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Schedule at a Glance

**Thursday, April 14, 2011**
7:30 AM–5:00 PM  
Preconvention Program

**Friday, April 15, 2011**
8:00 AM–9:00 AM  
Just Images Sessions
8:00 AM–9:00 AM  
Basic Science Scientific Session
8:00 AM–9:00 AM  
Community of Practice Meetings
9:15 AM–11:00 AM  
Opening/Awards Session
11:00 AM–1:00 PM  
Grand Opening Luncheon in the Exhibit Hall
1:00 PM–2:00 PM  
Film Panel Sessions
1:00 PM–2:00 PM  
Basic Science Elastography Session
2:15 PM–3:45 PM  
Categorical Courses
2:15 PM–3:45 PM  
Hands-on Categorical Course
4:00 PM–5:30 PM  
Scientific Sessions
4:00 PM–5:30 PM  
Accreditation “Getting Started” Workshop

**Saturday, April 16, 2011**
8:00 AM–10:00 AM  
Categorical Courses
8:00 AM–10:00 AM  
Hands-on Categorical Course
8:00 AM–10:00 AM  
Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography
8:00 AM–5:00 PM  
Student/Resident Day Program
10:00 AM–11:00 AM  
Refreshment Break in the Exhibit Hall
10:00 AM–11:00 AM  
Community of Practice Meetings
10:30 AM–12:30 PM  
Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics
11:00 AM–12:30 PM  
Scientific Sessions
11:00 AM–12:30 PM  
New Investigator Award Session
12:30 PM–1:30 PM  
Lunch in the Exhibit Hall
12:30 PM–1:30 PM  
Scientific Poster Discussions
1:00 PM–1:30 PM  
Community of Practice Meetings
1:00 PM–3:00 PM  
Three- and Four-Dimensional Volume Data Set Manipulation: General Abdominal
1:30 PM–3:30 PM  
Categorical Courses
1:30 PM–3:30 PM  
Hands-on Categorical Course
3:30 PM–4:30 PM  
Refreshment Break in the Exhibit Hall
3:30 PM–4:30 PM  
Community of Practice Meetings
3:30 PM–5:30 PM  
Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology
4:30 PM–5:30 PM  
Scientific Sessions
4:30 PM–5:30 PM  
Just Images Sessions
7:00 PM–11:00 PM  
Leadership Banquet (by invitation only)
Sunday, April 17, 2011

8:00 AM–10:00 AM Categorical Courses
8:00 AM–12:30 PM Musculoskeletal Hands-on Workshop
10:00 AM–11:00 AM Refreshment Break in the Exhibit Hall
10:00 AM–11:00 AM Community of Practice Meetings
11:00 AM–12:30 PM Scientific Sessions
11:00 AM–12:30 PM Just Images Sessions
12:30 PM–1:30 PM Scientific Poster Discussions
12:30 PM–1:30 PM Lunch in the Exhibit Hall
1:30 PM–3:30 PM Categorical Courses
3:45 PM–5:00 PM Scientific Sessions
3:45 PM–5:00 PM Just Images Session
5:15 PM–5:30 PM AIUM Business Meeting

Monday, April 18, 2011

7:00 AM–11:00 AM Board of Governors Meeting

Lunch and Refreshment Breaks in the Exhibit Hall

Friday, April 15

Grand Opening Luncheon 11:00 AM–1:00 PM

Saturday, April 16

Refreshment Break 10:00 AM–11:00 AM
Lunch 12:30 PM–1:30 PM
Refreshment Break 3:30 PM–4:30 PM

Sunday, April 17

Refreshment Break 10:00 AM–11:00 AM
Lunch 12:30 PM–1:30 PM
General Information

**Speaker Ready Room**
*Gilbert • Fourth Floor*
- Wednesday, April 13: 1:00 PM–5:00 PM
- Thursday, April 14: 6:00 AM–5:30 PM
- Friday, April 15: 7:00 AM–5:30 PM
- Saturday, April 16: 7:00 AM–5:30 PM
- Sunday, April 17: 7:00 AM–5:00 PM

**Registration Hours**
*Fifth Floor Lobby*
- Thursday, April 14: 6:00 AM–4:15 PM
- Friday, April 15: 6:30 AM–4:15 PM
- Saturday, April 16: 7:00 AM–4:30 PM
- Sunday, April 17: 7:00 AM–5:00 PM

**Exhibit and Press Registration Hours**
*Fifth Floor Lobby*
- Thursday, April 14: 7:30 AM–5:00 PM
- Friday, April 15: 7:00 AM–4:45 PM
- Saturday, April 16: 9:00 AM–4:45 PM
- Sunday, April 17: 9:00 AM–2:00 PM

**Exhibit Hall Hours**
*Westside Ballroom • Fifth Floor*
- Friday, April 15: 11:00 AM–4:45 PM
- Grand Opening Luncheon: 11:00 AM–1:00 PM
- Saturday, April 16: 9:30 AM–4:45 PM
- Refreshment Break: 10:00 AM–11:00 AM
- Lunch: 12:30 PM–1:30 PM
- Refreshment Break: 3:30 PM–4:30 PM
- Sunday, April 17: 9:00 AM–2:00 PM
- Refreshment Break: 10:00 AM–11:00 AM
- Lunch: 12:30 PM–1:30 PM

**AIUM Office Hours**
*Columbia • Seventh Floor*
- Thursday, April 14: 12:00 PM–4:15 PM
- Friday, April 15: 7:30 AM–4:30 PM
- Saturday, April 16: 7:30 AM–4:30 PM
- Sunday, April 17: 7:30 AM–5:00 PM

**AIUM Resource Center Hours**
*Fifth Floor Lobby*
- Thursday, April 14: 8:00 AM–4:15 PM
- Friday, April 15: 8:00 AM–4:15 PM
- Saturday, April 16: 8:00 AM–4:30 PM
- Sunday, April 17: 8:00 AM–2:00 PM
Convention Registration
Convention registration fees cover attendance to all sessions held Friday, April 15, through Sunday, April 17, 2011 (except the Three- and Four-Dimensional Volume Data Set Manipulation sessions).

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

Three- and Four-Dimensional Volume Data Set Manipulation Sessions
Registration for the Three- and Four-Dimensional Volume Data Set Manipulation sessions is on a first-come, first-served basis according to the date of receipt of the registration form. There is an additional fee for these sessions. Tickets for entrance to these sessions are required and were issued with your registration materials.

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 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.

Spouse and Guest Registration
You may register a spouse/guest for $100, which provides access to the Exhibit Hall.

Videotaping and Photography Policy
The AIUM does not allow any unauthorized videotaping or photography during the AIUM Annual Convention or Preconvention Program except by management and its designed agents.

The AIUM reserves the right to photograph or videotape any exhibit or attendee for use in promotional materials or any other AIUM publication. The AIUM may videotape several educational courses for inclusion in the AIUM's educational video program library.

What to Wear
Attire at this year's AIUM Annual Convention and Preconvention Program is casual. Feel free to dress comfortably, in slacks, polo shirts, and, most importantly, comfortable shoes. Please note that meeting rooms are air-conditioned, so prepare for all temperatures.

Fragrance
For the comfort of all participants, we ask attendees to refrain from wearing perfume, cologne, and other fragrances.

Smoking Policy
The New York Marriott Marquis Hotel is a 100% smoke-free environment.
Cell Phone
As a courtesy to your fellow convention attendees and faculty, we ask that you please turn off your cell phone or place it on vibrate during the educational sessions.

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

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

Although many organizations and associations use an outside travel agency to negotiate contracts, the AIUM negotiates its own contracts, and any rebates are paid directly to the AIUM. Income from rebates allows the AIUM to offset expenses and provide enhanced service to attendees.

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

The 2011 AIUM Annual Convention is supported in part by an educational grant from GE Healthcare.

Visit the AIUM RESOURCE CENTER
FIFTH FLOOR LOBBY

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

Stop by for special on-site discounts on select video programs.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Thursday, April 14</td>
<td>8:00 AM–4:15 PM</td>
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<tr>
<td>Friday, April 15</td>
<td>8:00 AM–4:15 PM</td>
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<td>Saturday, April 16</td>
<td>8:00 AM–4:30 PM</td>
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<tr>
<td>Sunday, April 17</td>
<td>8:00 AM–2:00 PM</td>
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Stop by and enter to win a FREE registration to the 2012 AIUM Annual Convention in Phoenix, Arizona.
## Symbol Key

- **Hands-on Courses**
- **Videotaped Courses**
- **Endowment for Education and Research Grant Recipient**

## Community of Practice Tracks

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Track Name</th>
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<tbody>
<tr>
<td>BSI</td>
<td>Basic Science and Instrumentation</td>
</tr>
<tr>
<td>CARDIO</td>
<td>Cardiovascular Ultrasound</td>
</tr>
<tr>
<td>CEUS</td>
<td>Contrast-Enhanced Ultrasound</td>
</tr>
<tr>
<td>ERCC</td>
<td>Emergency and Critical Care Ultrasound</td>
</tr>
<tr>
<td>FE</td>
<td>Fetal Echocardiography</td>
</tr>
<tr>
<td>G&amp;A</td>
<td>General and Abdominal Ultrasound</td>
</tr>
<tr>
<td>GYN</td>
<td>Gynecologic Ultrasound</td>
</tr>
<tr>
<td>HFI</td>
<td>High-Frequency Clinical and Preclinical Imaging</td>
</tr>
<tr>
<td>IVO</td>
<td>Interventional-Intraoperative Ultrasound</td>
</tr>
<tr>
<td>MSK</td>
<td>Musculoskeletal Ultrasound</td>
</tr>
<tr>
<td>NEURO</td>
<td>Neurosonology</td>
</tr>
<tr>
<td>OB</td>
<td>Obstetric Ultrasound</td>
</tr>
<tr>
<td>PEDS</td>
<td>Pediatric Ultrasound</td>
</tr>
<tr>
<td>SONO</td>
<td>Sonography</td>
</tr>
<tr>
<td>THERA</td>
<td>Therapeutic Ultrasound</td>
</tr>
</tbody>
</table>
Community of Practice Tracks

**Basic Science and Instrumentation**
- Advanced Breast Imaging ........................................ SUN
- Elastography: Principles, Methods, Applications, and Future Directions ........................................ FRI
- Elastography (Strain Imaging) ................................ SAT
- Is Ultrasound Safe? A Mock Trial ................................. FRI
- Phase Aberration and Harmonic Imaging ...................... SAT

**Cardiovascular Ultrasound**
- Abdominal Doppler Ultrasound ................................ SUN
- Abdominal Doppler Ultrasound: Interesting Cases ........ FRI
- Basics of Transcranial Doppler Ultrasound (Adult Theme) .................................................. SAT
- Current Controversies in Vascular Sonography .............. THURS
- Hands-on Carotid and Transcranial Doppler Ultrasound: Technique and Basic Interpretation .......... SAT
- Hands-on Renal Artery Doppler Ultrasound .................. SAT
- Peripheral Arterial Disease/Chronic Venous Disease ...... SAT
- Renal Doppler Ultrasound ........................................ SUN
- Sonography of Pediatric Liver and Kidney Transplants Combined With Vascular Sonography in Children ........ SAT
- Ultrasound-Directed Pediatric Resuscitation ................. THURS
- Update on Imaging of Organ Transplants .................... FRI

**Contrast-Enhanced Ultrasound**
- Contrast-Enhanced Ultrasound: Clinical Applications .... FRI
- Contrast-Enhanced Ultrasound: Clinical Uses ............... SUN
- Contrast-Enhanced Ultrasound: The Basics .................. SAT
Emergency and Critical Care Ultrasound

- Acute Presentation of Extremity Pathology: Bumps, Bruises, Fractures, and Rupture—State-of-the-Art Ultrasound Applications in Emergent Musculoskeletal Conditions. .......................... SUN
- Hands-on Ultrasound-Guided Vascular Access ............... SAT
- Pelvic Pain .................................................. SAT
- Point-of-Care Evaluation of Pediatric Cardiac, Abdominal, and Pulmonary Emergencies and Evaluation of the Unstable Patient in the Emergency and Critical Care Settings ......................... SAT
- Point-of-Care Ultrasound of the Head and Neck ............ SUN
- Ultrasound-Directed Pediatric Resuscitation .................. THURS

Fetal Echocardiography

- Complex Anomalies ............................................ FRI
- Fetal Diagnosis With Neonatal Correlation ................. SUN
- First-Trimester Cardiac Screening .......................... SUN
- Live Demonstration: How to Evaluate the Fetal Heart and First- and Second-Trimester 3- and 4-Dimensional Anatomy .................. SAT
- Three- and Four-Dimensional Fetal Cardiac Imaging .......................... THURS
- Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography .................. SAT

General and Abdominal Ultrasound

- Abdominal Doppler Ultrasound ............................... SUN
- Abdominal Doppler Ultrasound: Interesting Cases ............ FRI
- Breast Sonography ............................................. SUN
- Elastography: Principles, Methods, Applications, and Future Directions .................... FRI
- Elastography (Strain Imaging) ................................ SAT
- Hands-on: How to Do the Biopsy .......................... FRI
- Hands-on Renal Artery Doppler Ultrasound ........... SAT
- Hands-on Ultrasound-Guided Vascular Access ........ SAT
- Pediatric Oncologic Sonography .......................... FRI
- Renal Doppler Ultrasound .................................. SUN
- Sonography After 5 PM ....................................... FRI
- Sonography of Pediatric Liver and Kidney Transplants Combined With Vascular Sonography in Children .................. SAT
- Techniques of Ablation and Uterine Artery Embolization .......... THURS
- Three- and Four-Dimensional Volume Data Set Manipulation: General Abdominal ................ SAT
- Thyroid Ultrasound ............................................ SAT
- Update on Imaging of Organ Transplants .................... FRI
Gynecologic Ultrasound
- Adnexal Masses .................................................. SAT
- Instructive Gynecologic Ultrasound Cases .............. SUN
- Is What We Have Enough? New Directions and Reassurances ........................................... FRI
- Nongynecologic Ultrasound Findings on Pelvic Scans ................................................ SUN
- Pediatric Oncologic Sonography .......................... FRI
- Pelvic Pain ............................................................. SAT
- Pelvic Ultrasound and Laparoscopy: A Perfect Diagnostic Combination ................................ FRI
- Pregnancy of Unknown Origin ............................. SUN
- Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology .......................... SAT
- The Road From Basic to Advanced 3-Dimensional Ultrasound ........................................... THURS

