for increasing the identification of congenital heart disease in the general population.

8:15 AM–8:45 AM  Basic Fetal Cardiac Screening Examination
Alfred Abuhamad, MD

8:45 AM–9:15 AM  Extended Fetal Cardiac Screening Examination
Wesley Lee, MD

9:15 AM–9:45 AM  Three- and 4-Dimensional Fetal Cardiac Examination
Luís Gonçalves, MD

9:45 AM–10:15 AM  Update of AIUM Fetal Heart Screening CD-ROM
Greggory DeVore, MD

How to Obtain Great Obstetric Images
Moderator: Diana Strickland, BS, BA, RDMS, RDCS
Gramercy/Olmstead
This session will cover scanning skills, tips, and techniques for general obstetric, fetal heart, and obstetric Doppler assessment to help the sonographer and sonologist improve the percentage of high-quality diagnostic examinations. A review of basic techniques to tips that the experts use on those technically challenging patients will be discussed.

8:15 AM–8:50 AM  Imaging of Neural Tube Defects: Isolating the Level of the Lesion Using 2- and 3-Dimensional Imaging Techniques
Cyrethia McShane, BS, RDMS

8:50 AM–9:25 AM  Obtaining Great 2-Dimensional Fetal Heart Images
Diana Strickland, BS, BA, RDMS, RDCS

9:25 AM–10:00 AM  Obstetric Doppler
Charlotte Henningsen, MS,RT, RVT, RDMS

10:00 AM–10:15 AM  Questions and Answers

Recent Technical Developments in High-Frequency Ultrasound
In Memory of Francis Fry, BS, MS
Moderators: Michael Kolios, PhD, and Hector Lopez, ScD
Marquis Ballroom
Participants of this course will become familiar with technical advances and developments in high-frequency ultrasound (HFU, 20–200 MHz), as well as the advantages and limits of this technology. High-frequency ultrasound offers higher resolution (10–100 µm) than conventional ultrasound at the cost of reduced penetration in tissue. Current clinical uses include ophthalmic, dermatologic, and intravascular imaging, as well as other modes of data presentation. Growing applications include research on small animals, where high spatial and temporal resolution are required, and molecular imaging, in which probes (biomarkers) are used to image various targets or pathways. Currently, there are commercial devices that produce HFU, but the applications and uses have been limited because of the type and size of transducers available. Course speakers will discuss advances in transducer and signal processing technology, possible expanded applications, and future directions of this technology.
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<tr>
<th>Time</th>
<th>Session Description</th>
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<tr>
<td>8:15 AM–8:45 AM</td>
<td>Recent Developments in High-Frequency Transducers and Arrays</td>
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<td>K. Kirk Shung, PhD</td>
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<tr>
<td>8:45 AM–9:15 AM</td>
<td>High-Frequency Ultrasound Imaging Using Capacitive Micromachined Ultrasonic Transducers</td>
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<td>Pierre Khuri-Yakub, PhD</td>
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<td>9:15 AM–9:45 AM</td>
<td>Functional and Molecular Micro-Ultrasound Imaging of Mice</td>
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<td>F. Stuart Foster, PhD</td>
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<tr>
<td>9:45 AM–10:15 AM</td>
<td>Near-Future Applications and Developments in High-Frequency Ultrasound</td>
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<td>Peter Lewin, MSc, PhD</td>
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**Matrix Module:**

**Ultrasound Presentations of 2-Dimensional and 3-Dimensional (3D) Obstetric and Gynecologic Cases as Unknowns to the Audience: Where Did 3D Make a Difference?**

**In Memory of Frank Hadlock, MD**
Moderator: Beryl Benacerraf, MD

Broadway Ballroom South

The speakers will work together to present as many obstetric and gynecologic cases as time permits for the audience to view as unknowns. Once the audience has voted on the final diagnosis, the case will be discussed, including the imaging findings that were important to making the correct diagnosis and the importance (or not) of 3D ultrasound in each case.

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<th>Time</th>
<th>Session Description</th>
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<tr>
<td>8:15 AM–8:35 AM</td>
<td>Unknown Cases in Obstetrics and Gynecology for Discussion</td>
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<td>Lawrence Platt, MD</td>
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<td>8:35 AM–8:55 AM</td>
<td>Unknown Cases in Obstetrics and Gynecology for Discussion</td>
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<td>Ilan Timor, MD</td>
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<td>8:55 AM–9:07 AM</td>
<td>Fetal Cranial Assessment Utilizing a Single Tomographic Ultrasound Imaging Acquisition Compared to Standard 2- or 3-Dimensional Evaluations Alone</td>
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<td>David Jackson, MD</td>
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<td>9:07 AM–9:19 AM</td>
<td>Nomograms of Fetal Lung Volumes Estimated by 3-Dimensional Ultrasonography Using the Rotational Technique (Virtual Organ Computer-Aided Analysis)</td>
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<td>Rodrigo Ruano, MD, PhD</td>
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<td>9:19 AM–9:31 AM</td>
<td>Informative Collaboration of Targeted Fetal 3-Dimensional Ultrasound With In Utero Magnetic Resonance Imaging in Rural Consultation</td>
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<td>David Jackson, MD</td>
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<td>9:31 AM–9:51 AM</td>
<td>Unknown Cases in Obstetrics and Gynecology for Discussion</td>
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<td>Alfred Abuhamad, MD</td>
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<td>9:51 AM–10:15 AM</td>
<td>Unknown Cases in Obstetrics and Gynecology for Discussion</td>
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<tr>
<td>Beryl Benacerraf, MD</td>
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Matrix Module:
Vascular Ultrasound
Moderator: Mark Kliewer, MD
Astor Complex

The goal of this course is to provide context and expert commentary on scientific abstracts presented at the meeting. Abstracts were chosen for discussion on the basis of their quality, innovative approach, and controversial positions.

8:15 AM–8:45 AM  New Doppler Techniques in the Abdomen: The Session in Context
Mark Kliewer, MD

8:45 AM–8:57 AM  Hemodynamics of the Left Gastric Vein and Left Gastric Artery in Portal Hypertension
Shoichi Matsutani, MD

8:57 AM–9:09 AM  Leg Arterial and Venous Hemodynamic and Tissue Response to an Induced Fluid Shift With and Without Elastic Compression Stockings
Philippe Arbeille, MD, PhD

9:09 AM–9:21 AM  In Vitro in-Stent Restenoses Evaluated Using 3-Dimensional Freehand Ultrasound
Myriam Lécart, Bling

9:21 AM–9:33 AM  The Use of Contrast-Enhanced Ultrasound in Detecting Type II Endoleaks After Endovascular Abdominal Aortic Aneurysm Repair
Anna Drelich-Zbroja, MD

9:33 AM–9:45 AM  Clinical Application of Percutaneous Transcatheter Closure of Atrial Septal Defects With Transthoracic Integrated Echocardiography Only
Jia-Kan Chang, MD

9:45 AM–10:15 AM  New Doppler Techniques in the Abdomen: The Session in Review
Deborah Rubens, MD

Cardiovascular Ultrasound: A Hands-on Course
Moderator: M. Robert De Jong, RDMS, RVT, RDCS
Empire Complex

This session will discuss the protocols for screening of the peripheral arteries, carotids, and abdominal aorta; offer hands-on opportunity for attendees; and elaborate on the scanning approach for successful imaging of difficult patients. (Advance registration is required.)