High-Frequency Clinical and Preclinical Imaging
- Contrast-Assisted High-Frequency Ultrasound ....... SUN
- Multimodality High-Frequency Tissue Characterization .................................................. SAT
- Molecular Imaging .................................................. SUN
- Small-Animal Preclinical High-Frequency Imaging .................................................. FRI

Interventional-Intraoperative Ultrasound
- Hands-on: How to Do the Biopsy ............................ FRI
- Hands-on Ultrasound-Guided Vascular Access ....... SAT
- Interesting Cases .................................................... SAT
- New Techniques in Biopsy Combined With New Materials .............................................. SAT
- Techniques of Ablation and Uterine Artery Embolization .................................................. THURS
- Thyroid/Parathyroid and Cervical Biopsies ............. SUN

Musculoskeletal Ultrasound
- Comprehensive Pediatric Neurosonology .............. FRI
- Hand and Wrist ....................................................... FRI
- Hands-on Workshop—Musculoskeletal Ultrasound: Shoulder, Hand, and Wrist ................. SUN
- Musculoskeletal Ultrasound: Core Curriculum ....... THURS
- Pediatric Musculoskeletal Sonography .................... SUN
- Shoulder ................................................................. SUN
Neurosonology

- Basics of Transcranial Doppler Ultrasound (Adult Theme) ........................................... Sat
- Comprehensive Pediatric Neurosonology ................................................................. Fri
- Hands-on Carotid and Transcranial Doppler Ultrasound: Technique and Basic Interpretation .......... Sat

Obstetric Ultrasound

- Coding, the Hard-to-Scan Patient, and Legal Issues in Obstetric Ultrasound ..................................... Sun
- Differential Diagnosis of Congenital Anomalies ....................................................... Thurs
- Doppler Ultrasound in Obstetrics: Case Based ....................................................... Thurs
- First- and Second-Trimester 3- and 4-Dimensional Anatomy ........................................ Sat
- From Common to Complex: Ultrasound Management of Multiple Gestation Pregnancies .......... Fri
- Is Ultrasound Safe? A Mock Trial .............................................................. Fri
- Is What We Have Enough? New Directions and Reassurances ........................................ Fri
- Live Demonstration: How to Evaluate the Fetal Heart and First- and Second-Trimester 3- and 4-Dimensional Anatomy ....................................................... Sat
- Nonfetal Obstetric Ultrasound: Cervix, Placenta, and the Transperineal Approach ................. Sun
- Three- and Four-Dimensional Fetal Cardiac Imaging ............................................. Thurs
- Three- and Four-Dimensional Normal and Abnormal Obstetric Ultrasound ......................... Sat
- Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics ............................ Sat

Pediatric Ultrasound

- Challenging Pediatric Cases .......................................................... Sun
- Comprehensive Pediatric Neurosonology ......................................................... Fri
- Pediatric Musculoskeletal Sonography .......................................................... Sun
- Pediatric Oncologic Sonography ................................................................. Fri
- Point-of-Care Evaluation of Pediatric Cardiac, Abdominal, and Pulmonary Emergencies and Evaluation of the Unstable Patient in the Emergency and Critical Care Settings ................................................ Sat
- Sonography of Pediatric Liver and Kidney Transplants Combined With Vascular Sonography in Children .............................................................. Sat
- Ultrasound-Directed Pediatric Resuscitation ................................................... Thurs
If You Don’t Tell Us, How Will We Know?
Complete Your Evaluation Form!

This is your chance to tell us what you think about the courses/sessions you attended and the programs you want in the future. Your opinion is important; our planning committee reads each evaluation! We need real advice from real people in the field, and that is why we count on you to complete your evaluation. Your feedback will help us plan future activities that meet your educational needs.

An e-mail will be sent to you to complete the convention evaluation.
Educational Opportunities

- **Preconvention Program**—Attend courses providing in-depth coverage of ultrasound issues. Separate registration fee.

- **Categorical Courses**—Choose from concurrent courses developed by Community of Practice chairs and the Annual Convention Committee and presented by distinguished ultrasound professionals.

- **Hands-on Courses**—Participate in courses covering emergency, cerebrovascular, transcranial Doppler, renal Doppler, and musculoskeletal ultrasound.

- **NEW! Three- and Four-Dimensional Volume Data Set Manipulation Sessions**—Participate in small-group sessions led by renowned ultrasound professionals. Space is limited. Register early as these sessions will sell out quickly. Three- and Four-Dimensional Volume Data Set Manipulation sessions are not included in convention registration fee. The cost for these sessions is $25.00 each.

- **Scientific Sessions**—Learn about the latest research in ultrasound.

- **Just Images Sessions**—View and discuss unique cases with the physicians who made the diagnosis.

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

- **NEW FORMAT! Scientific Poster Sessions**—Novel and innovative research will be presented in 2 formats this year: 
  - Scientific E-Posters: Obstetric and gynecologic ultrasound research is debuting this year in a new format: e-posters. These electronic posters enable presenters to provide more detailed information for viewers and are presented on a computer monitor.
  - Scientific Posters: Original research, other than that in obstetric and gynecologic ultrasound, will be presented using the traditional poster design. Authors will be available to answer your questions during designated times.

- **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.

- **Community of Practice Meetings**—Meet with other ultrasound professionals who share your interests, plan future AIUM educational programs, and discuss the issues in your specialty.
Committee Meeting Schedule

**Wednesday, April 13**

3:00 PM–6:00 PM  Output Standards Subcommittee  
  Odets • Fourth Floor

7:00 PM–9:00 PM  International Electrotechnical Commission Subcommittee  
  Odets • Fourth Floor

**Thursday, April 14**

8:00 AM–12:00 PM  Technical Standards Committee  
  Ziegfeld • Fourth Floor

11:30 AM–1:00 PM  Annual Convention Committee  
  Cantor/Jolson • Ninth Floor

1:00 PM–7:00 PM  Bioeffects Committee  
  Ziegfeld • Fourth Floor

1:30 PM–3:30 PM  Finance and Executive Committee  
  Barrymore • Ninth Floor

**Friday, April 15**

4:00 PM–5:30 PM  Clinical Standards Committee  
  Cantor • Ninth Floor

4:00 PM–5:30 PM  Membership Committee  
  Jolson • Ninth Floor

**Saturday, April 16**

9:00 AM–10:00 AM  Continuing Medical Education Committee  
  Cantor • Ninth Floor

12:30 PM–1:30 PM  Presidential Advisory Council  
  JW Marriott Suite • 43rd Floor

4:30 PM–5:30 PM  Endowment for Education and Research Committee  
  Jolson • Ninth Floor

**Sunday, April 17**

7:15 AM–8:00 AM  Journal of Ultrasound in Medicine Editorial Board  
  Cantor/Jolson • Ninth Floor

8:15 AM–9:15 AM  Exhibit Advisory Council  
  Ziegfeld • Fourth Floor

8:30 AM–10:30 AM  Ultrasound Practice Accreditation Council  
  Barrymore • Ninth Floor

12:30 PM–1:30 PM  Community of Practice Council  
  Cantor/Jolson • Ninth Floor

2:30 PM–5:00 PM  Executive Committee  
  Barrymore • Ninth Floor

5:15 PM  Business Meeting  
  Cantor • Ninth Floor

**Monday, April 18**

7:00 AM–11:00 AM  Board of Governors Meeting  
  Marquis Ballroom • Ninth Floor
# Community of Practice Meeting Schedule

## Friday, April 15

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00 AM–9:00 AM</td>
<td>Gynecologic Ultrasound</td>
<td>Majestic/Music Box • Sixth Floor</td>
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<td>Musculoskeletal Ultrasound</td>
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<td>Winter Garden • Sixth Floor</td>
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## Saturday, April 16

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>10:00 AM–11:00 AM</td>
<td>Cardiovascular Ultrasound</td>
<td>Marquis Ballroom A/B • Ninth Floor</td>
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<td>Contrast-Enhanced Ultrasound</td>
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<td>Majestic/Music Box • Sixth Floor</td>
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<td>Emergency and Critical Care Ultrasound</td>
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<td>Shubert Complex • Sixth Floor</td>
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<td></td>
<td></td>
<td>Fetal Echocardiography</td>
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<td>Broadway Ballroom North • Sixth Floor</td>
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<td>1:00 PM–1:30 PM</td>
<td>High-Frequency Clinical and Preclinical Imaging</td>
<td>Majestic/Music Box • Sixth Floor</td>
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<td>3:30 PM–4:30 PM</td>
<td>General and Abdominal Ultrasound</td>
<td>Shubert Complex • Sixth Floor</td>
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<td>Neurosonology</td>
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<td>Manhattan Ballroom • Eighth Floor</td>
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<td>Obstetric Ultrasound</td>
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<td>Broadway Ballroom South • Sixth Floor</td>
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<td></td>
<td>Therapeutic Ultrasound</td>
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<td>Astor Ballroom • Seventh Floor</td>
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## Sunday, April 17

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:00 AM–11:00 AM</td>
<td>Basic Science and Instrumentation</td>
<td>Marquis Ballroom C • Ninth Floor</td>
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<td></td>
<td>Interventional-Intraoperative Ultrasound</td>
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<td></td>
<td>Soho/Herald • Seventh Floor</td>
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<td></td>
<td></td>
<td>Pediatric Ultrasound</td>
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<td></td>
<td>Shubert Complex • Sixth Floor</td>
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Fourth Floor Rooms

Brecht—Scientific E-Posters
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Odets—Scientific Posters
O’Neill—Scientific Posters
Wilder—Scientific Posters
Ziegfeld—Committee Room
Fifth Floor

Fifth Floor Rooms

5th Floor Lobby—AIUM Resource Center
45th Street Side Foyer—AIUM Exhibit Registration
46th Street Side Foyer—AIUM Registration
Westside Ballroom—Exhibit Hall
Sixth Floor

Sixth Floor Rooms

Broadway Ballroom North—Courses/Sessions*
Broadway Ballroom South—Courses/Sessions*
Majestic—Courses/Sessions*
Music Box—Courses/Sessions*

Palace—3D/4D Sessions**
Royale—3D/4D Sessions**
Shubert Complex—Courses/Sessions*
Winter Garden—3D/4D Sessions**

*Categorical Courses/Scientific Sessions
**Three- and Four-Dimensional Volume Data Set Manipulation Sessions
Seventh Floor Rooms

Astor Ballroom—Courses/Sessions*
Columbia—AIUM Office
Empire Complex—Courses/Sessions*
Soho/Herald—Courses/Sessions*

*Categorical Courses/Scientific Sessions
Eighth Floor Rooms

Manhattan Ballroom—Courses/Sessions*

*Categorical Courses/Scientific Sessions
Ninth Floor Rooms

**Barrymore**—Committee Room

**Cantor**—Committee Room

**Jolson**—Committee Room

**Marquis Ballroom**—Courses/Sessions*

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*Categorical Courses/Scientific Sessions
Meeting Room Names and Locations in Alphabetical Order

- Astor Ballroom • Seventh Floor
- Barrymore • Ninth Floor
- Brecht • Fourth Floor
- Broadway Ballroom North • Sixth Floor
- Broadway Ballroom South • Sixth Floor
- Cantor • Ninth Floor
- Columbia • Seventh Floor
- Duffy • Seventh Floor
- Empire Complex • Seventh Floor
- Gilbert • Fourth Floor
- Gramercy/Olmstead • Seventh Floor
- Jolson • Ninth Floor
- Majestic/Music Box • Sixth Floor
- Manhattan Ballroom • Eighth Floor
- Marquis Ballroom A/B • Ninth Floor
- Marquis Ballroom C • Ninth Floor
- O’Neill • Fourth Floor
- Odets • Fourth Floor
- Palace • Sixth Floor
- Royale • Sixth Floor
- Shubert • Sixth Floor
- Soho/Herald • Seventh Floor
- Westside Ballroom • Fifth Floor
- Wilder • Fourth Floor
- Winter Garden • Sixth Floor
- Ziegfeld • Fourth Floor
Thursday, April 14

Preconvention Program

Separate Registration

Schedule at a Glance

6:00 AM–4:15 PM   Registration Open
7:00 AM–7:30 AM   Preconvention Program Breakfast
7:30 AM–11:30 AM  Current Clinical Utilization of Therapeutic Ultrasound in Gynecology
7:30 AM–11:30 AM  Doppler Ultrasound in Obstetrics: Case Based
7:30 AM–11:30 AM  Techniques of Ablation and Uterine Artery Embolization
7:30 AM–11:30 AM  Three- and Four-Dimensional Fetal Cardiac Imaging
7:30 AM–11:30 AM  Ultrasound-Directed Pediatric Resuscitation
7:30 AM–5:00 PM   Musculoskeletal Ultrasound: Core Curriculum
8:00 AM–12:00 PM  Technical Standards Committee Meeting
11:30 AM–1:00 PM  Annual Convention Committee Meeting
1:00 PM–5:00 PM   Current Controversies in Vascular Sonography
1:00 PM–5:00 PM   Differential Diagnosis of Congenital Anomalies
1:00 PM–5:00 PM   The Future of Clinical Utilization of Therapeutic Ultrasound in Oncology
1:00 PM–5:00 PM   The Road From Basic to Advanced 3-Dimensional Ultrasound
1:00 PM–7:00 PM   Bioeffects Committee Meeting
1:30 PM–3:30 PM   Finance and Executive Committee Meeting
It is with the greatest appreciation that the AIUM offers our thanks to the following companies for their financial support over the past year. These companies have demonstrated their commitment to the AIUM, the advancement of ultrasound development and education, and the ultrasound community by advertising in the *Journal of Ultrasound in Medicine*, participating in the Annual Convention and CME courses, providing sponsorship and educational grants, and donating to the AIUM’s Endowment for Education and Research.

The AIUM is a multidisciplinary association dedicated to advancing the safe and effective use of ultrasound in medicine through professional and public education, research, development of guidelines, and accreditation. With the help and support of these companies, we will continue to see improvements in years to come.

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Preconvention Program Breakfast
Breakfast will be provided outside each room.

Morning Half-Day Courses
Each half-day course is eligible for 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Current Clinical Utilization of Therapeutic Ultrasound in Gynecology
Moderator: J. Brian Fowlkes, PhD
Gramercy/Olmstead • Seventh Floor
Faculty: Shannon K. Laughlin, MD, Nathan McDannold, PhD, and Clare Tempany, MD
This course is designed to provide attendees with an understanding of how therapeutic ultrasound has evolved toward use in the treatment of gynecologic conditions. This application area is at the forefront of clinical applications, and this course will provide information on the instrumentation developed for the treatment of uterine fibroids, effective application of the therapy, and outcomes associated with treatment.

Doppler Ultrasound in Obstetrics: Case Based
Moderator: Joshua Copel, MD
Astor Ballroom • Seventh Floor
Faculty: Mert Bahtiyar, MD, Ahmet Baschat, MD, Greggory DeVore, MD, Giancarlo Mari, MD, and Lynn Simpson, MD
The objective of this course is to provide the basics of the use of Doppler ultrasound in obstetrics. This course will discuss the use and clinical applications of these waveforms in a case-based format.

Techniques of Ablation and Uterine Artery Embolization
Moderator: Hisham Tchelepi, MD
Soho/Herald • Seventh Floor
Faculty: Nami Azar, MD, Shrinivas Desai, MD, George Holland, MD, Nael Saad, MD, and Wael Saad, MD
The objective of this course is to introduce attendees to the newer techniques of ablation of tumors and describe the indications and need for uterine artery embolization.
Three- and Four-Dimensional Fetal Cardiac Imaging
Moderators: Julia Drose, BA, RT, RDMS, RVT, RDCS, and Mark Sklansky, MD
Empire Complex • Seventh Floor

Faculty: Reuven Achiron, MD, Liat Gindes, MD, Wesley Lee, MD, David Sahn, MD, and Lami Yeo, MD

The objective of this course is to review the basic approach to fetal cardiac imaging using techniques based on 3-dimensional (3D) and 4D data acquisition and postacquisition volume review. The approach to volume data acquisition plus postacquisition data manipulation to obtain diagnostically useful images will be demonstrated and will include examples of normal cases and congenital heart disease. The overall indications and utility of 3D/4D data for screening and evaluation of the fetal heart will be reviewed. Areas examined include a historical/technical background, the basic approach, the first trimester, cardiac screening, and abnormal hearts.

Ultrasound-Directed Pediatric Resuscitation
Moderators: David Kessler, MD, and James Tsung, MD
Marquis Ballroom A/B • Ninth Floor

Faculty: Alyssa Abo, MD, David Kessler, MD, Jason Levy, MD, Vaishali Shah MD, and James Tsung, MD

The objective of this course is to provide ultrasound guidance or direction of pediatric resuscitation in emergency departments and critical care units. The course will focus on a head-to-toe–style evaluation, resuscitation algorithms, and applicable cardiac, lung, abdominal, and vascular ultrasound examinations performed at the bedside simultaneously with the resuscitation process. A state-of-the-art summary of protocols and literature will end the course.
1:00 PM–5:00 PM

Afternoon Half-Day Courses

Each half-day course is eligible for 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Current Controversies in Vascular Sonography**

**Moderator:** M. Robert De Jong, RDCS, RDMS, RVT  
**Marquis Ballroom A/B • Ninth Floor**

*Faculty: John Blebea, MD, M. Robert De Jong, RDCS, RDMS, RVT, Edward Grant, MD, Joanne Lohr, MD, RVT, Laurence Needleman, MD, Myron Pozniak, MD, and Renee Patterson, MD*

The objective of this course is to provide new techniques in vascular imaging and treatment. The controversies will include calf veins, unilateral deep venous thrombosis examinations, and diagnostic charts. Audience discussion will be included.

**Differential Diagnosis of Congenital Anomalies**

**Moderator:** Bryann Bromley, MD  
**Astor Ballroom • Seventh Floor**

*Faculty: Carol Benson, MD, Jane Corteville, MD, Luis Gonçalves, MD, Sharon Horton, RDMS, Anna Monteagudo, MD, Michelle Russell, MD, Waldo Sepulveda, MD, Lynn Simpson, MD, and Lami Yeo, MD*

The objective of this course is to provide presentations of cases involving congenital anomalies that are unusual, but not esoteric, that have significant teaching points.

**The Future of Clinical Utilization of Therapeutic Ultrasound in Oncology**

**Moderator:** J. Brian Fowlkes, PhD  
**Gramercy/Olmstead • Seventh Floor**

*Faculty: Kullervo Hynynen, PhD, Joo Ha Hwang, MD, PhD, and Clare Tempany, MD*

This course is designed to provide an overview of the developing field of oncologic therapy using ultrasound. Oncologic applications for therapeutic ultrasound are growing, and the utility of this therapy is being examined in the treatment of numerous cancers. The design of ultrasound systems for cancer applications has evolved specific attributes, and understanding how and when to use therapeutic ultrasound is essential to the future success of the field. Both the instrumentation and the clinical approaches to oncology will be presented to show the promise of this exciting use of therapeutic ultrasound.
The Road From Basic to Advanced 3-Dimensional Ultrasound

**Moderator:** Ilan Timor-Tritsch, MD

**Empire Complex • Seventh Floor**

**Faculty:** George Bega, MD, Arthur Fleischer, MD, Anna Lev-Toaff, MD, and Ilan Timor-Tritsch, MD

The objective of this course is to provide an overview of 3-dimensional ultrasound in gynecology with subcategories of the uterus, ovaries, and pelvic floor.

**7:30 AM–5:00 PM**

**Full-Day Course**

Earn up to 8 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Musculoskeletal Ultrasound: Core Curriculum**

**Moderator:** Ralf Thiele, MD

**Marquis Ballroom C • Ninth Floor**

**Faculty:** J. Antonio Bouffard, MD, David Fessell, MD, Levon Nazarian, MD, Jay Smith, MD, and Marnix Van Holsbeeck, MD

The objective of this course is to provide an overview and live demonstration of ultrasound of the joints of upper and lower extremities according to the AIUM practice guidelines (excluding the hand and wrist). This course is targeted to physicians, practitioners, and sonographers with beginner to intermediate levels of experience in musculoskeletal ultrasound.

**8:00 AM–3:30 PM**

**Committee Meetings**

**8:00 AM–12:00 PM**  
**Technical Standards Committee**  
Ziegfeld • Fourth Floor

**11:30 AM–1:00 PM**  
**Annual Convention Committee**  
Cantor/Jolson • Ninth Floor

**1:00 PM–7:00 PM**  
**Bioeffects Committee**  
Ziegfeld • Fourth Floor

**1:30 PM–3:30 PM**  
**Finance and Executive Committee**  
Barrymore • Ninth Floor
Friday, April 15
Convention

Schedule at a Glance

6:30 AM–4:15 PM  Registration Open
8:00 AM–9:00 AM  Just Images Sessions
8:00 AM–9:00 AM  Basic Science Scientific Session
8:00 AM–9:00 AM  Community of Practice Meetings
9:15 AM–11:00 AM Opening/Awards Session
11:00 AM–1:00 PM Grand Opening Luncheon in the Exhibit Hall
1:00 PM–2:00 PM  Film Panel Sessions
1:00 PM–2:00 PM  Basic Science Elastography Session
2:15 PM–3:45 PM  Categorical Courses
4:00 PM–5:30 PM  Scientific Sessions
4:00 PM–5:30 PM  Accreditation “Getting Started” Workshop
4:00 PM–5:30 PM  Clinical Standards Committee Meeting
4:00 PM–5:30 PM  Membership Committee Meeting
Just Images Sessions

**Abdominal Doppler Ultrasound: Interesting Cases**
*Moderator: Vikram Dogra, MD*
*Manhattan Ballroom • Eighth Floor*

Faculty: George Berdejo, BA, RVT, Vikram Dogra, MD, and Marjorie Stein, MD

The objective of this course is to view and discuss interesting cases of abdominal Doppler ultrasound.

**Complex Anomalies**
*Moderators: Leeber Cohen, MD, and Julia Drose, BA, RT, RDMS, RVT, RDCS*
*Astor Ballroom • Seventh Floor*

Faculty: Lisa Allen, BS, RDMS, RDCS, RVT, and Tracy Anton, BS, RDMS, RDCS

The objective of this session is to view and discuss cases of complex fetal cardiac anomalies that are initially not known and how to make the diagnosis.

**Comprehensive Pediatric Neurosonology**
*Moderator: Dorothy Bulas, MD*
*Shubert Complex • Sixth Floor*

Faculty: Dorothy Bulas, MD, and Maria Ladino-Torres, MD

This session will present and discuss cases of the newborn spine as well as the newborn and fetal brain.

**Contrast-Enhanced Ultrasound: Clinical Applications**
*Moderator: Michelle Robbin, MD*
*Soho/Herald • Seventh Floor*

Faculty: Richard Barr, MD, PhD, David Cosgrove, MA, MSc, Barry Goldberg, MD, and Stephanie Wilson, MD

The objective of this session is to make the general ultrasound community more aware of the advantages of using ultrasound contrast agents.

**Sonography After 5 PM**
*Moderator: Shweta Bhatt, MD*
*Marquis Ballroom A/B • Ninth Floor*

Faculty: Nira Beck-Razi, MD, Shweta Bhatt, MD, and Corinne Deundulian, MD

This course will present difficult emergent abdominal and scrotal cases. These include renal colic, right upper quadrant pain, jaundice, scrotal pain, and trauma.
**8:00 AM–9:00 AM**

**Scientific Session**

Four presentations on the latest ultrasound research are offered during this period. *indicates presenter.

**BSI Basic Science: Contrast Agents and Image Analysis**

**Modestors: Charles Church, PhD, and Flemming Forsberg, PhD**

*Marquis Ballroom C • Ninth Floor*

**8:00 AM–8:12 AM**

**987568**

Assessment of Tumor Angiogenesis in Rats Using a Vascular Endothelial Growth Factor Receptor 2–Targeted Ultrasound Contrast Agent

Tuthill, Theresa*; Swanson, Terri; Von Wronski, Mathew; Tranquart, Francois; Nunn, Adrian

**8:12 AM–8:24 AM**

**992443**

Microbubble and Ultrasound Induction Gene Expression Associated With Novel Radiation-Enhancing Therapy

Al Mahrouki, Azza*; Karshafian, Raffi; Giles, Anoja; Wong, Emily; Iradj, Sara; Czarnota, Gregory

**8:24 AM–8:36 AM**

**990448**

Ultrasound-Based Acoustoelastic Measurement of In Vivo Stiffness of the Common Lateral Elbow Extensor Tendon in Chronic Tendinopathy and Healthy Controls

Ryan, Michael*; Lee, Kenneth; Kobayashi, Hirohito; Heidersheit, Bryan; Vanderby, Raymond

**8:36 AM–8:48 AM**

**918664**

Ultrasonic Assessment of Healing Tendons

Ghorayeb, Sleiman*; Lozada, Lauren; Razzano, Pasquale; Grande, Daniel

**8:48 AM–9:00 AM**

Questions and Answers

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**8:00 AM–9:00 AM**

**Community of Practice Meetings**

**GYN Gynecologic Ultrasound**

Majestic/Music Box • Sixth Floor

**MSK Musculoskeletal Ultrasound**

Winter Garden • Sixth Floor

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50  Convention • Friday, April 15
William J. Fry Memorial Lecture Award

“Chicken Is Good… Even When Not Fry’d”*
Jacques Abramowicz, MD

The William J. Fry Memorial Lecture Award was established by Joseph H. Holmes, MD, in 1969 and presented for the first time at the AIUM Annual Convention in Winnipeg, Canada, that year. William J. Fry, MS, was a physicist with a strong interest in ultrasound in biology and medicine whose innovative research efforts advanced the field of diagnostic ultrasound. One of Professor Fry’s most notable contributions was the successful design of an ultrasonic system used to pinpoint lesions in the brain without damaging adjacent tissues. This ultrasonic system was later used to treat various brain pathologies and, in particular, Parkinson disease. His impassioned interest in ultrasound led him to become president of the AIUM from 1966 until his death in 1968. The following year, the William J. Fry Memorial Lecture Award, recognizing a current or retired AIUM member who has significantly contributed in his or her particular field to the scientific progress of medical diagnostic ultrasound, was established in his honor.


Joseph H. Holmes Clinical and Basic Science Pioneer Awards

Clinical: Charles Kleinman, MD
Basic Science: J. Brian Fowlkes, PhD

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 orthopedics. 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

*Julia Drose, BA, RT, RDMS, RVT, RDCS*

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

*Masatoshi Kudo, MD, PhD*
*Gianluigi Pilu, 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

*Robert L. Bree, MD*
*Richard Jaffe, MD*
*Donna M. Kepple, RT, RDMS*

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 a designated place in the Executive Office of the AIUM, and another is presented to the family of the honoree during the annual meeting.

Endowment for Education and Research (EER) Grant Awards

Recipients to be announced.
11:00 AM–1:00 PM
Grand Opening Luncheon in the Exhibit Hall
Westside Ballroom • Fifth Floor

After the Opening/Awards Session, the Grand Opening Luncheon will be held in the Exhibit Hall. Take the time to interact with colleagues as well as representatives from leading companies in the ultrasound industry. Lunch will be provided.

1:00 PM–2:00 PM
Film Panel Sessions

**General Imaging Film Panel**
*Moderator: Sharlene Teefey, MD*
Broadway Ballroom North • Sixth Floor
*Panelists: Wui Chong, MD, Vikram Dogra, MD, and Myron Pozniak, MD*

**Obstetric Imaging Film Panel**
*Moderator: Diana Gray, MD*
Broadway Ballroom South • Sixth Floor
*Panelists: Byrann Bromley, MD, Jane Corteville, MD, and Lindley Diacon, MD, RDMS, RPVI*

1:00 PM–2:00 PM
**Elastography: Principles, Methods, Applications, and Future Directions**
*Moderator: Kevin Parker, PhD*
Marquis Ballroom C • Ninth Floor
*Speaker: Jonathan Ophir, PhD*

The objective of this presentation is to familiarize the audience with the basic principles of elastography. These will include discussions of the basics of mechanics, ultrasonic signal processing, and imaging methods that are involved in the generation of elastograms. Areas of clinical application and future directions of this technology will also be demonstrated and discussed.
Categorical Courses

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

From Common to Complex: Ultrasound Management of Multiple Gestation Pregnancies

*Moderator: David Schrimmer, MD*

**Manhattan Ballroom • Eighth Floor**

This course will cover the ultrasound evaluation of both normal and abnormal multiple gestations.