8:15 AM–8:25 AM  Peripheral Arterial Disease: Protocol
Pamela Dickson, MD

8:25 AM–8:35 AM  Carotid Occlusive Disease: Protocol
Gene Doverspike, RVT

8:35 AM–8:45 AM  Abdominal Aortic Aneurysm: Protocol
Marsha Neumyer, BS, RVT

8:45 AM–10:15 AM  Hands-on Session
Transcranial Doppler (TCD) is an important neurodiagnostic method, with rapidly expanding clinical cerebrovascular applications, from infants to adults. This hands-on course will describe various techniques of TCD, including the use of imaging and nonimaging methods via the transtemporal approach. Participants will be able to view the study being performed as well as practice performing the exam. This course is appropriate for anyone interested in learning the techniques of TCD and reviewing applications from infants to adults. (Advance registration is required.)

8:15 AM–8:25 AM
Transcranial Doppler/Power M-mode Technique
Zsolt Garami, MD

8:25 AM–8:35 AM
Transcranial Color Doppler Sonography
Dorothy Bulas, MD

8:35 AM–8:45 AM
Carotid Intimal-Medial Thickness/Distensibility
Tatjana Rundek, MD, PhD

8:45 AM–8:55 AM
3- and 4-Dimensional Sonography of the Neonatal Brain
Michael Riccabona, MD

8:55 AM–10:15 AM
Hands-on Session
Zsolt Garami, MD, Dorothy Bulas, MD, Charles Tegeler, MD, Tatjana Rundek, MD, PhD, Sam Trocio, RDMS, Roque Sia, RDMS, Oscar Ramos, RDMS, Romel Ramos, RDMS, Dina Cabral, RDMS, and Linda Rebolo, RDMS

10:15 AM–11:15 AM
Refreshment Break in the Exhibit Hall
Westside Ballroom

11:15 AM–12:15 PM
Film Panel Session
The film panel offered at this hour will allow you to test your skills with the experts.

Obstetric and General Imaging Film Panel
Broadway Ballroom North
This course will include an audience response system.

Film Panel Cochairs: J. Oscar Barahona, BS, RDMS, Mark Lockhart, MD, MPH, Jiri Sonek, MD, RDMS

12:30 PM–1:30 PM
Meet-the-Professor Sessions
Three concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 66.

SUNP1 Ultrasound Imaging of Angiogenesis
Flemming Forsberg, PhD
Wilder
SUNP2  Nuts and Bolts of 3- and 4-Dimensional Ultrasound
Luís Gonçalves, MD
Breth

SUNP3  Interventional Musculoskeletal Ultrasound Update
Levon Nazarian, MD
Odets

12:30 PM–1:30 PM
Scientific Poster Discussion
Fourth and Seventh Floor Foyers

12:30 PM–1:30 PM
Lunch Break in the Exhibit Hall
Westside Ballroom

1:30 PM–1:45 PM
AIUM Business Meeting
Ziegfeld

1:45 PM–3:15 PM
Categorical Courses
Five concurrent in-depth courses presented by top experts in the field are conducted during this period.

How to Obtain Great Abdominal/Vascular Images
Moderator: Marsha M. Neumyer, BS, RVT
Soho/Herald
This course will cover scanning skills, tips, and techniques for abdominal examinations, interventional procedures, and lower extremity examinations to help the sonographer and sonologist improve the percentage of high-quality diagnostic examinations. A review of basic techniques to tips that the experts use on those technically challenging patients will be discussed.

1:45 PM–2:15 PM
Basic Abdominal Scan and Doppler
Eric Meaders, MAED, RDMS, RVT

2:15 PM–2:45 PM
Ultrasound-Guided Procedures: Pearls and Pitfalls
M. Robert De Jong, RDCS, RDMS, RVT

2:45 PM–3:15 PM
How to Obtain Great Abdominal/Vascular Images
Marsha M. Neumyer, BS, RVT

Obstetric Magnetic Resonance Imaging
Moderator: Deborah Levine, MD
Broadway Ballroom North
This course will include an audience response system.

This course will cover magnetic resonance imaging (MRI) in the care of the pregnant patient with abdominopelvic pain and will illustrate the use of MRI in the care of the fetal surgery patient. Participants will discuss the impact of MRI on counseling and treatment of fetuses with central nervous system abnormalities.
Introduction
Deborah Levine, MD

Magnetic Resonance Imaging for Fetal Central Nervous System Anomalies
Ruth Goldstein, MD

Magnetic Resonance Imaging in Complex Fetal Anomalies and Fetal Surgery Patients
Deborah Levine, MD

Panel Discussion

The Silent Pathology: Scanning the Female Pelvic Floor
Moderator: Ilan Timor, MD

Broadway Ballroom South

The objective of this course is to familiarize obstetric and gynecologic practitioners and imaging specialists with the sonographic evaluation of the pelvic floor. A clinical overview will present the aspects of various pelvic floor pathologies, followed by an imaging presentation, which will touch on the sonographic and magnetic resonance imaging issues of examining involved structures, including the pelvic floor, urinary bladder, uterus, and anorectal sphincter mechanism.

Setting the Stage
Robert Porges, MD

Ultrasound and the Pelvic Floor and Anal Sphincter
Ilan Timor, MD

Can Magnetic Resonance Imaging Help?
Genevieve Bennett, MD

Update on Transcranial Doppler Applications
Moderator: Charles Tegeler, MD

Shubert Complex

Transcranial Doppler ultrasound (TCD) is an important neurodiagnostic method, with rapidly expanding clinical cerebrovascular applications, from infants to adults. This course will discuss 3 key uses of TCD and would be appropriate for anyone who performs or interprets cerebrovascular ultrasound studies.

Advances in Therapeutic Applications of Transcranial Ultrasound
Zsolt Garami, MD

Transcranial Doppler With Carotid Endarterectomy and Stenting
Tanja Rundek, MD

Transcranial Doppler for Sickle Cell Disease
Dorothy Bulas, MD

Vascular Ultrasound In Screening: Part II
Moderator: R. Eugene Zierler, MD

Marquis Ballroom

This course will cover the role of sonography in screening for aortic aneurysms, carotid intima-media thickening, and thromboembolic venous disease, as well as discuss the newest advances pertaining to these diagnoses and elaborate on future trends regarding improvement in diagnosis.
3:30 PM – 5:00 PM
Scientific Sessions

Six concurrent sessions, each including 7 presentations on the latest ultrasound research, are offered during this period.
* indicates presenter; (CR) indicates Case Report.

Emergency Ultrasound
Moderator: Arun Nagdev, MD
Gramercy/Olmstead

3:30 PM – 3:42 PM
297182 Utility of Focused Chest Ultrasound in the Diagnosis of Patients With Unexplained Dyspnea
Moore, Christopher L.*; Chen, Jeffrey; Lynch, Kristin; Osborne, Michael; Solomon, David

3:42 PM – 3:54 PM
295357 Focused Abdominal Sonography for Trauma as a Triage Tool in Multiple-Casualty Incidents
Beck-Razi, Nira*; Michaelson, Moshe; Gaitini, Diana E.

3:54 PM – 4:06 PM
296126 Technical and Interpretive Error Rates of the Focused Assessment With Sonography in Trauma Exam
Gaspari, Romolo; Montoya, Anthony*; Blehar, David; Dickman, Eitan

4:06 PM – 4:18 PM
297142 Emergency Department Screening of Abdominal Aortic Aneurysms by Bedside Ultrasonography
Holliday, R. Scott*; Moore, Christopher L.

4:18 PM – 4:30 PM
295160 Prospective Evaluation of Emergency Physician-Performed Bedside Ultrasonography in the Diagnostic Workup of Acute Appendicitis
Solley, Matthew*; Zlidenny, Alexander; Anderson, Craig; Fox, J. Christian

4:30 PM – 4:42 PM
282792 Utility of High-Frequency Transducer Sonography in Scrotal Trauma
Bhatt, Shweta*; Dogra, Vikram

4:42 PM – 4:54 PM
295354 Urgent Ultrasonography in the Diagnosis of Choledocholithiasis: Analysis of Factors Influencing Stone Detection
Yeh, Yung-Hsiang*; Chen, Chien-Hua; Yang, Chi-Chieh; Hwang, Min-Ho
Fetal Growth and Multiple Gestations
Moderator: Joan Mastrobattista, MD
Broadway Ballroom South
3:30 PM–3:42 PM
298260 Are Third-Trimester Growth Velocity Measurements Related to Newborn Infant Percent Body Fat? Lee, Wesley*; Sameera, Sameera; Deter, Russell L.; Gonçalves, Luís F.; Espinoza, Jimmy; Yao, Manjiang; Romero, Roberto

3:42 PM–3:54 PM
296211 Breast Cancer and Neoadjuvant Chemotherapy: Effect on Fetal Growth Ramirez, Mildred R.*; Fonseca, Linda; Hahn, Karin M.E.; Theriault, Richard L.

3:54 PM–4:06 PM
297590 The Fetal Midphalanx of the Fifth Digit: Normal Ossification Process Between 13 and 17 Weeks of Gestation Zalel, Yaron*; Achiron, Reuven; Kivilevich, Zvi

4:06 PM–4:18 PM
297350 Ethnic Variations of Sexual Dimorphism in Fetal Growth Edwards-Silva, Racine*; Ogunyemi, Dotun; Hobel, Calvin

4:18 PM–4:30 PM
296179 Ultrasound Prediction of Actual Birth Weight and Discordance in Diamniotic-Dichorionic Twins Belogolovkin, Victoria*; Ferrara, Lauren; Mosher, Erin; Eddleman, Keith; Stone, Joanne L.

4:30 PM–4:42 PM
297281 Accuracy of Sonographic Twin Discordance Estimates at ≥32 Weeks’ Gestation Lee, Young M.*; McLean, David

4:42 PM–4:54 PM
296060 Ultrasoundographic Determination of Amniotic Fluid Volume in Twin Pregnancy Using the Largest Vertical Pocket Technique Feldman, Noa F.*; Singer, Tomer; Sicherman, Nachum; Mintz, Jessica C.; Barnhard, Yoni; Divon, Michael Y.

Gynecologic Ultrasound
Moderators: Sherelle Laifer-Narin, MD, and Patricia Mayberry, RDMS, RVT
Astor Ballroom
3:30 PM–3:42 PM
297329 Value of 3-Dimensional Sonography in Women With Intrauterine Devices Lev-Toaff, Anna S.; Pretorius, Dolores*; Baltarowich, Oksana

3:42 PM–3:54 PM
283844 Accuracy of Sonohysterography at Identifying Intrauterine Lesions: A Retrospective Review Busse, Raydeen M.*; Brown, Keri M.; Zalud, Ivica

3:54 PM–4:06 PM
295809 Three-Dimensional “Thick-Slice” Rendering of Suspected Uterine Malformation Obviates the Use of Saline Infusion Sonohysterography to Establish the Diagnosis Monteagudo, Ana; Timor, Ilan*; Strok, Irina
Sonohysterography Biopsy Device: More Efficient, Less Discomfort, and Accurate Pathology
Cox, Ted R.

Sonohysterography and Age-Based Pathologic Correlation
Shwayder, James M.*; Brown, William W.; Granadillo, Ann

Three-Dimensional Inversion Rendering Helps in the Sonographic Definition of Fluid-Filled Tubes
Timor, Ilan*; Monteagudo, Ana; Tsymbal, Tanya

Experience With Sparkling Spring Water as a Contrast Agent in 264 Patients of a Tubal Patency Test
Hasan, Musarrat*; Musarrat, Seema

Obstetrics: Anomalies
Moderators: Teresita Angtuaco, MD, and Christine Bird, RDMS, RVT
Broadway Ballroom North

Evaluation of Early Markers of Prenatal Alcohol Exposure
Kfir, Menashe*; Hull, Andrew D.; Yevtushok, Lyubov; Onishchenko, Svetlana; Wertelecki, Wladimir; Bahireva, Ludmila; Chambers, Christina D.; Jones, Kenneth L.

Fetal Lung Measurements in Isolated Congenital Diaphragmatic Hernia
Ruano, Rodrigo*; Aubry, Marie C.; Dumou, Yves; Benachi, Alexandra; Zugaid, Marco

Prenatal Diagnosis and Postnatal Outcomes of Fetal Thoracic Lesions Diagnosed by Prenatal Ultrasound at the University of California, Irvine
Friedrich, Esther*; Hameed, Afshan; Porto, Manuel

Management of Mild Fetal Pyelectasis: A Comparative Analysis
Yamamura, Yasuko*; Swartout, Jessica; Anderson, Elisabeth; Knapp, Carla; Ramin, Kirk

Antenatal Course of Mild Fetal Pyelectasis Based on Fetal Gender
Yamamura, Yasuko*; Swartout, Jessica; Davis, Sarah; Lund, Vanessa; Ramin, Kirk

Sacrococcygeal Teratoma: Prenatal Surveillance, Growth, and Pregnancy Outcome
Wilson, Robert D.*; Johnson, Mark P.; Bebbington, Michael W.; Mann, Stephanie E.; Hedrick, Holly L.; Flake, Alan W.; Rychik, Jack; Adzick, N. Scott

Prenatal Diagnosis of Retinoblastoma (CR)
Zuidema, Laura J.*; Platt, Nancy; Binder, Paula; Zondag, Sara; Aaberg, Thomas
Tissue Characterization

Moderators: James Miller, MS, PhD, and Ernest Feleppa, PhD
Soho/Herald
3:30 PM–3:42 PM
293819 Recovering the Underlying Material Properties of Bone Using Bayesian Probability Theory From Mixed Mode Signals Exhibiting Anomalous Negative Dispersion Miller, James G.; Marutyan, Karen R.; Holland, Mark R.; Bretthorst, G. Larry
3:42 PM–3:54 PM
297292 In Vivo Real-time Sonoelastography for High-Intensity Focused Ultrasound Lesion Detection in a Swine Model Zhang, Man; Castaneda, Benjamin*; Christensen, Jared; Saad, Wael; Bylund, Kevin; Rubens, Deborah; Parker, Kevin
3:54 PM–4:06 PM
297025 Conventional Low-Frequency Ultrasound Detection of Apoptosis Azrif, Muhammad; Ranieri, Shawn; Giles, Anoja; Debeljivic, Branislaw; Kolios, Michael C.; Czarnota, Gregory J.*
4:06 PM–4:18 PM
297099 Improvements in Tissue-Type Imaging of Prostate Cancer Based on Combined Ultrasonic and Magnetic Resonance Methods Feleppa, Ernest*; Dasgupta, Shreedevi; Porter, Christopher; Lacrampe, Marc; Ramachandran, Sarayu; Ketterling, Jeffrey
4:18 PM–4:30 PM
297197 Validating the Theoretical Framework Relating Ultrasonic Backscatter to Scatterer Properties Dasgupta, Shreedevi*; Rondeau, Mark; Feleppa, Ernest; Mamou, Jonathan
4:30 PM–4:42 PM
293680 High-Frequency Characterization of Cell Death Ranieri, Shawn; Vlad, Roxana; Giles, Anoja; Papanicolau, Mike; Kolios, Michael C.; Czarnota, Gregory J.*
4:42 PM–4:54 PM
297242 An Investigation of the High-Frequency Ultrasonic Backscatter From Ensembles of Cells and Cell Analogues Baddour, Ralph E.*; Czarnota, Gregory J.; Kolios, Michael C.