- **2:15 PM–2:35 PM** Gina James, BA, RDMS
- **2:35 PM–2:55 PM** Lynlee Wolfe, MD
- **2:55 PM–3:15 PM** Jerasimos Ballas, MD
- **3:15 PM–3:45 PM** David Schrimmer, MD

Hand and Wrist

*Moderator: Jon Jacobson, MD*

**Marquis Ballroom A/B • Ninth Floor**

This less often discussed joint area will be discussed from a viewpoint of sports medicine, orthopedics, physical medicine and rehabilitation, rheumatology, and radiology.

- **2:15 PM–2:37 PM** Sonoanatomy and Scan Technique
  *Jon Jacobson, MD*
- **2:37 PM–3:00 PM** Advanced Sonoanatomy of the Hand and Wrist
  *Kenneth Lee, MD*
- **3:00 PM–3:22 PM** Sonographic Assessment of Common Causes of Wrist Pain
  *Carolyn Sofka, MD*
- **3:22 PM–3:45 PM** Rheumatologic Aspects of Hand and Wrist Ultrasound
  *Jonathan Samuels, MD*
Hands-on: How to Do the Biopsy
Moderator: Vikram Dogra, MD
Empire Complex • Seventh Floor
This hands-on ultrasound-guided biopsy workshop will provide practical demonstrations of thyroid, breast, liver, and kidney biopsies and a lecture on preprocedure preparation, technique, and complications of biopsies in general.

2:15 PM–3:45 PM Hands-on Session
Lab Faculty: Nami Azar, MD, Shweta Bhatt, MD, Nancy Carson, MBA, RDMS, RVT, Wui Chong, MD, Corinne Deurdulian, MD, Rick Feld, MD, Mark Lockhart, MD, MPH, Dean Nakamoto, MD, Raj Paspulati, MD, Deborah Rubens, MD, and Leslie Scoutt, MD

Is Ultrasound Safe? A Mock Trial
Moderators: Jacques Abramowicz, MD, and Christy Holland, PhD
Astor Ballroom • Seventh Floor
Judge: Jacques Abramowicz, MD
Judge: Christy Holland, PhD
Prosecutor: Thomas Nelson, PhD, 2 expert witnesses
Defender: J. Brian Fowlkes, PhD, 2 expert witnesses
This course will discuss bioeffects of ultrasound and present the material in a format attractive to clinicians practicing ultrasound imaging.
Is What We Have Enough? New Directions and Reassurances

Moderator: James Pennington, RDMS

Broadway Ballroom South • Sixth Floor

The attendees should take away a renewed sense of diagnostic vigilance and direction of where the field of obstetric and gynecologic ultrasound is going.

2:15 PM–2:37 PM
Going Beyond the Protocol: Pushing the Envelope With Your Technology
Beryl Benacerraf, MD

2:37 PM–3:00 PM
You Are Not Alone
Lawrence Platt, MD

3:00 PM–3:22 PM
Neuroanatomic Syllabus for Perinatal Sonographers: The Future Is Now
David Jackson, MD

3:22 PM–3:45 PM
What Else Can We Do? Another Potential Role for the Sonographer
James Pennington, RDMS

Pediatric Oncologic Sonography

Moderator: Beth Kline-Fath, MD

Shubert Complex • Sixth Floor

This course is designed to review the role of ultrasound in evaluation and characterization of tumors of the head and neck, chest, abdomen, and pelvis in children.

2:15 PM–2:45 PM
Tumors of the Head, Neck, and Chest
Beth Kline-Fath, MD

2:45 PM–3:15 PM
Abdominal Tumors
Mary Beth McCarville, MD

3:15 PM–3:45 PM
Tumors of the Genitourinary Tract
Rob Goodman, MD
**Pelvic Ultrasound and Laparoscopy: A Perfect Diagnostic Combination**  
*Moderator: James Shwayder, MD, JD*  
*Broadway Ballroom North • Sixth Floor*

The objective of this course is to present the laparoscopic equivalents of the most common pathologies seen on ultrasound. It will include ovarian tubal as well as selected uterine pathologies.

2:15 PM–3:00 PM  
**Tubes and Ovaries**  
*James Shwayder, MD, JD*

3:00 PM–3:45 PM  
**Interesting Cases**  
*Anna Parsons, MD*

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**Small-Animal Preclinical High-Frequency Imaging**  
*Moderator: Gregory Czarnota, PhD, MD*  
*Marquis Ballroom C • Ninth Floor*

The objective of this course is to review the state of the art in high-resolution micro-ultrasound imaging of preclinical disease models and therapy evaluations.

2:15 PM–2:37 PM  
**Microbubble Contrast Ultrasound to Monitor “In Vivo” Tumor Perfusion in Response to Notch Pathway Inhibitors**  
*Stanley Liu, PhD*

2:37 PM–3:00 PM  
**The State of the Art in High-Frequency Preclinical Small-Animal Ultrasound**  
*Stuart Foster, PhD*

3:00 PM–3:22 PM  
**Role of Quantitative Ultrasound in High-Frequency Ultrasonic Imaging**  
*Michael Oelze, PhD*

3:22 PM–3:45 PM  
**High-Frequency Preclinical Ultrasound: Cardiac Applications**  
*Elisa Konofagou, PhD*
**Update on Imaging of Organ Transplants**

*Moderator: Ulrike Hamper, MD, MBA*

*Soho/Herald • Seventh Floor*

The objective of this course is to update and review the role of ultrasound in liver, kidney, and pancreas transplants.

- **2:15 PM–2:45 PM** Renal Transplants  
  *Myron Pozniak, MD*

- **2:45 PM–3:15 PM** Liver Transplants  
  *Ulrike Hamper, MD, MBA*

- **3:15 PM–3:45 PM** Pancreatic Transplants  
  *Edward Bluth, MD*

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**4:00 PM–5:30 PM**

**Committee Meetings**

- **Clinical Standards Committee**  
  *Cantor • Ninth Floor*

- **Membership Committee**  
  *Jolson • Ninth Floor*
4:00 PM–5:30 PM

Scientific Sessions

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

BSI Basic Science: Instrumentation
Moderators: Kathryn Nightingale, PhD, and Kai Thomenius, PhD
Marquis Ballroom C • Ninth Floor

4:00 PM–4:12 PM
933726 Phase Characteristics for Polyaninide Difluoride Membrane Hydrophones in the Frequency Range of 1 to 100 MHz Using a Nonlinear Acoustics Approach
Lewin, Peter*; Bloomfield, Philip; Gandhi, Gaurav

4:12 PM–4:24 PM
988889 Time Domain Spectrometry for Measurement of the Hydrophone Phase Response
Wear, Keith*; Maruvada, Subha; Gammell, Paul; Liu, Yunbo; Harris, Gerald

4:24 PM–4:36 PM
990697 Measurement of Sound Speed Using Reflection Ultrasound Tomography
Nebeker, Jakob; Nelson, Thomas*

4:36 PM–4:48 PM
990728 Investigation of Mesh Materials for a Compression Paddle Used in a Combined 3-Dimensional Ultrasound–3-Dimensional X-ray Breast-Imaging System
LeCarpentier, Gerald*; Goodsitt, Mitchell; van der Spek, Sacha; Li, Jie; Padilla, Frederic; Hooi, Fong-Ming; Sinha, Sumeedha; Carson, Paul

4:48 PM–5:00 PM
988133 Measuring Dispersion of a Biological Medium With Crawling Waves Synthesized From Ultrasonic Radiation Force
Hah, Zaegyoo*; Mills, Bradley; Hazard, Chris; Parker, Kevin; Rubens, Deborah

5:00 PM–5:12 PM
989643 Three-Dimensional Doppler Ultrasound in Obtaining Cardiac Output
Kripfgans, Oliver*; Desai, Tej; Fowlkes, J. Brian; Zhang, Maggie; Pinter, Stephen; Hall, Anne; Rubin, Jonathan

5:12 PM–5:24 PM
976158 Carotid Artery Wall Segmentation and Intima-Media Thickness Measurement: A Benchmark of 5 Automated Techniques on a Multi-Institutional Database of 300 Longitudinal Images
Molinari, Filippo*; Meiburger, Kristen; Zeng, Guang; Acharya, Rajendra; Nicolaides, Andrew; Suri, Jasjit
Breast Ultrasound
Moderators: Susan Ackerman, MD, and Abid Irshad, MD
Shubert • Sixth Floor

4:00 PM–4:12 PM
904939 Incidence of an Echogenic Sonographic Appearance in Pure Lobular Carcinoma of the Breast
Jones, Katie*; Glazebrook, Katrina; Reynolds, Carol; Boughey, Judy

4:12 PM–4:24 PM
977208 Radiologic Evaluation of Palpable Breast Masses During Pregnancy and Lactation
Abbas, Iman*; Elghawabi, Hamed; Salaheldin, Lamia

4:24 PM–4:36 PM
982228 Acoustic Features of Invasive Ductal Mammary Carcinoma Based on Age, Race, and Hormone Status
Irshad, Abid*; Ackerman, Susan; Leddy, Rebecca; Lewis, Madeline; Shazly, Mehwish; Pope, Thomas; Campbell, Amy; Cluver, Abbie

4:36 PM–4:48 PM
987654 New Image-Processing Technique for Evaluating Breast Microcalcifications: A Comparative Study
Machado, Priscilla*; Eisenbrey, John; Cavanaugh, Barbara; Forsberg, Flemming

4:48 PM–5:00 PM
988144 Continued Experience With Elasticity Imaging in a Community-Based Breast Center
Destounis, Stamatia*; Arieno, Andrea; Morgan, Renee; Vogt, Cortney

5:00 PM–5:12 PM
989286 Performance of 3-Dimensional Automated Ultrasound as an Adjunct to Digital Breast Tomosynthesis for Breast Mass Characterization
Padilla, Frederic*; Roubidoux, Marilyn; Paramagul, Chintana; Sinha, Sumedha; Gooditt, Mitchell; LeCarpentier, Gerald; Chan, Heang-Ping; Hadjiiski, Lubomir; Fowlkes, J. Brian; Joe, Annette; Klein, Katherine; Nees, Alexis; Noroozian, Mitra; Patterson, Stephanie; Pinsky, Renee; Hooi, Fong-Ming; Carson, Paul

5:12 PM–5:24 PM
990721 Multimodality Computer-Aided Diagnosis of Breast Cancer on Ultrasound and Mammography
Cary, Ted*; Pouch, Alison; Sehgal, Chandra
**Contrast-Enhanced Ultrasound**

**Moderators:** Daniel Merton, BS, RDMS, and Michelle Robbin, MD

**Soho/Herald/Gramercy • Seventh Floor**

**4:00 PM–4:12 PM**

**952548** Comparing Enhancement and Wash-Out Patterns of Hepatic Lesions Between Sonazoid-Enhanced Ultrasound and Contrast-Enhanced Computed Tomography

Patel, Sneha*; Saito, Akiko; Yoneda, Yuki; Shiratori, Keiko; Katagiri, Satoshi; Yamamoto, Masakazu

**4:12 PM–4:24 PM**

**981278** Comparison of Intraoperative and Percutaneous 3-Dimensional Contrast-Enhanced Cholangiography in the Diagnosis of Biliary Anatomic Variations

Xu, Er-jiao*; Zheng, Rong-qin; Liao, Mei; Mao, Ren; Ren, Jie; Li, Kai; Su, Zhong-zhen; Chen, Gui-hua

**4:24 PM–4:36 PM**

**983921** Correlation of Contrast-Enhanced Ultrasonography With Histologic Assessment of Tumor Angiogenesis in Bevacizumab-Treated Human Metastatic Liver Tumors From Colorectal Cancer

Kitamura, Hiroshi*; Matsumura, Hideyasu; Yokoi, Kenta; Nakagawa, Kan; Arai, Masayuki; Koike, Shoicho; Nakazawa, Isao

**4:36 PM–4:48 PM**

**976153** Computer-Based Diagnosis of Benign Versus Malignant Thyroid Lesions on 3-Dimensional Contrast-Enhanced Ultrasound Using Discrete Wavelet Transformation and Texture Features

Acharya, Rajendra; Molinari, Filippo; Suri, Jasjit*

**4:48 PM–5:00 PM**

**986777** Application of Intracavitary Contrast-Enhanced Ultrasonography in the Location of Drainage Tubes

Xu, Er-jiao*; Zheng, Rong-qin; Li, Kai; Guo, Huan-yi; Ren, Jie; Mao, Ren; Yuan, Shu-fang; Su, Zhong-zhen

**5:00 PM–5:12 PM**

**990338** Ultrasound Imaging of Dual-Targeted Microbubbles to Head and Neck Squamous Cell Carcinoma

Knowles, Joseph; Heath, Hope; Saini, Reshu; Umphrey, Heidi; Hoyt, Kenneth*; Rosenthal, Eben

**5:12 PM–5:24 PM**

**987246** Diagnostic Value of Contrast-Enhanced Ultrasonography in Breast Mass Lesions Using Microflow Imaging

Nakata, Norio*; Onoue, Kaoru; Nishioka, Makiko; Miyamoto, Yukio; Fukuda, Kunihiko
General Abdominal and Genitourinary Ultrasound

Moderators: Mark Lockhart, MD, MPH, and Sharlene Teefey, MD

Broadway Ballroom South • Sixth Floor

4:00 PM–4:12 PM

985717 Trying Different Schemes in Antibiotic Prophylaxis of Transrectal Ultrasound Biopsy of the Prostate Results in Minimizing Infectious Biopsy-Related Complications
Zoumpoulis, Pavlos*; Giamarellou, Eleni; Cokkinos, Demosthenis; Panagopoulos, George

4:12 PM–4:24 PM

963305 Prospective Evaluation of Positive and Negative Predictive Values of the Twinkling Artifact in Renal Calculi
Kielar, Ania*; Vakili, Maryam; Shabana, Wael; Rubin, Jonathan

4:24 PM–4:36 PM

990636 Sepsis Following Transrectal Ultrasound-Guided Prostate Biopsy: Etiology and Antibiotic Susceptibility Profile
Toi, Ants*; Brunton, James; Menezes, Ravi; Finelli, Anthony; Fleshner, Neil