Vascular Ultrasound

Shubert Complex
3:30 PM–3:42 PM
277643 Imaging Spectrum of Portal Vein Aneurysm Roy, Nicole*; Burdette, Allene; Shaaban, Akram; Hutson, William R.; Schwartz, Jason; Kennedy, Anne
3:42 PM–3:54 PM
295849 Acoustic Barrier Artifact in Doppler Ultrasound Evaluation of Expanded Polytetrafluoroethylene-Covered Transjugular Intrahepatic Portosystemic Shunt Stents Takeyama, Peter H.*; Dogra, Vikram
3:54 PM–4:06 PM
294714 Femoral Artery Pseudoaneurysms: Thrombin Injection Versus Compression Repair Romera Villegas, Antonio*; Vila-Coli, Ramon; Cairols-Castelote, Marc; Iborra-Ortega, Elena; Herranz-Pinilla, Carolina; Santos-Espi, Marta
4:06 PM–4:18 PM
294965 Ultrasonic Tissue Characterization of In Vivo Atherosclerotic Carotid Plaque
Shi, Hairong; Varghese, Tomy*; Mitchell, Carol C.; Kliewer, Mark A.; Salamat, Shariar M.; Dempsey, Robert J.

4:18 PM–4:30 PM
287796 Real-time B-Mode Ultrasonography of Intima-Medial Thickness in Carotid Arteries: A Case-Control Study
Sultana, Nasreen*; Alam, Farid; Afroz, Shirin

4:30 PM–4:42 PM
297304 A Noninvasive Imaging Technique for Characterization of Vascular Mechanical Properties In Vivo and Detection of Disease
Fujikura, Kana; Luo, Jianwen*; Gamarnik, Viktor; Fukumoto, Royd; Tilson, David M. III; Konofagou, Elisa E.

4:42 PM–4:54 PM
277157 Influence of Sex and Somatotype on Stroke Work
Adamu, Abdullahi A.*; Babaev, Mikhail V.; Kondrashev, Alexandr V.; Nelasov, Nikolai Y.; Yeroshenko, Olga L.; Chaplygina, Helena V.

3:30 PM–5:00 PM
Just Images Session: Abdominal and Musculoskeletal Ultrasound
Marquis Ballroom
Participants discuss and view unique abdominal and musculoskeletal ultrasound cases.

Marnix van Holsbeeck, MD, William Medford, RDMS, Nirvikar Dahiya, MD, and Christine Menias, MD
Meet-the-Professor Sessions

Friday, March 16, 2007
7:00 AM–8:00 AM

FA1 Volume Sonography: A New Era in Efficiency and Diagnosis, Including Fetal Anomalies
Beryl Benacerraf, MD
Ziegfeld
In this session, participants will discuss the principles of 3-dimensional sonography and its applications for fetal scanning. The session will teach participants how to evaluate the different types of displays available, evaluate an ultrasound volume, and perform a very fast and efficient fetal survey using volume scanning rather than standard 2-dimensional images.

FA2 The 14- to 16-Week Anatomic Survey
Ana Monteagudo, MD
O’Neill
Following this session, participants should be able to describe the advantages, as well as the limitations, of the early fetal scan.

FA3 Diagnosis of Fetal Anemia With Doppler Ultrasound
Giancarlo Mari, MD
Brecht
At the end of this session, participants should be able to describe the causes of fetal anemia, discuss the difference between invasive and noninvasive procedures to diagnose fetal anemia, describe the use of the middle cerebral artery peak systolic velocity to diagnose fetal anemia, and discuss the standard of care for the diagnosis of fetal anemia.

FA4 Imaging of the Pediatric Liver and Biliary Tree
Harriet Paltiel, MD
Wilder
Following this session, participants should be able to discuss the imaging evaluation of neonatal jaundice, portal hypertension, and primary liver tumors in children.

FA5 Scrotal Ultrasound Update
Thomas Winter, MD
Odets
This didactic lecture will review proper sonographic techniques for scrotal examination, review normal anatomy of the scrotum as demonstrated by ultrasound, and then progress to a description of the common pathologic conditions seen in this area. Specific topics include infection, torsion, evaluation of testicles, and evaluation after trauma, varicoceles, vasculitis, and testicular microlithiasis.

Friday, March 16, 2007
11:45 AM–12:45 PM

FP1 Nonchromosomal Significance of Elevated First-Trimester Nuchal Translucency
Ray Bahado-Singh, MD
O’Neill
Following this session, participants will be able to describe and counsel patients on the association between elevated nuchal translucency (NT) and congenital heart defects, the risk of other congenital anomalies and poor pregnancy outcomes associated with elevated NT and normal chromosomes, and an approach and management plans for cases with elevated NT and normal chromosomes.

FP2 Ultrasound Evaluation of Fetal Cardiac Function
Gregory DeVore, MD
Ziegfeld
Following this session, participants should be able to evaluate the function of the fetal heart using B-mode, M-mode, and pulsed Doppler ultrasound.
Ultrasound of the Gallbladder and Bile Ducts: A Logical Approach
Suhas Parulekar, MD

In this session, sonographic appearances of gallbladder abnormalities will be discussed, with an emphasis on differentiating features of gallbladder diseases with similar sonographic appearances or features. Abnormalities of the extrahepatic and intrahepatic bile ducts will be discussed with a similar approach. The use of color Doppler sonography in the evaluation of the biliary tree will also be discussed. Following this session, participants should be able to understand and discuss the biliary tract abnormalities and differentiating features of similar-appearing abnormalities.

Three-Dimensional Ultrasound in the Abdomen: Technology, Applications, and Work Flow
Franklin Tesler, MD, CM

Following this session, participants should be able to understand how changing technology affects clinical utility, describe clinical applications of 3-dimensional (3D) ultrasound in the abdomen, and discuss ways of incorporating 3D ultrasound into work flow.

Avoiding Pitfalls in Obstetric Ultrasound
Carolyn Zelop, MD

Following this session, participants should be able to identify variants of normal anatomy that might appear pathologic, implement techniques to refine a complex sonographic diagnosis, and avoid potential diagnostic errors by implementing a systematic approach to sonographic anomalies.

Saturday, March 17, 2007
6:45 AM–7:45 AM

Analytic Approaches for Volume Sonography
Wesley Lee, MD

Following this session, participants will be able to discuss how to use several 3- and 4-dimensional volume data analysis tools for fetal evaluation.

Coding Issues in Obstetric Ultrasound
Joshua Copel, MD

Following this session, participants will be able to discuss different options and current changes in Current Procedural Terminology (CPT) coding for obstetric sonography.

Duplex and Color Doppler Evaluation of the Abdominal Vessels
John Pellerito, MD

Following this session, participants will be able to recognize normal and abnormal abdominal Doppler waveforms; discuss the criteria for the diagnosis of arterial stenosis and occlusion; identify the signs associated with abdominal venous thrombosis; and assess techniques to optimize the abdominal Doppler examination.

Surveillance of Chronic Liver Disease: The Role of Sonography
Stephanie Wilson, MD

Following this session, participants should understand the important role of chronic viral hepatitis in development of cirrhosis, appreciate the risk of hepatocellular carcinoma in those with chronic liver disease, and know the role of sonography in the surveillance of this high-risk population.
SAT5 Breast Cancer Staging With Sonography
Gary Whitman, MD
Brecht
Following this session, participants should be able to discuss sonographic staging in the breast and the regional lymph nodes in women with breast cancer.

Saturday, March 17, 2007
12:15 PM–1:15 PM

SATP1 Breaking Bad News: Can We Make It Any Less Painful?
Bryann Bromley, M.D
O’Neill
Following this session, participants will have developed strategies for delivering bad, sad, or difficult news in a concise and empathetic manner.

SATP2 Ultrasound-Guided Biopsies: What You Need to Know
Ulrike Hamper, MD, MBA
Brecht
After attending this session, participants will be able to discuss the use of ultrasound for image-guided percutaneous fine-needle aspiration procedures in the abdomen and chest. Indications, contraindications, techniques, and complications will be covered.

SATP3 Obstetric Imaging With Magnetic Resonance Imaging
Deborah Levine, MD
Ziegfeld
Following this session, participants should be able to describe the use of obstetric magnetic resonance imaging for maternal diagnosis in the abdomen and describe the utility of fetal magnetic resonance imaging in cases with a complex sonographic diagnosis.

SATP4 Sonography of Abdominal Wall Hernias
Cindy Rapp, BS, RDMS
Odets
Following this session, participants will be able to explain how to locate the internal inguinal ring, recognize the contents of abdominal wall hernias, and list the various locations of abdominal wall hernias.

SATP5 Doppler Artifacts and Pitfalls
Deborah Rubens, MD
Wilder
The Doppler effect measures a change in the reflected sound frequency generated by motion. While we commonly think of (and use) the Doppler effect to measure flowing blood, any tissue or fluid motion may generate a Doppler signal. Additional technical errors occur due to gain, Doppler filter settings, sample angle correction, Doppler sampling angles, and choice of Doppler frequency. Following this session, participants should be able to identify the Doppler effect along with artifacts and their technical pitfalls.

Sunday, March 18, 2007
7:00 AM–8:00 AM

SUNA1 Tricks of the Trade
Alfred Abuhamad, MD
O’Neill
This session focuses on sharing tips in obstetric sonography. Following the lecture, participants should be able to improve performance of ultrasound diagnosis of congenital abnormalities and fetal growth restriction.
SUNA2  Multiple Gestations  
Carol Benson, MD  
Ziegfeld  
After this session, participants should understand the importance of sonography in diagnosing fetal number and determining placentation for each fetus in a multiple gestation; recognize the sonographic appearance of various complications related to placentation type; recognize complications of multiple gestations related to growth disturbances and how to diagnose these with sonography; and understand the indications for sonography of multiple gestations.

SUNA3  Neonatal Neurosonology  
Dorothy Bulas, MD  
Brecht  
Following this session, participants should be able to perform a comprehensive cranial ultrasound exam, including the use of Doppler imaging and additional views such as the transmastoïd view.

SUNA4  Obstetric Measurements: Which Ones Are Important?  
Peter Doubilet, MD  
Odets  
Following this session, participants should be able to identify which measurements should be obtained routinely in obstetric ultrasound and which should be obtained only in select cases.

SUNA5  Translating Clinical Care Into Income: Utilizing the RBRVS System to Understand How What You Do Creates What You Earn  
Robert Wolfson, MD, PhD  
Wilder  
There is a direct correlation between the clinical services we provide and the income we earn. The Resource-Based Relative Value Scale (RBRVS) system is the basis of that relationship. Participants of this session will learn how that translation occurs and how to apply that knowledge in their practice to maximize income.

Sunday, March 18, 2007  
12:30 PM–1:30 PM

SUNP1  Ultrasound Imaging of Angiogenesis  
Flemming Forsberg, PhD  
Wilder  
Following this session, participants should be able to describe the angiogenic process, describe ultrasound contrast agents and the associated nonlinear imaging modes, and discuss the ability of contrast ultrasound imaging to monitor angiogenesis and angiogenic therapies.

SUNP2  Nuts and Bolts of 3- and 4-Dimensional Ultrasound  
Luís Gonçalves, MD  
Brecht  
This is a practical, how-to session where participants will be presented first with the basic concepts of 3-dimensional (3D) ultrasonography ranging from multiview imaging to rendering techniques. The session will cover 3D-ultrasound, 4D ultrasound, spatiotemporal image correlation for the evaluation of the fetal heart, as well as real-time 3D imaging using 2D matrix array transducers. The focus of the session will be on the practical approach to exploring volume data sets using off-line tools.

SUNP3  Interventional Musculoskeletal Ultrasound Update  
Levon Nazarian, MD  
Odets  
Following this session, participants should be able to discuss the use of ultrasound to guide a wide range of musculoskeletal interventional procedures.
Scientific Poster Sessions

Posters are available for viewing Friday, March 16, 12:45 PM – 7:30 PM, Saturday, March 17, 7:00 AM – 5:30 PM, and Sunday, March 18, 7:00 AM – 3:30 PM. Authors will be available to discuss their research presented on the following posters on Saturday, March 17, 12:15 PM – 1:15 PM, and Sunday, March 18, 12:30 PM – 1:30 PM. Posters are listed and displayed in numerical order (not by specialty).

* indicates presenting author (1 CME credit per day during discussion)

Posters are located on the Fourth and Seventh Floor Foyers.

Saturday, March 17, 2007

The following posters will be located on the Fourth Floor Foyer.

272430 Compressibility Assessment of Affected Bowel in Sonographic Diagnosis of Gastrointestinal Lymphoma Fuji, Yasutomo*; Taniguchi, Nobuyuki; Koibuchi, Harumi; Yasuda, Yoshikazu; Nagai, Hideo

278450 Some Ultrasonographic Peculiarities in the Anatomy of Abdominal Organs Chaplygina, Helen V.*; Nelassov, Nikolai Y.; Kondrashev, Alexandr V.; Morosova, Antonina V.; Volkov, Gennady P.; Adamu, Abdullahi A.

282490 Emergent Evaluation of Right Upper Quadrant Pain Chandrasekhar, Chitra A.

282794 Imaging of Uterine Abnormalities With Color Flow Doppler. Bhatt, Shweta*; Dogra, Vikram

284200 Doppler Sonography of the Testis in Men With Idiopathic Hypogonadotropic Hypogonadism Degirmenci, Bumin*; Haktanir, Alpay; Albayrak, Ramazan; Acar, Murat; Yucel, Aylin

289073 Randomized Controlled Trial of Ultrasound-Guided Knee Arthrocentesis in the Emergency Department Pariyadath, Manoj; Tayal, Vivek S.*; Norton, James

289077 Randomized Controlled Trial of Ultrasound-Guided Peripheral Nonknee Arthrocentesis in the Emergency Department: Tayal, Vivek S.*; Pariyadath, Manoj; Norton, James

289078 The Accuracy of Trauma Ultrasound in Penetrating Trauma to the Anterior Abdomen Rochester, Angel L.; Tayal, Vivek S.*; Marx, John A.; Thomason, Michael H.