4:36 PM–4:48 PM

989440 Acoustic Radiation Force Impulse Imaging–Based Tissue Elasticity Quantification and Kidney Graft Dysfunction: First Clinical Experiences
Stock, Konrad*; Klein, Bettina; Vo Cong, Minh; Büttner, Meike; Wagenpfeil, Stefan; Matevosian, Eduard; Heemann, Uwe; Küchle, Claudius

4:48 PM–5:00 PM

939413 Multimodality Correlation in Diagnosing Renal Artery Stenosis
McDowell, Jennifer

5:00 PM–5:12 PM

987900 Noninvasive Prediction of Advanced Esophageal Varices With Doppler Ultrasonography in Patients With Portal Hypertension
Matsutani, Shoichi*; Fukuzawa, Takeshi; Mizumoto, Hideaki; Suzuki, Yasutoshi

5:12 PM–5:24 PM

990472 Novel Quantitative Method for Detecting Arterial Stenosis
Chan, Sherwin*; Dighe, Manjiri; Dubinsky, Theodore; Kim, Yongmin
**OB Obstetric Ultrasound: General**  
**Moderators: Gina James, BA, RDMS, and Julian Robinson, MD**  
**Broadway Ballroom North • Sixth Floor**

4:00 PM–4:12 PM  
**985331**  
Diagnostic Performance and Interobserver Agreement of Intracranial Translucency in the Detection of Open Neural Tube Defects at the 11- to 13+6-Week Scan  
Fong, Katherine*; Toi, Ants; Okun, Nanette; Al-Shami, Eman; Fienberg, Samantha; Karimzad, Yasser; Menezes, Ravi

4:12 PM–4:24 PM  
**988211**  
Evaluation of Placental Blood Flow Using 3-Dimensional Ultrasound and a Doppler Technique in Pregnancies Complicated by Diabetes  
Danon, David; Binyamin, Liat; Meizner, Israel*

4:24 PM–4:36 PM  
**987878**  
Stepwise Sequential Screening Performance in Clinical Practice  
Wax, Joseph*; Cartin, Angelina; Smith, Rosemarie; Smith, Dwight; Chard, Renée; Carpenter, Molly; Pinette, Michael

4:36 PM–4:48 PM  
**989294**  
Can Low Middle Cerebral Artery Dopplers Predict Adverse Fetal Outcomes?  
Cruz-Pachano, Francisco; Cordova, Yvette; Verma, Usha; Romary, Leticia; Achille, Fabienne*

4:48 PM–5:00 PM  
**989332**  
Improved Fetal Heart Rate Monitoring With a Novel Wide-Beam Transducer  
Lewis, George; Gelber, Steven*

5:00 PM–5:12 PM  
**987883**  
Second-Trimester Genetic Ultrasound Following Stepwise Sequential Screening  
Wax, Joseph*; Cartin, Angelina; Smith, Dwight; Smith, Rosemarie; Chard, Renée; Carpenter, Molly; Pinette, Michael

4:00 PM–5:30 PM  
**Accreditation “Getting Started” Workshop**  
Paula Woletz, MPH, RDMS, RDCS  
**Majestic/Music Box • Sixth Floor**

By the end of this workshop, participants will understand the accreditation requirements and process and how to complete the application and select case studies.
Look for

Case-of-the-Day Challenges

Located outside the Exhibit Hall on the Fifth Floor

Test your abilities each day by diagnosing unique case studies.

Case-of-the-Day Challenges are supported in part by Parker

Follow the AIUM on Twitter at AIUM_Ultrasound and search/use hashtag #AIUM11 for all convention-related tweets.

Need help getting started?
Stop by the AIUM Office on the 7th floor—
we’ll get you set up and show you how easy it is!

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Saturday, April 16
Convention

Schedule at a Glance

7:00 AM–4:30 PM Registration Open
8:00 AM–10:00 AM Categorical Courses
8:00 AM–10:00 AM Fetal Echocardiography Volume Data Set Session
9:30 AM–4:30 PM Exhibit Hall Open
10:00 AM–11:00 AM Refreshment Break in the Exhibit Hall
10:00 AM–11:00 AM Community of Practice Meetings
10:30 AM–12:30 PM Obstetric Volume Data Set Session
11:00 AM–12:30 PM Scientific Sessions
11:00 AM–12:30 PM New Investigator Award Session
12:30 PM–1:30 PM Lunch in the Exhibit Hall
12:30 PM–1:30 PM Scientific Poster Discussions
1:00 PM–3:00 PM General Abdominal Volume Data Set Session
1:00 PM–1:30 PM Community of Practice Meetings
1:30 PM–3:30 PM Categorical Courses
3:30 PM–4:30 PM Refreshment Break in the Exhibit Hall
3:30 PM–4:30 PM Community of Practice Meetings
3:30 PM–5:30 PM Gynecology Volume Data Set Session
4:30 PM–5:30 PM Scientific Sessions
4:30 PM–5:30 PM Just Images Sessions
7:00 PM–11:00 PM Leadership Banquet (by invitation only)
### Student/Resident Day Program

**Diagnostic Ultrasound: From the Basics to the Future**  
*Program Chairs: Joan Mastrobattista, MD, and Peter Arger, MD*  
*Soho/Herald • Seventh Floor*

This course is designed specifically for residents and medical students with no prior ultrasound experience and will provide the basics of diagnostic ultrasound imaging. Equipment terminology and functionality will be discussed. Participants will learn about principles of sonography and Doppler principles, knobology and machine controls, abdominal imaging, emergency department ultrasound, obstetric and gynecologic ultrasound, duplex Doppler, and carotid imaging. New this year is the hands-on portion of the course during the afternoon session with live scanning. On completion of this course, participants will be aware of the importance of ultrasound energy and the effects of improper machine settings and will learn tricks to optimize image quality.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 8:00 AM–8:10 AM  | Welcome/Announcements  
*Peter Arger, MD, Joan Mastrobattista, MD* |
| 8:10 AM–9:00 AM  | Principles of Sonography  
*Frederick Kremkau, PhD* |
| 9:00 AM–9:30 AM  | Abdominal Imaging  
*Franklin Tessler, MD* |
| 9:30 AM–10:00 AM | Obstetric Ultrasound  
*Gary Eglinton, MD* |
| 10:00 AM–10:45 AM| Coffee Break in Exhibit Hall |
| 10:45 AM–11:15 AM| Gynecologic Ultrasound (2- and 3-Dimensional)  
*Robert Troiano, MD* |
| 11:15 AM–11:45 AM| Emergency Room Ultrasound  
*Michael Blaivas, MD* |
| 11:45 AM–12:15 PM| Carotid Imaging and Duplex Doppler  
*Meg Richman, MD* |
| 12:30 PM–1:45 PM | Lunch in Exhibit Hall |
| 1:45 PM–2:15 PM  | Knobology and Machine Controls  
*J. Oscar Barahona, BS, RDMS* |
| 2:15 PM–5:00 PM  | Live Scanning and Sonographer Assistance With Machine Controls |
| 3:30 PM–4:30 PM  | Coffee Break in Exhibit Hall *(optional)* |

Participants are invited to view Scientific Posters and walk through the Exhibit Hall.
**8:00 AM–10:00 AM**

**Categorical Courses**

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

**CEUS**

**Contrast-Enhanced Ultrasound: The Basics**  
*Moderator: Lennard Greenbaum, MD*

**Majestic/Music Box • Sixth Floor**

The objective of this course is to make the general ultrasound community more aware of the advantages of using ultrasound contrast agents.

- **8:00 AM–8:25 AM**  
  What Are Microbubbles; Who Makes Them; and How Do They Work?  
  *Peter Burns, PhD*

- **8:25 AM–8:50 AM**  
  Practical Aspects of Performing Contrast-Enhanced Sonographic Examinations  
  *Daniel Merton, BS, RDMS*

- **8:50 AM–9:15 AM**  
  Regulatory and Reimbursement Issues  
  *Michael Main, MD*

- **9:15 AM–9:40 AM**  
  Guidelines for the Use of Ultrasound Contrast Agents  
  *David Cosgrove, MA, MSC*

- **9:40 AM–10:00 AM**  
  Food and Drug Administration Perspective on Ultrasound Contrast Agent Safety  
  *Ira Krefting, MD*

**BSI G&A**

**Elastography (Strain Imaging)**  
*Moderators: Caterina Gallippi, PhD, and Tomy Varghese, PhD*

**Marquis Ballroom C • Ninth Floor**

This course will update and familiarize the audience with the latest technical and clinical advances in ultrasound elastography, the progress of this technology over the last decade, and new insights into novel clinical applications. A discussion on magnetic resonance elastography will also be presented.

- **8:00 AM–8:24 AM**  
  Three-Dimensional Vibration Elastography and Crawling Waves  
  *Kevin J. Parker, PhD*

- **8:24 AM–8:48 AM**  
  Elastography: What You Can Use It for Today… and Tomorrow  
  *Brian Garra, MD*

- **8:48 AM–9:12 AM**  
  Radiation Force-Based Imaging and Measurement Methods  
  *Gregg Trahey, PhD*

- **9:12 AM–9:36 AM**  
  Magnetic Resonance Imaging-Acoustic Radiation Force Impulse–Guided Focused Ultrasound  
  *Kimberly Butts Pauly, PhD*

- **9:36 AM–10:00 AM**  
  Methods for Interrogating Viscoelastic Tissue Properties  
  *Caterina Gallippi, PhD*
First- and Second-Trimester 3- and 4-Dimensional Anatomy

Moderator: Jude Crino, MD

Broadway Ballroom North • Sixth Floor

A discussion of the techniques, views, and protocols will be reviewed, including how to overcome imaging constraints. First-trimester ultrasound will be viewed via previously obtained images. This course will cover both normal anatomy and anomalies seen in the first and second trimesters using 3- and 4-dimensional ultrasound.

8:00 AM–8:35 AM  Three- and Four-Dimensional Ultrasound: Second and Third Trimesters—Imaging Techniques and Protocols  
Lorene Romine, MD

8:35 AM–9:10 AM  What Are the Europeans Doing?  
Ilan Timor-Tritsch, MD

9:10 AM–9:45 AM  Clinical Applications of 3- and 4-Dimensional Ultrasound in the First- and Second-Trimester  
Yaron Zalel, MD

9:45 AM–10:00 AM  Questions and Answers

Hands-on Carotid and Transcranial Doppler Ultrasound: Technique and Basic Interpretation

Moderators: Eva Bartels, MD, and M. Robert De Jong, RDCS, RDMS, RVT

Empire/Hudson • Seventh Floor

After this course, attendees will be able to describe the technique for carotid ultrasound testing, describe the technique for transcranial Doppler testing, discuss the indications and interpretation of carotid ultrasound studies, and discuss the indications and interpretation of transcranial Doppler ultrasound studies. This session is combined with the Cardiovascular Ultrasound and Neurosonology Communities of Practice.

8:00 AM–8:20 AM  Anatomy and Technique of Transcranial Doppler Ultrasound  
Tatjana Rundek, MD, PhD

8:30 AM–8:50 AM  Anatomy and Technique of Carotid Ultrasound  
M. Robert De Jong, RDCS, RDMS, RVT

8:50 AM–10:00 AM  Hands-on Session  
Faculty: Eva Bartels, MD, M. Robert De Jong, RDCS, RDMS, RVT, Zsolt Garami, MD, Michael Katsnelson, MD, Liz Ladrido, RDMS, Tatjana Rundek, MD, PhD, Leslie Scoutt, MD, Charles Tegeler, MD, and Tricia Turner, RDMS
Hands-on Ultrasound-Guided Vascular Access

Moderators: Michael Blaivas, MD, and Vikram Dogra, MD
Chelsea/Gotham • Seventh Floor

The literature has shown that vascular access using real-time ultrasound guidance reduces the number of attempts, mechanical complications, and time to cannulation. Ultrasound guidance also increased success rates and first-attempt success rates. This has led the Agency for Healthcare Research and Quality and other organizations to identify the use of ultrasound guidance for vascular access as a key patient safety intervention. Recent data have evaluated the different techniques of real-time ultrasound guidance. Optimally, the vessel is visualized in a longitudinal plane with real-time visualization and guidance of the needle with particular attention to the needle tip. While positioning and adjunctive measures may differ based on the site and particular vessel being accessed, the basic skills and techniques remain the same. This lecture and hands-on course will discuss techniques for real-time ultrasound-guided vascular access with a focus on the use of sagittal or long-axis needle guidance to increase success and decrease complications of ultrasound-guided vascular access. Tricks of the trade and advanced techniques will be covered for more advanced users. This is a joint Interventional Radiology and Emergency and Critical Care Ultrasound Community of Practice course.

8:00 AM–8:20 AM
Ultrasound-Guided Vascular Access
Jason Nomura, MD, RDMS

8:20 AM–10:00 AM
Hands-on Session
Faculty: Michael Blaivas, MD, RDMS, Betty Chang, MD, RDMS, Gerardo Chiricolo, MD, RDMS, Vikram Dogra, MD, Rajesh Geria, MD, RDMS, Daniel Morrison, MD, Dean Nakamoto, MD, Raj Paspulati, MD, Christopher Raio, MD, RDMS, Dennis Trigueros, MD
Pelvic Pain

*Moderator: Ana Monteagudo, MD*

**Broadway Ballroom South • Sixth Floor**

The objective of this course is to present complex, complicated sonographic expressions of diseases with their systematic workup using all of the available ultrasound imaging tools available. Each expert will present 2 or 3 cases complete with indications, imaging, pathologic correlation, and the pertinent literature. Cases will include emergency department ultrasound, ectopic pregnancy, and uterine bleeding.

**8:00 AM–8:35 AM**

**Approach to Pelvic Pain: The Role of Imaging**

*Rochelle Andreotti, MD*

**8:35 AM–9:10 AM**

**Acute Pelvic Pain**

*William Brown III, MD*

**9:10 AM–9:45 AM**

**Differential Diagnosis of Pelvic Pain**

*Ana Monteagudo, MD*

**9:45 AM–10:00 AM**

**Questions and Answers**

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Point-of-Care Evaluation of Pediatric Cardiac, Abdominal, and Pulmonary Emergencies and Evaluation of the Unstable Patient in the Emergency and Critical Care Settings

*Moderator: James Tsung, MD, MPH*

**Shubert Complex • Sixth Floor**

This course will cover the bedside clinical ultrasound evaluation of the ill child with potential cardiac, vascular, or pulmonary disasters. The course will focus on state-of-the-art point-of-care ultrasound applications in bedside evaluation of pediatric-specific cardiac, vascular, and pulmonary medical as well as traumatic and other surgical illness. The course will focus on rapid bedside evaluation and its integration into bedside clinical decision making and initial treatment. It also will focus on the utility of ultrasound to narrow the differential diagnosis and therapeutic approaches to a variety of common presentations of hemodynamic instability in emergency and critical care units. The course will focus on rapid assessment of cardiac, pulmonary, and vascular status as well as airway evaluation.

**8:00 AM–8:30 AM**

**Lung Ultrasound in Pediatric Respiratory Distress**

*Vaishali Shah, MD*

**8:30 AM–9:00 AM**

**Cardiac Ultrasound in Critically Ill and Injured Children**

*TBA*

**9:00 AM–9:30 AM**

**Point-of-Care Evaluation of Pediatric Abdominal Emergencies**

*Adam Sivitz, MD*

**9:30 AM–10:00 AM**

**Incorporating Point-of-Care Ultrasound Into Advanced Pediatric Life Support**

*James Tsung, MD, MPH*
Practice Management 1
Moderator: Jennifer McDowell, RVT, RDMS, RT
Manhattan Ballroom • Eighth Floor

This course will discuss the following topics: evaluating equipment and accessories (tables and chairs); designing an ergonomic work area in the scanning room and nonscanning areas; identifying ultrasound examinations that have a high association with musculoskeletal injuries and how to address these examinations; customer service and employee engagement—it’s not just for the chief sonographer/manager anymore; and how to market your practice.

8:00 AM–9:00 AM  Licenses: Pros and Cons
George Berdejo, BA, RVT

9:00 AM–10:00 AM  Identifying and Preventing Exams With a High Incidence of Musculoskeletal Injury
Jennifer McDowell, RVT, RDMS, RT

Sonography of Pediatric Liver and Kidney Transplants Combined With Vascular Sonography in Children
Moderator: Brian Coley, MD
Marquis Ballroom A/B • Ninth Floor

The objective of this course is to discuss the sonographic features of complications related to liver and kidney transplantation in children and to review the technique and application of vascular sonography in investigating disorders of the arteries and veins in the pediatric abdomen, pelvis, and extremities.

8:00 AM–8:30 AM  Normal Anatomy and Complications of Renal Transplantation
Lynn Fordham, MD

8:30 AM–9:00 AM  Normal Anatomy of Hepatic and Multivisceral Transplantation
Carol Barnewolt, MD

9:00 AM–9:30 AM  Complications of Hepatic and Multivisceral Transplantation
Sara O’Hara, MD

9:30 AM–10:00 AM  Pediatric Vascular Sonography
Brian Coley, MD
Thyroid Ultrasound

Moderators: Shweta Bhatt, MD, and Mark Lockhart, MD, MPH

Astor Ballroom • Seventh Floor

The volume of thyroid ultrasound examinations and biopsies of thyroid nodules has risen dramatically in recent years. This course will cover the following issues: current sonographic criteria for characterization of thyroid nodules; indications for ultrasound-guided thyroid nodule biopsy and technique; a panel discussion of Society of Radiologists in Ultrasound criteria; increasing workload; ultrasound evaluation of the post-thyroidectomy neck; and ultrasound evaluation of the parathyroids and cervical nodes.

8:00 AM–8:30 AM Prebiopsy Preparation
Corinne Deurdulian, MD

8:30 AM–9:00 AM Thyroid/Lymph Node Biopsy
Lynwood Hammers, BA, MA, DO

9:00 AM–9:30 AM Post-Thyroidectomy Neck Evaluation
Edward Grant, MD

9:30 AM–10:00 AM Society of Radiologists in Ultrasound Criteria
Jill Langer, MD

8:00 AM–10:00 AM
Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography

This session will be used to introduce laptop-based handling of 3-dimensional (3D) software and provide guided assistance to improve 3D ultrasound-based diagnostic skills.

Faculty:

GE Healthcare: Greggory DeVore, MD, and Diana Strickland, BS, BA, RDMS, RDCS
Palace • Sixth Floor

Philips Healthcare: Leebner Cohen, MD, and Linda Sheets, BS, RDMS, RDCS, RVT
Royale • Sixth Floor

Siemens Medical Solutions: Maria Hidvegi, and Johannes Steinhard, MD
Winter Garden • Sixth Floor
9:00 AM–10:00 AM
Continuing Medical Education Committee Meeting
Cantor • Ninth Floor

10:00 AM–11:00 AM
Refreshment Break in the Exhibit Hall
Westside Ballroom • Fifth Floor

10:00 AM–11:00 AM
Community of Practice Meetings

- **CARDIO**
  - Cardiovascular Ultrasound
    - Marquis Ballroom A/B • Ninth Floor

- **CEUS**
  - Contrast-Enhanced Ultrasound
    - Majestic/Music Box • Sixth Floor

- **ERCC**
  - Emergency and Critical Care Ultrasound
    - Shubert Complex • Sixth Floor

- **FE**
  - Fetal Echocardiography
    - Broadway Ballroom North • Sixth Floor

- **SONO**
  - Practice of Sonography
    - Manhattan Ballroom • Eighth Floor

10:30 AM–12:30 PM
Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics

This session will be used to introduce laptop-based handling of 3-dimensional (3D) software and provide guided assistance to improve 3D ultrasound-based diagnostic skills.

**Faculty:**

- **GE Healthcare:** Deborah D’Agostino, RDMS, and Lorene Romine, MD
  - Palace • Sixth Floor

- **Philips Healthcare:** Cesar Patino, RDMS, and Dolores Pretorius, MD
  - Royale • Sixth Floor

- **Siemens Medical Solutions:** Pavil Calda, MD, and Maria Hidvegi
  - Winter Garden • Sixth Floor
11:00 AM–12:30 PM

Scientific Sessions

Six concurrent sessions, each including up to 8 presentations on the latest ultrasound research, are offered during this period. *indicates presenter.

BSI Basic Science: Tissue Characterization 1
Moderators: Mark Holland, PhD, and William O’Brien Jr, PhD
Marquis Ballroom C

11:00 AM–11:12 AM
980472 High-Frequency 3-Dimensional Quantitative Ultrasound and Envelope Statistics for Imaging Occult Metastases in Lymph Nodes
Feleppa, Ernest*; Mamou, Jonathan; Oelze, Michael; Saegusa-Beecroft, Emi; Hata, Masaki; Coron, Alain; Machi, Junji; Yanagihara, Eugene; Laugier, Pascal

11:12 AM–11:24 AM
992482 Novel Conventional-Frequency Detection of Cell Death In Vivo With Neoadjuvant Chemotherapy for Locally Advanced Breast Cancer
Czarnota, Gregory*; Lee, Justin; Papanicolau, Naum; Sofroni, Ervis; Iradji, Sara; Kolios, Michael

11:24 AM–11:36 AM
989378 Ultrasonic Backscatter Coefficient Quantitative Estimates From Chinese Hamster Ovary and 3T3 Cell Pellet Biophantoms
Han, Aiguo*; Teisseire, Maxime; Abuhabsah, Rami; Blue, James; Sarwate, Sandhya; O’Brien, William Jr

11:36 AM–11:48 AM
987288 Cross-Imaging Platform Comparison of Ultrasonic Backscatter Coefficient Measurements for Rat Fibroadenomas
Wirtzfeld, Lauren*; Ghoshal, Gautam; Nam, Kibo; Labyed, Yassin; Sen-Gupta, Ellora; Rosado-Mendez, Ivan; Haak, Alexander; Pawlicki, Alexander; Battles, Andrew; He, Zhi; Hirtz, Nathan; Miller, Rita; Sarwate, Sandhya; Blue, James; Simpson, Douglas; Bigelow, Timothy; Zagzebski, James; Oelze, Michael; Hall, Timothy; O’Brien, William Jr

11:48 AM–12:00 PM
989651 Measuring Backscattered Power With Beam Steering to Detect Aligned Scatterers
Reusch, Lisa; Feltovich, Helen*; Carlson, Lindsey; Madsen, Ernest; Frank, Gary; Hall, Timothy

12:00 PM–12:12 PM
989715 Robust Estimates of Acoustic Attenuation in Small Tumor Volumes
Rosado-Mendez*, Ivan; Nam, Kibo; Hall, Timothy; Zagzebski, James

12:12 PM–12:24 PM
989626 Attenuation of In Vivo Breast Masses: Comparison of 2 Quantitative Techniques
Nam, Kibo*; Zagzebski, James; Hall, Timothy
Musculoskeletal Ultrasound
Moderator: Seerat Aziz, MD
Astor Ballroom • Seventh Floor

11:00 AM–11:12 AM
990565 Treatment of Chronic Lateral Epicondylosis Using a Hyperosmolar Dextrose Solution: Can Acoustoelastography Monitor Tissue Healing?
Lee, Kenneth*; Kobayashi, Hirohito; Vanderby, Raymond; Wilson, John; Rosas, Humberto; Rabago, David

11:12 AM–11:24 AM
977024 Sonographic Evaluation of the Greater Occipital Nerve in Occipital Neuralgia
Cho, John; Haun, Daniel*; Kettner, Norman

11:24 AM–11:36 AM
990341 A New Application of Ultrasound Imaging to Characterize Tissue Properties and Blood Flow in Myofascial Pain Syndromes
Sikdar, Siddhartha*; Ortiz, Robin; Shah, Jay; Gebreab, Tadesse; Gerber, Lynn

11:36 AM–11:48 AM
985761 Ultrasound Imaging and Elastography of the Rotator Cuff Muscles: Elasticity Measurements of the Supraspinatus and Infraspinatus Muscles Using Shear Wave Elastography
Plagou, Athena*; Fandridis, Emmanouil; Gerostathopoulos, Nikolaos; Mpouhra, Konstantina; Zoumpoulis, Pavlos

11:48 AM–12:00 PM
990672 Effect of Subdeltoid Bursa Injection of Xylocaine Only or Mixed With a Steroid After Repeated Puncture of Calcified Tendinosis of the Rotator Cuff
Chiou, Hong-Jen*; Lin, Shan-Yang; Chou, Cheng-Lian; Chou, Yi-Hong

12:00 PM–12:12 PM
Questions and Answers
11:00 AM–12:30 PM
New Investigator Session
Moderators: Arthur Fleischer, MD, and Elisa Konofagou, PhD
Marquis Ballroom A/B • Ninth Floor

The New Investigator Award is supported in part by an educational grant from ULTRASONIX

11:00 AM–11:12 AM
Development of a Triple-Targeted Contrast Agent for Ultrasound Imaging of Angiogenic Markers in Breast Cancer
Sorace, Anna*; Warram, Jason; Saini, Reshu; Umphrey, Heidi; Zinn, Kurt; Hoyt, Kenneth

11:12 AM–11:24 AM
Subharmonic Aided Pressure Estimation for Monitoring Interstitial Fluid Pressure in Tumors: In Vitro and In Vivo Proof of Concept
Halldorsdottir, Valgerdur*; Dave, Jaydev; Eisenbrey, John; Machado, Priscilla; Liu, Ji-Bin; Merton, Daniel; Forsberg, Flemming

11:24 AM–11:36 AM
Prostate Cancer Detection Using 3-Dimensional Vibration Sonoelastography: Ex Vivo and In Vivo Results
Castaneda, Benjamin*; Westesson, Karin; An, Liwei; Yao, Jorge; Baxter, Laurie; Joseph, Jean; Hoyt, Kenneth; Strang, John; Rubens, Deborah; Parker, Kevin

11:36 AM–11:48 AM
Prenatal Diagnosis of Congenital Vascular Rings: Sonographic Features and Perinatal Outcome in 81 Consecutive Cases
Li, Shengli; Luo, Guoyang*; Norwitz, Errol; Wang, Chenhong; Ouyang, Shuyuan; Wen, Huaxuan; Xia, Xun; Chen, Xiulan; Yao, Yuan

11:48 AM–12:00 PM
Arterial Mapping With Duplex Ultrasound: Diagnostic-Therapeutic Strategy in Patients With Critical Lower Limb Ischemia
Marti Mestre, Xavier*; Romera Villegas, Antoni; Vila Coll, Ramon; Cairols Castellote, Marc

12:00 PM–12:12 PM
Examining Vascular Permeability in Ultrasound-Induced Angiogenesis
Johnson, Chenara*; O’Brien, William Jr