289084 Prospective Comparative Trial of the Sonographic Endovaginal Bimanual Examination Versus Traditional Digital Bimanual in Nonpregnant Adult Female Patients With Lower Abdominal Pain in the Emergency Department With Stratification by and Randomization Within Body Mass Index Classification Tayal, Vivek S.*; Crean, Christopher A.; Norton, James; Schulz, Christian J.; Bacalis, Katrina N.; Bliss, Susan A.

289087 Outcomes for Ectopic Pregnancy Patients With Indeterminate Pelvic Ultrasound Using a Modified Carolinas Medical Center Ultrasound Protocol With Selective Gynecologic Consultation Tayal, Vivek S.; Forgash, Andrew J.; Norton, James
Effect of Maternal Hydration on Maternal Renal Pelvic-Calyceal Diameter in Pregnancy
Nyholm, Jessica L.*; Brost, Brian C.; Watson, William J.

Do Introductory Courses in Emergency Ultrasound Affect the Utilization of Ultrasound by Emergency Physicians?
Louis, Hunter G.*; Cook, Thomas P.; Hunt, Patrick S.; TaTinisha, Favor

Congenital Cystic Adenomatoid Malformation Volume Ratio: Risk of Fetal Hydrops
Wu, Danny W.*; Miller, Russell; Simpson, Lynne

Circumvallate Placenta: Implications for Perinatal Outcome
Greenberg, Mara B.*; Caughley, Aaron B.; Goldstein, Ruth B.; Norton, Mary E.

Sonography of Genitourinary Tuberculosis With Emphasis on High-Resolution and 3-Dimensional Imaging
Dahiya, Nirvikar*; Teefey, Sharlene; Middleton, William D.; Siegel, Cary L.; Dahiya, Neha; Vijayaraghavan, Boopathy

The Effect of Probe Axis and an Echo-Enhanced Needle on Ultrasound-Guided Vascular Access
Phelan, Michael P.; Colburn, Nora; Buchanan, Kelly; Bower, John*; Sturges, Lisa; Emerman, Chuck

Determination of the Precision of a Clinical Carotid Intima-Media Thickness Measurement Protocol for Patient Screening and Follow-up
Ocel, Joseph J.*; Hangiandreou, Nicholas J.; James, E. Meredith; McBane, Robert D.; Beck, Rebecca J.; Hatz, Heather J.; Lindsey, John D.; Paepke-Tollefsrud, Diana E.

The Spectrum of Appearances of Endometriomas
Asch, Elizabeth*; Levine, Deborah

Sonographic Evaluation of the Postthyroidectomy Neck
Ackerman, Susan*; Harper, Angelie; Anis, Munazza; Irshad, Abid

An Overview of Pancreas Transplant: Role of Sonography With Other Imaging Correlation
Irshad, Abid*; Ackerman, Susan; Anis, Munazza; Harper, Angelie; Chavin, Keneth

Difference of Migration and Outcome of Placenta Previa at the Second Trimester According to the Placental Location
Lee, Jung Ha*; Cho, Jeong Yeon; Moon, Min Hoan

Three-Vessel View of the Fetal Heart: In Utero Development of the Great Vessels
Lee, Jung Ha*; Park, Eun Jung; Moon, Min Hoan; Min, Jee Yeon

Accuracy of Estimated Fetal Weight by Ultrasound Based on Gestational Age
Jari, Shama*; Bird, Chris; Crino, Jude; Holcroft, Cynthia
296169  Ultrasonographic Assessment of Ovarian Tumors in Laying Hens  
Barua, Animesh; Bradeler, Michael J.; Edassary, Seby L.; 
Abramowicz, Jacques S.*; Bitterman, Pincas; Dirk, 
Angela; Bahr, Janice M.; Luborsky, Judith L.

296319  Ultrasonographic Diagnosis of Duodenal Stenosis: 
Correlation Between Ultrasonography and Pathologic Forms  
Sugai, Michihiro*; Ohashi, Motonari; Munakata, Hirohumi

296484  Early Diagnosis in Ovarian Cancer: Role of Transvaginal Color Doppler Ultrasound— 
A 7-Year Experience  
Pascual, Maria A.*; Hereter, Lourdes; Graupera, Betlem; 
Tresserra, Francisco; Rodriguez, Ignacio; Deveus, Santiago

296499  Three-Dimensional Power Doppler Ultrasonographic Features in Endometrial Carcinoma  
Graupera, Betlem*; Pascual, M. Angela; Tresserra, 
Francisco; Rodriguez, Ignacio; Hereter, Lourdes; 
Fernandez-Cid, Maria

296597  The Effect of Inguinal Hernia on the Ipsilateral Testicular Volume and Blood Flow  
Turgut, Ahmet T.*; Olcucuoğlu, Olsun; Turan, Ceyda; 
Kılıçoğlu, Bulent; Kosar, Pınar; Geyik, Pınar O.; Kosar, Ugur

296662  Evaluation of the Sensitivity and Specificity of Focused Assessment With Sonography in Trauma in Blunt Trauma in the Pediatric Population  
Cusick, Seric*; Gharahbagian, Laleh; Boysen, Megan; 
Solley, Matthew; Anderson, Craig; Barrajás, Graciela; 
Fox, J. Christian

296738  Color Doppler Diagnosis of Acute Appendicitis  
Vo, T'ai Anh*; Le, T'ai Van; Phan, Hai Thanh

296796  Positive Predictive Values of Sonographic Features of Solid Thyroid Nodules  
Son, Eun Ju*; Kim, Eun-Kyung; Oh, Ki Keun

296809  The Safety and Efficiency of Ultrasound-Guided Large-Needle Core Biopsy of Axilla Lymph Nodes  
Son, Eun Ju*; Kim, Eun-Kyung; Oh, Ki Keun

296878  Association Between Power Doppler Ultrasound Vascular Density and Prostate-Specific Antigen Response of Early Prostate Cancer to Radiation Therapy  
Sehgal, Chandra M.*; Arger, Peter H.; Krisch, Robert E.

296931  Initial Experience With an Automated System for Measuring Ultrasound Image Quality  
Tradup, Donald J.*; Johnson, Luke A.; Stekel, Scott F.; 
Hangiandreou, Nicholas J.

296965  Evaluation of High-Frequency Tissue-Mimicking Phantoms  
Lloyd, Harriet O.*; Silverman, Ronald H.; 
Coleman, D. Jackson
285161 Trisomy 13: Sonographic Detection in the First and Second Trimesters of Pregnancy
Watson, William J.*; Miller, Richard C.; Wax, Joseph R.; Hansen, Wendy F.; Yamamura, Yasko

293605 Women at Risk: The Role of Ultrasound in the Early Identification of Cardiovascular Disease
Postley, John

295833 Ultrasound of Wrist Ganglion Cysts: Variable and Noncystic Appearances
Wang, George*; Feng, Felix Y.; Jacobson, Jon A.; Girish, Gandikota; Caoli, Elaine; Ebrahim, Farhad

296031 Utility and Pitfalls of Saline Infusion Sonourethrography
Robinson, Ashley J.*; Goldstein, Ruth

296388 Outcomes for Monochorionic Diamnionic Twins Discordant for First-Trimester Cystic Hygroma or Large Nuchal Translucency
Reiss, Rosemary E.*; Gerrol, P.; Athanassiou, A.; Wilkins-Haug, L.; Benson, C.

296538 Effect of Compounding on Ultrasound Images of Solid Breast Masses
Schultz, Susan M.*; Kangas, Sarah A.; Conant, Emily F.; Weinstein, Susan P.; Arger, Peter H.; Schnall, Mitchell D.; Sehgal, Chandra M.