12:12 PM–12:24 PM
Power Doppler Ultrasound Analysis of Tumor Vasculature Changes Due to Ultrasound-Mediated Microbubble Enhancement of Radiation
Kwok, Sheldon*; Lee, Justin; Giles, Anoja; Irdaji, Sara; Czarnota, Gregory
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<th>Time</th>
<th>Session Title</th>
<th>Abstract</th>
<th>Authors</th>
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<tr>
<td>11:00 AM–11:12 AM</td>
<td>The Disproportional Influences of Maternal Characteristics on Fetal Biometric Measurements</td>
<td>Canavan, Timothy</td>
<td>Canavan, Timothy</td>
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<td>11:12 AM–11:24 AM</td>
<td>Evaluating the Risk Association Between Low Pregnancy-Associated Plasma Protein A and Small for Gestational Age Birth Weight Using Customized Versus Population-Based Growth Curves</td>
<td>Goetzinger, Katherine*; Odibo, Anthony; Krantz, David</td>
<td>Goetzinger, Katherine*; Odibo, Anthony; Krantz, David</td>
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<tr>
<td>11:24 AM–11:36 AM</td>
<td>Prediction of Stillbirth: Better to Assess Growth Restriction With Traditional Ultrasound Curves or Growth Potential?</td>
<td>Smith, Nicole*; Bukowski, Radek; Zera, Chloe; Robinson, Julian</td>
<td>Smith, Nicole*; Bukowski, Radek; Zera, Chloe; Robinson, Julian</td>
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<tr>
<td>11:36 AM–11:48 AM</td>
<td>Discordant Twins: Does Gestational Age at Diagnosis of Abnormal Doppler Findings Affect Pregnancy Outcomes?</td>
<td>Wolfe, Lynlee*; Trivedi, Neha; Patel, Janki; Farrell, Meghan; Ramos, Gladys; Pretorius, Dolores; Schrimmer, David</td>
<td>Wolfe, Lynlee*; Trivedi, Neha; Patel, Janki; Farrell, Meghan; Ramos, Gladys; Pretorius, Dolores; Schrimmer, David</td>
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<td>11:48 AM–12:00 PM</td>
<td>Prenatal Diagnosis of an Abnormal Placental Cord Insertion Site and Correlation With Neonatal Outcomes in Twins</td>
<td>Farrell, Meghan*; Trivedi, Neha; Romaine, Lorene; Hwang, Misun; Schrimmer, David; Wan, Jennifer; Do, Patrick; LaCoursiere, Yvette; Hartney, Caitlin; Benirschke, Kurt; Pretorius, Dolores</td>
<td>Farrell, Meghan*; Trivedi, Neha; Romaine, Lorene; Hwang, Misun; Schrimmer, David; Wan, Jennifer; Do, Patrick; LaCoursiere, Yvette; Hartney, Caitlin; Benirschke, Kurt; Pretorius, Dolores</td>
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<td>12:00 PM–12:12 PM</td>
<td>Congenital Heart Defects in a Large, Unselected Cohort of Monochorionic Twins</td>
<td>Pettit, Kate*; Merchant, Maqdooda; Machin, Geoff; Norton, Mary</td>
<td>Pettit, Kate*; Merchant, Maqdooda; Machin, Geoff; Norton, Mary</td>
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<tr>
<td>12:12 PM–12:24 PM</td>
<td>Individualized Growth Assessment Program: Personalized Evaluation of Third-Trimester Growth Using Each Fetus as Its Own Control</td>
<td>Lee, Wesley*; Deter, Russell; Yeo, Lami; Romero, Roberto; Brewster, Jon</td>
<td>Lee, Wesley*; Deter, Russell; Yeo, Lami; Romero, Roberto; Brewster, Jon</td>
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<tr>
<td>12:24 PM–12:36 PM</td>
<td>Prototypic Software for Automated Fractional Limb Volume Measurements of the Fetus</td>
<td>Lee, Wesley*; Deter, Russell; Yeo, Lami; Romero, Roberto</td>
<td>Lee, Wesley*; Deter, Russell; Yeo, Lami; Romero, Roberto</td>
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Obstetric Ultrasound: General and Anomalies
Moderator: Michelle Russell, MD
Broadway Ballroom North • Sixth Floor
11:00 AM–11:12 AM
989341 With Advances in Ultrasound, Can We Avoid Fetal Lung Maturity Testing?
Stine, Michael; Stine, Jessica; Strassberg, Richard; Bedell, Joanna; Gualtieri, Marc; Cruz-Pachano, Francisco; Tudela, Felipe*

11:12 AM–11:24 AM
1004392 Identification of the Fetal Hippocampus and the Role of 3-Dimensional Ultrasound
Gindes, Liat*; Weissmann-Brenner, Alina; Weisz, Boaz; Zajicek, Michal; Tzadikevitch Geffen, Keren; Achiron, Reuven

11:24 AM–11:36 AM
1004385 Three-Dimensional Ultrasound Demonstration of the Fetal Anal Canal and Sphincter
Gindes, Liat*; Weissmann-Brenner, Alina; Weisz, Boaz; Tzadikevitch Geffen, Keren; Zajicek, Michal; Achiron, Reuven

11:36 AM–11:48 AM
989118 Utilization of Amniocentesis Among Singleton Births in the United States
Faro, Revital*; Santolaya, Joaquin; Wang, Bingbing; Canterino, Joseph; Ananth, Cande

11:48 AM–12:00 PM
989264 Accurate Prospective Fetal Diagnosis of Persistent Cloaca: Good and Bad News
Barnewolt, Carol; Dobson, Lori*; Estroff, Judy; Connolly, Susan; Buchmiller, Terry; Diamond, David; Boyd, Theonia; Morash, Donna; Zaccagnini, Linda; Borer, Joseph

12:00 PM–12:12 PM
989104 Prenatal Ultrasound Diagnosis of Joubert Syndrome: The Sonographic “Molar Tooth Sign”
Dolique, Maud*; Herve, Philippe; Burglen, Lydie; Paillet, Christain; Sembely, Catherine; Barthez, Marie; Perrotin, Franck; Toutain, Annick

12:12 PM–12:24 PM
989923 The Incidence of Anomalies in Fetuses With Cystic Hygroma and a Normal Karyotype
Durfee, Sara*; Iyer, Chitra; Heard, Asha; Panda, Britta; Coletta, Jaclyn; Scholl, Jessica; Al Ammari, Roa; Kaplan, Jeremy; Tanner, Cassandre; Benson, Carol
Sonography Practice Training
Moderator: James Pennington, RDMS
Majestic/Music Box • Sixth Floor

11:00 AM–11:12 AM
989905 Survey of Compact Ultrasound Donations and Training in Low-Resource Countries: Who, What, Where, When, and How (Are They Doing)?
Harris, Robert*; Cho, Joo

11:12 AM–11:24 AM
989137 Maternal-Fetal Medicine Fellowship Ultrasound Training: Results From a Fellowship Survey
Blumenfeld, Yair*, Ness, Amen; Platt, Lawrence

11:24 AM–11:36 AM
990617 The After Action Review: A Simple Process Improvement Method to Promote the Quality of Ultrasound-Guided Procedures
McNamara, M.*; McNamara, Meghan

11:36 AM–11:48 AM
989180 Maternal-Fetal Medicine Fellowship 3- and 4-Dimensional Ultrasound Training: Do We Need More?
Ness, Amen*; Blumenfeld, Yair; Platt, Lawrence

11:48 AM–12:00 PM
977355 Assessment of Efficacy in Performing Ultrasound-Guided Biopsy: Freehand Versus Guided Technique
Shabana, Wael*; Virmani, Vivek; Fernandes, Dellano; Antonescu, Raluca; Kielar, Ania

12:00 PM–12:12 PM
990682 Low Female-Male Birth Gender Ratios Become More Widespread in California as Keepsake Ultrasound Proliferates
Lin, G. Sharat

12:12 PM–12:24 PM
989327 Cost and Radiation Savings of Partial Substitution of Ultrasound for Computed Tomography in Appendicitis Evaluation: A National Projection
Parker, Laurence; Hoey, Courtney; Gingold, Eric; Frangos, Andrea; Nazarian, Levon*

12:30 PM–1:30 PM
Presidential Advisory Council Meeting
JW Marriott Suite • 43rd Floor
12:30 PM–1:30 PM
Lunch in the Exhibit Hall
Westside Ballroom • Fifth Floor

12:30 PM–1:30 PM
Scientific Poster Discussions
Posters will be located on the Fourth Floor in the following rooms:
Brecht • Wilder • Odets • O’Neill

1:00 PM–1:30 PM
Community of Practice Meeting
HFI High-Frequency Clinical and Preclinical Imaging
Majestic/Music Box • Sixth Floor

1:00 PM–3:00 PM
Three- and Four-Dimensional Volume Data Set Manipulation: General Abdominal
This session will be used to introduce laptop-based handling of 3-dimensional (3D) software and provide guided assistance to improve 3D ultrasound-based diagnostic skills.

Faculty:
GE Healthcare: Nirvikar Dahiya, MD, and Jennifer McDowell-Gibbs, RVT, RDMS, RT
Palace • Sixth Floor
Philips Healthcare: TBA
Royale • Sixth Floor
Siemens Medical Solutions: Wane Joselow, MD, and Ted Whitten, BA, RDMS, RVT
Winter Garden • Sixth Floor
1:30 PM–3:30 PM  
Categorical Courses

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

**Adnexal Masses**  
**Moderator: Arthur Fleischer, MD**  
**Broadway Ballroom North • Sixth Floor**

The objective of this course is to differentiate benign from malignant reproductive organ pathology versus nongynecologic pathology.

1:30 PM–2:10 PM  
What Are the Europeans doing?  
*Ilan Timor-Tritsch, MD*

2:10 PM–2:50 PM  
Can Computed Tomography and Magnetic Resonance Imaging Help?  
*Daniel Cornfeld, MD*

2:50 PM–3:30 PM  
Are Doppler Evaluations Still of Any Value?  
*Arthur Fleischer, MD*

**Basics of Transcranial Doppler Ultrasound (Adult Theme)**  
**Moderator: Tatjana Rundek, MD, PhD**  
**Manhattan Ballroom • Eighth Floor**

This course will serve as a hard-hitting foundational introduction to transcranial Doppler (TCD) ultrasound for those who might wonder what it is or be interested in considering adding TCD ultrasound to their laboratory. Topics will cover key anatomy, techniques (imaging and nonimaging), clinical application, basic interpretation, and billing and coding. This will complement the joint hands-on offering during which techniques can be practiced.

1:30 PM–2:00 PM  
Anatomy and Technique (Imaging and Nonimaging)  
*Eva Bartels, MD*

2:00 PM–2:30 PM  
Clinical Applications and Principles of Interpretation Based on Transcranial Doppler Ultrasound and Transcranial Color-Coded Doppler Ultrasound  
*Eva Bartels, MD*

2:30 PM–3:00 PM  
Clinical Case Examples  
*Zsolt Garami, MD*

3:00 PM–3:30 PM  
Billing, Coding, and Equipment for Transcranial Doppler Ultrasound  
*Charles Tegeler, MD*
Hands-on Renal Artery Doppler Ultrasound
Moderators: Diana Gaitini, MD, and Sharlene Teefey, MD
Empire Complex • Seventh Floor
This course will offer hands-on scanning of models with renal artery Doppler techniques, including tardus parvus and angle-corrected velocities.

1:30 PM–1:50 PM Techniques of Ultrasound
   Mani Montazemi, RDMS
1:50 PM–2:10 PM Interpretation and Pitfalls of Ultrasound
   Michelle Robbin, MD
2:10 PM–3:30 PM Hands-on Session
   Faculty: Shweta Bhatt, MD, Wui Chong, MD, M. Robert De Jong, RDCS, RDMS, RVT, Vikram Dogra, MD, Ercan Kocakoc, MD, Dean Nakamoto, MD, Deborah Rubens, MD, Leslie Scoutt, MD, and Sharlene Teefey, MD

Live Demonstration: How to Evaluate the Fetal Heart and First- and Second-Trimester 3- and 4-Dimensional Anatomy
Moderators: Jude Crino, MD, and Wesley Lee, MD
Broadway Ballroom South • Sixth Floor
The objective of this course is to have an expert specialist perform live scanning of the fetal heart offstage, with the audience watching a live video projection, discussing the protocol to be followed and the anatomic images obtained during the examination. This course will also show an expert performing live scanning of a second-trimester fetus offstage.

1:30 PM–2:00 PM Wesley Lee, MD
2:00 PM–2:30 PM Mark Sklansky, MD
2:30 PM–2:50 PM Beryl Benacerraf, MD
2:50 PM–3:10 PM Carole Gravino, RDMS
3:10 PM–3:30 PM Johannes Steinhard, MD
Multimodality High-Frequency Tissue Characterization

Moderator: Michael Kolios, PhD

Majestic/Music Box • Sixth Floor

This course is designed to review the use of mixed imaging modalities incorporating high-frequency ultrasound for tissue characterization purposes.

1:30 PM–2:10 PM Intravascular Ultrasound and Photoacoustic Imaging of Atherosclerotic Plaques
Stanislav Emelianov, PhD

2:10 PM–2:50 PM Optical Tomography With Ultrasound Localization for the Detection of Early-State Invasive Breast Cancers
Quing Zhu, PhD

2:50 PM–3:30 PM Intravascular Imaging With a Hybrid Ultrasound and Optical Imaging Catheter
Brian Courtney, MD, MSEE

New Techniques in Biopsy Combined With New Materials

Moderator: Wui Chong, MD

Marquis Ballroom A/B • Ninth Floor

This course is designed to introduce attendees to magnetic resonance and ultrasound fusion, computed tomographic and ultrasound fusion, and biplane imaging for biopsy and to discuss newer needles, catheters, and various kits and techniques that can be used.

1:30 PM–2:10 PM Fusion Imaging for Ultrasound-Guided Procedures
Hisham Tchelepi, MD

2:10 PM–2:50 PM How to Do Ultrasound-Guided Procedures: Protocols, Preparation, Equipment, and Follow-up
Corinne Deurdulian, MD

2:50 PM–3:30 PM When to Choose an Ultrasound Procedure
David Madoff, MD
Peripheral Arterial Disease/Chronic Venous Disease
Moderator: John Blebea, MD
Shubert Complex • Sixth Floor

The objective of this course is to discuss the use of noninvasive tests in peripheral arterial disease, including the role of the ankle-brachial index, pulse volume recording, and duplex sonography. The discussion will include deep venous thrombosis and reflux.

1:30 PM–2:00 PM  Ankle-Brachial Index and Pulse Volume Recording
George Berdejo, BA, RVT

2:00 PM–2:30 PM  Doppler Ultrasound of Peripheral Arteries
William Zang, RDMS, RVT

2:30 PM–3:00 PM  Computed Tomographic Angiography and Magnetic Resonance Angiography
Hamid Mojibian, MD

3:00 PM–3:30 PM  Noninvasive Follow-up Following Lower Extremity Interventions
Anil Hingoranin, MD

Phase Aberration and Harmonic Imaging
Moderators: Gregg Trahey, PhD, and Robert Waag, PhD
Marquis Ballroom C • Ninth Floor

Participants will have the opportunity to learn about the impact of phase aberration on clinical imaging and to understand methods designed to overcome associated problems, including harmonic imaging.

1:30 PM–2:15 PM  The Contributions of Phase Aberration and Clutter in Fundamental and Harmonic Imaging
Jeremy Dahl, MD

2:15 PM–3:00 PM  Aberration Estimation and Correction in Ultrasound Imaging
Jason Tillett, PhD

3:00 PM–3:30 PM  Panel Discussion
Jeremy Dahl, MD, Jason Tillett, PhD, Gregg Trahey, PhD, and Robert Waag, PhD
Therapeutic Ultrasound: From Subtle Effects to Tissue Ablation

Moderator: J. Brian Fowlkes, PhD
Astor Ballroom • Seventh Floor

This course will examine the extremes in therapeutic ultrasound in clinical applications. Ultrasound can be used over a range of intensities for gentle assistance that has been shown to be effective in drug delivery to the ablation of tissue such as that provided by high-intensity focused ultrasound. Presentations will examine examples of the instrumentation and clinical applications that span the range of ultrasound intensities and the practical issues in the design of safety for both equipment and clinical use.