296601 Emergency Ultrasound Findings Correlate With Pregnancy Outcome in Emergency Department Patients With First-Trimester Vaginal Bleeding
Cusick, Seric*; Sampson, Sehra; Solley, Matthew; Barrajas, Graciela; Fox, J. Christian

296848 Tendon and Ligament Injuries in Hand and Wrist Trauma: High-Frequency Ultrasound With a Dynamic Study
Lee, Sang Min*; Ha, Doo Hoe; Kim, Kyung Ah
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Questions about your course schedule?
Need help locating a room for a session?

Visit the AIUM registration area in the fifth floor foyer—just outside the Exhibit Hall—for answers to any of your convention questions. See page 3 for Registration Hours.
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Fax: 44-20-7471-9959
E-mail: info@isuog.org
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Website: http://www.NTQR.org
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Too often, advanced medical technology serves to complicate everyday workflow. Philips designs medical technology to simplify our lives. At times, the desire to provide top-quality patient care can conflict with financial realities. Today, let’s find a way to better health for patients and hospitals. With technology that’s advanced, yet easy to experience. Truly customized services for multivendor environments. Clinical excellence with increased productivity. Experience what Philips can offer to meet your needs in radiology, cardiology, oncology, women’s health, emergency and critical care, and molecular imaging. Rediscover those moments of triumph with Philips—It just makes sense.
SonoSite, Inc
21919 30th Dr SE
Bothell, WA 98021 USA
Phone: 877-657-8050
Fax: 425-951-6800
E-mail: admin@sonosite.com
Website: http://www.sonosite.com
SonoSite is the recognized innovator and world leader in hand-carried ultrasound. The company shipped its first products in 1999 and today is one of the fastest growing ultrasound medical technology companies with an installed base of more than 25,000 units worldwide. All SonoSite systems weigh less than 8 pounds, boot up in seconds, are designed to withstand the rigors of highly mobile use, and can operate on battery power for up to 4 hours if needed. SonoSite’s MicroMaxx system, its third generation of leading hand-carried technology, even comes with a standard 5-year warranty.

Sonultra Corporation
6345 Balboa Blvd, Suite 360
Encino, CA 91316 USA
Phone: 310-877-5702
Fax: 310-861-9054
E-mail: dparker@sonultra.com
Website: www.sonultra.com
Sonultra Corporation, established 1986, has equipped 2000+ maternal-fetal medicine, obstetrics and gynecology, and radiology specialists with automation reporting and image management tools, improving their productivity. Resolving many of the limitations found in today’s hospital and private-office-based reporting/image management solutions, Sonultra offers hospital-quality solutions priced for the private practitioner. Integration services utilizing your existing hospital HIS/RIS or DICOM PACS solutions are also available.

Sorna Corporation
2020 Silver Bell Rd, Suite 17
Eagan, MN 55122 USA
Phone: 651-406-9900, 866-767-6226
Fax: 651-406-9904
E-mail: info@sorna.com
Website: http://www.sorna.com
The FilmX family of networked, automated DICOM CD/DVD recorders set the gold standard for Integrating the Healthcare Enterprise (IHE) Portable Data for Imaging (PDI) portable media production. Powered by eXpedo software, FilmX supports MPEG2 ultrasound image acquisition and incorporates Health Insurance Portability and Accountability Act (HIPAA)-conformant database tools. Work flow profiling automates creation of multiple customized CD/DVD formats. Each contains a US Food and Drug Administration-approved LiteBox DICOM viewer.

SoundAid
625 Griffith Rd, Suite 100
Charlotte, NC 28217 USA
Phone: 866-523-1931
Fax: 866-523-1932
SoundAid is an innovative probe repair company offering comprehensive repair options with a focus on ease of use and fast turnaround times.

Sound Ergonomics, LLC
6830 NE Bothell Way, Suite C-236
Kenmore, WA 98028 USA
Phone: 425-489-3839, 877-417-8151
Fax: 425-489-9030
E-mail: ctcoffin@soundergonomics.com
Website: http://www.soundergonomics.com
Sound Ergonomics, LLC, provides consulting services and ergonomic products for the prevention of occupational musculoskeletal disorders in allied health personnel. Services include educational programs, workshops, clinical site evaluations, and room design consultation. Products include support cushions, cable support arm bands and wrist supports, computer workstation desks, monitor mounts, ergonomic exam tables, and seating.

Sound Technology, Inc
1363 S Atherton St
State College, PA 16801 USA
Phone: 814-234-4377, 814-235-3740
Fax: 814-234-5033
E-mail: rick.edmiston@sti-ultrasound.com
Website: http://www.sti-ultrasound.com
Sound Technology, Inc, a subsidiary of Analogic Corporation, offers a complete line of diagnostic medical ultrasound probes and transducers for original equipment manufacturer ultrasound system manufacturers. Its product portfolio, supporting a broad range of clinical applications, includes micro convex, linear, curved linear, phased, and mechanical 3D/4D probe designs as well as single-element transducers.
Toshiba America Medical Systems, Inc
2441 Michelle Dr
Tustin, CA  92780 USA
Phone: 800-421-1968
Fax: 714-505-3076
Website: http://www.medical.toshiba.com
An innovator in medical imaging technology, Toshiba America Medical Systems markets, sells, distributes, and services diagnostic imaging systems throughout the United States. Toshiba is committed to providing its customers with the patient-focused technology and optimum system performance needed to succeed in today's health care marketplace. From the development of the first electric scan-type ultrasound in 1977 to our landmark shipment of 150,000 ultrasound systems in 2004, Toshiba is dedicated to meeting your ultrasound needs whether you are looking for a high-end or an economical system.

Ultrasonix Medical Corporation
301-3480 Gilmore Way
Burnaby, BC, Canada V5G 4Y1
Phone: 866-437-9508, 604-437-9500
Fax: 604-437-9502
E-mail: info@ultrasonix.com
Website: http://www.ultrasonix.com
Ultrasonix Medical Corporation is a privately held corporation specializing in ultrasound and informatics. Ultrasonix is dedicated to providing its customers with superior ultrasound solutions and support. Working in partnership with a growing network of global partnerships, Ultrasonix is constantly expanding its coverage and services, making its leading-edge technology available around the world.

VisualSonics Inc
3080 Yonge St, Suite 6100, Box 66
Toronto, ON, Canada M4N 3N1
Phone: 866-416-4636
Fax: 416-484-5001
E-mail: info@visualsonics.com
Website: http://www.visualsonics.com
VisualSonics is the leading developer of high-resolution in vivo micro imaging systems designed specifically for noninvasive small-animal research. High-resolution imaging allows the small-animal researcher to derive results in ways that were previously possible to imagine but extremely difficult to achieve. The Vevo 770 enables in vivo assessment of anatomic structures and hemodynamic function in longitudinal studies of small animals.

Zonare Medical Systems, Inc
1061 Terra Bella Ave
Mountain View, CA 94043 USA
Phone: 650-230-2800, 877 966 2731
Fax: 650-230-2828
E-mail: info@zonare.com
Website: http://www.zonare.com
Zonare developed the world's first and only convertible ultrasound system. Based on revolutionary Zone Sonography technology, Zonare's z.one ultrasound system converts from a full-featured, cart-based unit to a premium compact system at the touch of a button. Premium ultrasound with numerous advanced hardware and software upgrades available. Anywhere. Anytime.
Product Listing

Computers
Software
AS Software, Inc
ContextVision AB
Digiomics, Inc
Fetal Medicine Foundation USA
GE Healthcare
Medipattern Corporation
Sorna Corporation
Systems
GE Healthcare
Medipattern Corporation
Consultants/Service
Equipment Testing/Quality Control
Fetal Medicine Foundation USA
GE Healthcare
Gammex rmi
SonoDepot
Financing/Leasing
GE Healthcare
Gammex rmi
Mobile Medical Service/Equipment
SonoDepot
Placement Service/Recruitment
SonoDepot
Repair/Service
GE Healthcare
SonoDepot
Display Monitors
GE Healthcare
SonoDepot
Sound Ergonomics, LLC

Education
Accreditation
American Institute of Ultrasound in Medicine (AIUM)
Fetal Medicine Foundation USA
Lenexa Medical Screening Laboratory, Inc
Certification
Fetal Medicine Foundation USA
Education Software
Fetal Medicine Foundation USA
Institution/Society
American Institute of Ultrasound in Medicine (AIUM)
Center for Medical Genetics
Fetal Medicine Foundation USA
International Society of Ultrasound in Obstetrics and Gynecology (ISUOG)
Medical Texts and References
Publications
ADVANCE News magazines
Center for Medical Genetics
Diagnostic Imaging Magazine
Fetal Medicine Foundation USA
Sound Ergonomics, LLC
Simulators
ATS Laboratories, Inc
Training
Fetal Medicine Foundation USA
GE Healthcare
GeneCare Medical Genetics Center
Mary Washington Hospital/MediCorp Health System
Sound Ergonomics, LLC
Videotapes
American Institute of Ultrasound in Medicine (AIUM)
Sound Ergonomics, LLC
Internet Services/E-Commerce
Fetal Medicine Foundation USA
Philips Medical Systems

Medical Books/Journals/
Multimedia Products
Center for Medical Genetics
Fetal Medicine Foundation USA
Lippincott Williams & Wilkins
Saunders/Elsevier

Mouthpiece/Bite Blocks
CIVCO Medical Solutions

Original Equipment Manufacturer (OEM) Products/Supplies
OEM Doppler Peripherals
ContextVision AB
SonaCorporation
OEM Probes
SonoDepot
Sound Technology, Inc

Picture Archiving and Communications Systems (PACS)
Acquisition Devices
SonaCorporation
Mini PACS
AS Software, Inc
Workstations
GE Healthcare
Philips Medical Systems

Quality Assurance/Testing Equipment
Hydrophones
Phantoms
ATS Laboratories, Inc
CIRS, Inc
Gammex rmi
SonoDepot

Research and Development
Center for Medical Genetics
GeneCare Medical Genetics Center
Longoport, Inc
Sound Technology, Inc
Ultrasonix Medical Corporation
VisualSonics, Inc

Supplies
Amniocentesis Trays
Center for Medical Genetics
Cook Women’s Health
GeneCare Medical Genetics Center
Biopsy Equipment
CIVCO Medical Solutions
Cameras
SonoDepot
Catheters
Cook Women’s Health
Cooper Surgical, Inc
Disinfectants/Cleaners
CIVCO Medical Solutions
Global Medical Imaging
Parker Laboratories, Inc
Film/Recording Paper
Global Medical Imaging
CIVCO Medical Solutions
Fume Control
PCI Medical Inc
Gel/Gel Warmers
CIVCO Medical Solutions
Global Medical Imaging
Parker Laboratories, Inc
SonoDepot
Printers/Paper
CIVCO Medical Solutions
Global Medical Imaging
Philips Medical Systems
SonoDepot
Probes
Center for Medical Genetics
CIVCO Medical Solutions
Global Medical Imaging
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Visit the AIUM Resource Center

Between sessions and throughout the convention, stop by the AIUM Resource Center to check out all of the products that we have to offer. AIUM members receive up to a 50% discount on all products as a benefit of membership, including ultrasound-related publications, pamphlets, CME video programs, merchandise, and more.

The AIUM Resource Center will be located on the Fifth Floor Foyer outside the Exhibit Hall. See page 3 for Resource Center Hours.

SonoDepot
Toshiba America Medical Systems, Inc
Zonare Medical Systems, Inc

Product Listing

Real-Time Compound Imaging
GE Healthcare
Global Medical Imaging
Medisales, LLC
Medison America, Inc
Siemens Medical Solutions
USA, Inc
SonoDepot
Toshiba America Medical Systems, Inc
Ultrasound Medical Corporation

Small Parts
Aloka Ultrasound
Biosound Esaote, Inc
Gamex
GE Healthcare
Global Medical Imaging
Medisales, LLC
Medison America, Inc
Philips Medical Systems
Siemens Medical Solutions
USA, Inc
SonoDepot
Sonosite, Inc
Toshiba America Medical Systems, Inc
Ultrasound Medical Corporation

Three-Dimensional
Aloka Ultrasound
Biosound Esaote, Inc
Center for Medical Genetics
GE Healthcare
Global Medical Imaging
Hitachi Medical Systems
America, Inc
Medisales, LLC
Medison America, Inc
Philips Medical Systems
Siemens Medical Solutions
USA, Inc
SonoDepot
Sonosite, Inc
Toshiba America Medical Systems, Inc
Ultrasound Medical Corporation
VisualSonics, Inc

Transcranial
Aloka Ultrasound
Biosound Esaote, Inc
GE Healthcare
Global Medical Imaging
Medisales, LLC
Philips Medical Systems
Siemens Medical Solutions
USA, Inc
SonoDepot
Sonosite, Inc

Urology
Aloka Ultrasound
Biosound Esaote, Inc
GE Healthcare
Global Medical Imaging
Hitachi Medical Systems
America, Inc
Medisales, LLC
Medison America, Inc
Siemens Medical Solutions
USA, Inc
SonoDepot
Toshiba America Medical Systems, Inc

Vascular
Aloka Ultrasound
Biosound Esaote, Inc
GE Healthcare
Global Medical Imaging
Hitachi Medical Systems
America, Inc
Medisales, LLC
Medison America, Inc
Philips Medical Systems
Siemens Medical Solutions
USA, Inc
SonoDepot
Sonosite, Inc
Toshiba America Medical Systems, Inc
Ultrasound Medical Corporation
Visual Systems, Inc
Zonare Medical Systems, Inc

Veterinary
Aloka Ultrasound
Biosound Esaote, Inc
GE Healthcare
Global Medical Imaging
Hitachi Medical Systems
America, Inc
Medisales, LLC
Medison America, Inc
Philips Medical Systems
Siemens Medical Solutions
USA, Inc
SonoDepot
Sonosite, Inc
Toshiba America Medical Systems, Inc
Zonare Medical Systems, Inc

Ultrasound-Guided Devices

Interventional
GE Healthcare
Philips Medical Systems
Siemens Medical Solutions
USA, Inc
Toshiba America Medical Systems, Inc

Radio Frequency Ablation Devices
GE Healthcare
Toshiba America Medical Systems, Inc
The AIUM Endowment for Education and Research (EER) was created to advance education and establish research opportunities in ultrasound. Each year, the EER provides grant money for much-needed research. What makes this possible is the generous support of AIUM members.

It is with great appreciation that the AIUM thanks those individuals listed below who contributed to the EER during the period from December 2005 to December 2006. These contributors will have a ribbon on their name badge indicating that they are EER donors; please be sure to thank them for their generosity and support. If you would like to join this group of donors, contributions will be accepted at the AIUM registration desk.

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