1:30 PM–2:00 PM You, Your Patient, and Therapeutic Ultrasound
George Lewis Jr, PhD

2:00 PM–2:30 PM Clinical Talk on Low-Intensity Ultrasound for Drug Delivery
Ralph Ortiz, MD

2:30 PM–3:00 PM Design and Development of Magnetic Resonance–High-Intensity Focused Ultrasound Clinical Systems
Sham Sokka, PhD

3:00 PM–3:30 PM Focused Ultrasound: Clinical Indications and Training
Joo Hwang, MD, PhD

3:30 PM–4:30 PM Refreshment Break in the Exhibit Hall
Westside Ballroom • Fifth Floor
**3:30 PM–4:30 PM**

**Community of Practice Meetings**

- **G&A General and Abdominal Ultrasound**
  Shubert Complex • Sixth Floor

- **NEURO Neurosonology**
  Manhattan Ballroom • Eighth Floor

- **OB Obstetric Ultrasound**
  Broadway Ballroom South • Sixth Floor

- **THERA Therapeutic Ultrasound**
  Astor Ballroom • Seventh Floor

**3:30 PM–5:30 PM**

**Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology**

This session will be used to introduce laptop-based handling of 3-dimensional (3D) software and provide guided assistance to improve 3D ultrasound-based diagnostic skills.

**Faculty:**

- **GE Healthcare:** Sharon Horton, RT, RDMS, and Ilan Timor-Tritsch, MD
  Palace • Sixth Floor

- **Philips Healthcare:** William Brown III, MD, and Elise Housman, RDMS
  Royale • Sixth Floor

- **Siemens Medical Solutions:** Maria Hidvegi, and Johannes Steinhard, MD
  Winter Garden • Sixth Floor

**4:30 PM–5:30 PM**

**Endowment for Education and Research Committee Meeting**

Jolson • Ninth Floor
**4:30 PM–5:30 PM**

**Scientific Sessions**

Five concurrent sessions, each including 5 presentations on the latest ultrasound research, are offered during this period. *indicates presenter.

**BSI**  
**Basic Science: Image Processing and Analysis**

*Moderators: Michael Kolios, PhD, and Tomy Varghese, PhD*

**Marquis Ballroom C**

4:30 PM–4:42 PM  
**989972**  
**Ultrasound B-Mode Image Segmentation and Classification Using Texture Features**  
*Chen, Gang*; *O'Brien, William Jr; Oelze, Michael; Simpson, Douglas*

4:42 PM–4:54 PM  
**990601**  
**Breast Microcalcification Detection With Synthetic Aperture Ultrasound and Wave Equation Migration Imaging**  
*Huang, Lianjie*

4:54 PM–5:06 PM  
**989647**  
**Development of a Practical Nonlinear Imaging Technique for Transcranial Visualization of Blood Vessels**  
*Sadler, Jeffrey*; *Malyarenko, Eugene; Maev, Roman*

5:06 PM–5:18 PM  
**990450**  
**Effects of Sound Speed Mismatch on Ultrasound Attenuation Measurements**  
*Nam, Kibo*; *Madsen, Ernest; Zagzebski, James; Hall, Timothy*

5:18 PM–5:30 PM  
**976168**  
**Carotid Artery Recognition System: Validation and Benchmarking of 3 Different Automated Techniques on a Multi-Institutional Database**  
*Molinari, Filippo*; *Meiburger, Kristen; Zeng, Guang; Shandilya, Deepak; Zhao, Shuangren; Tallapally, Niranjan; Acharya, Rajendra; Liboni, William; Nicolaides, Andrew; Suri, Jasjit*
Gynecologic Ultrasound 1
Moderator: Jodi Lerner, MD
Broadway Ballroom South • Sixth Floor
4:30 PM–4:42 PM
939528 The Oncogenic Potential of Endometrial Polyps: A Systematic Review and Meta-Analysis
Lee, Stephanie; Kaunitz, Andrew*; Sanchez-Ramos, Luis; Rhatigan, Ronald

4:42 PM–4:54 PM
970741 A Prospective Study to Evaluate the Costs, Accuracy, Risks, and Benefits of 3-Dimensional Ultrasound Compared to Hysterosalpingography in Women With Uterine Abnormalities
Bocca, Silvina*; Abuhamad, Alfred; Oehninger, Sergio; Stadtmauer, Laurel; Agard, Jennifer; Duran, Hakan; Sarhan, Abbaa; Horton, Sharon

4:54 PM–5:06 PM
978325 Postmenopausal Endometrial Thickness: A Prospective Study of 1500 Consecutive Asymptomatic Postmenopausal Women—Also, How Many May Have Endometrial Polyps?
Hartman, Alex*; Wolfman, Wendy; Hartman, Jason; Lee, Rose

5:06 PM–5:18 PM
978894 Sonohysterography Versus Transvaginal Ultrasound: A Prospective Blinded Study of 1000 Consecutive Patients With Polyps
Hartman, Alex*; Frei, Julia; Hartman, Jason

5:18 PM–5:30 PM
981597 Natural History of Endometrial Polyps: Prospective Study of 300 Consecutive Patients With Follow-up of Endometrial Polyps by Sonohysterography
Hartman, Alex*; Wolfman, Wendy; Hartman, Jason; Frei, Julia
High-Frequency Ultrasound: Clinical and Preclinical
Moderator: Michael Oelze, PhD
Shubert • Sixth Floor

4:30 PM–4:42 PM
986038 Enhanced Imaging of the Vitreous Body Using a 20-MHz Annular Array
Silverman, Ronald*; Ketterling, Jeffrey; Mamou, Jonathan; Lloyd, Harriet; Coleman, D.

4:42 PM–4:54 PM
986848 Determination of Corneal Elasticity Using Acoustic Radiation Force
Urs, Raksha*; Lloyd, Harriet; Wen, Quan; Paik, David; Ketterling, Jeffrey; Silverman, Ronald

4:54 PM–5:06 PM
977941 Three-Dimensional High-Frequency Quantitative Ultrasound for Detecting Metastases in Lymph Nodes of Breast Cancer Patients
Saegusa-Beecroft, Emi*; Mamou, Jonathan; Hata, Masaki; Coron, Alain; Machi, Junji; Laugier, Pascal; Yanagihara, Eugene; Feleppa, Ernest

5:06 PM–5:18 PM
990236 Ultrasound Elasticity Imaging Can Differentiate Acute Intestinal Inflammation and Chronic Intestinal Fibrosis From Normal Bowel in Rat Models
Rubin, Jonathan*; Stidham, Ryan; Xu, Jingping; Johnson, Laura; Moons, David; Higgins, Peter; Kim, Kang

5:18 PM–5:30 PM
992521 Investigating the Effects of the Intensity Threshold on High-Frequency 3-Dimensional Power Doppler Ultrasound
El Kaffas, Ahmed; Kwok, Sheldon*; Giles, Anoja; Czarnota, Gregory
**Therapeutic Ultrasound**

**Moderator: Thomas Szabo, PhD**

**Majestic/Music Box • Sixth Floor**

4:30 PM–4:42 PM  
988310  
**Effect of Density, Exposure Time, and Scan Direction on the Size of an Ultrasound Histotripsy Lesion**  
Xu, Jin*; Bigelow, Timothy

4:42 PM–4:54 PM  
989671  
**Spatial Control and Acceleration of Ultrasound Thermal Therapy Using Acoustic Droplet Vaporization**  
Zhang, Man*; Fabiilli, Mario; Carson, Paul; Padilla, Frederic; Swanson, Scott; Kripfgans, Oliver; Fowlkes, J. Brian

4:54 PM–5:06 PM  
992476  
**Microbubble and Ultrasound Enhancement of Radiation-Induced Tumor Cell Death In Vivo**  
Czarnota, Gregory*; Karshafian, Raffi; Giles, Anoja; Iradji, Sara; Wong, Emily; Al Mahrouki, Azza

5:06 PM–5:18 PM  
978260  
**Ultrasound-Guided Percutaneous Microwave Ablation for Renal Tumors**  
Liang, Ping*; Yu, Xiaoling; Feng, Bing; Cheng, Zhigang; Han, Zhiyu; Yu, Jie

5:18 PM–5:30 PM  
**Questions and Answers**
G&A  Thyroid and Ultrasound-Guided Procedures
Moderator: Deborah Rubens, MD
Broadway Ballroom North • Sixth Floor

4:30 PM–4:42 PM
903884  Clinical Usefulness of Contrast-Enhanced Ultrasound and Elastography for Estimation of the Extent of an Ablated Area in Thyroid Radio Frequency Ablation
Fukunari, Nobuhiro

4:42 PM–4:54 PM
991110  Mitigating Pain During Ultrasound-Guided Procedures: Technical and Psychological Techniques and Tips
McNamara, M. *; McNamara, Meghan

4:54 PM–5:06 PM
987732  How Can New Ultrasound Techniques That Enhance Visualization of Calcification/Microcalcification-Like Echogenic Foci Influence the Ultrasound Evaluation of Thyroid Nodules?
Slapa, Rafal *; Jakubowski, Wieslaw; Slowinska-Szrednicka, Jadwiga; Bierca, Jacek; Szopinski, Kazimierz

5:06 PM–5:18 PM
988549  Significance of the Comet Tail Artifact and Posterior Acoustic Shadowing Associated With Echogenic Foci in Thyroid Nodule Assessment
Jung, Alexander *; Romero, Miriam; Ye, Wei; Hirschbein, Jonah; Martin, Sue; Singer, Peter; Grant, Edward

5:18 PM–5:30 PM
989308  Efficiency of Second-Generation Ultrasound Elastography in Characterization of Thyroid Lesions
Yarmohammadi, Hooman *; Young, Jason; Nakamoto, Dean; Azar, Nami
4:30 PM–5:30 PM

**Just Images Sessions**

- **OB**
  Three- and Four-Dimensional Normal and Abnormal Obstetric Ultrasound
  
  *Moderator: Isabelle Wilkins, MD*
  
  *Astor Ballroom • Seventh Floor*
  
  *Faculty: Bozena Dudka, RDMS, Lauren Ferrara, MD, Melody Ann Hamrick, RDMS, and Wesley Lee, MD*
  
  This session will present cases of normal and abnormal obstetric ultrasound utilizing 3- and 4-dimensional imaging modalities.

- **IVIO**
  Interesting Cases
  
  *Moderator: Dean Nakamoto, MD*
  
  *Marquis Ballroom A/B • Ninth Floor*
  
  *Faculty: Dean Nakamoto, MD, and Wael Saad, MD*
  
  Complications and pitfalls of the biopsy technique will be shown in this session.

7:00 PM–11:00 PM

**Leadership Banquet**

*Manhattan Ballroom • Eighth Floor*

*(by invitation only)*

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www.aium.org
Sunday, April 17
Convention

Schedule at a Glance

7:00 AM–5:00 PM  Registration Open

7:15 AM–8:00 AM  Journal of Ultrasound in Medicine Editorial Board Meeting
(by invitation only)

8:00 AM–10:00 AM  Categorical Courses

8:00 AM–12:30 PM  Musculoskeletal Hands-on Workshop

8:15 AM–9:15 AM  Exhibit Advisory Council Meeting

8:30 AM–10:30 AM  Ultrasound Practice Accreditation Council Meeting

10:00 AM–11:00 AM  Refreshment Break in the Exhibit Hall

10:00 AM–11:00 AM  Community of Practice Meetings

11:00 AM–12:30 PM  Scientific Sessions

11:00 AM–12:30 PM  Just Images Sessions

12:30 PM–1:30 PM  Scientific Poster Discussions

12:30 PM–1:30 PM  Lunch in the Exhibit Hall

12:30 PM–1:30 PM  Community of Practice Council Meeting

1:30 PM–3:30 PM  Categorical Courses

2:30 PM–5:00 PM  Executive Committee Meeting

3:45 PM–5:00 PM  Scientific Sessions

3:45 PM–5:00 PM  Just Images Session

5:15 PM  AIUM Business Meeting
Additional CME Opportunities Available Through the AIUM

2011 Postgraduate Courses

**Hands-on Diagnostic and Interventional Musculoskeletal Ultrasound in the Upper Limb: State of the Art**
July 7–9, 2011 • Mayo Clinic • Rochester, Minnesota
Course Chair: Jay Smith, MD

**Point-of-Care Ultrasound: Emergency, Critical Care, Anesthesiology, and Beyond—A Comprehensive Didactic and Hands-on Course for All Clinicians Involved in Treating Acutely Ill Patients**
August 5–7, 2011 • Caesars Palace • Las Vegas, Nevada
Course Chair: Michael Blaivas, MD

**Gynecologic Ultrasound: A Practical Approach to Problem Solving**
November 4–5, 2011 • Boston Long Wharf Marriott Hotel • Boston, Massachusetts
Course Chair: Beryl Benacerraf, MD

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Journal of Ultrasound in Medicine Editorial Board Meeting
Cantor/Jolson • Ninth Floor
(by invitation only)

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

G&A
Abdominal Doppler Ultrasound
Moderators: Vikram Dogra, MD, and Franklin Tessler, MD, CM
Marquis Ballroom A/B • Ninth Floor
This course will cover the role of Doppler ultrasound in evaluation of renal pathology and renal artery obstruction. Controversial topics such as the value of the resistive index and ureteric jets for diagnosis of urinary obstruction will be discussed. Other topics will include Doppler evaluation in cirrhosis and portal hypertension, Doppler evaluation of transjugular intrahepatic portosystemic shunt patency, when to use Doppler ultrasound in the urinary tract, Doppler evaluation of the aorta and mesenteric vessels, and ultrasound screening for abdominal aortic aneurysms.

8:00 AM–8:30 AM  Doppler Evaluation of Cirrhosis
Paul Sidhu, BSc, MRCP, KCRP

8:30 AM–9:00 AM  Doppler Evaluation of Renal Vascular Disease
Mark Lockhart, MD, MPH

9:00 AM–9:30 AM  Ultrasound of the Aorta
Deborah Rubens, MD

9:30 AM–10:00 AM  Doppler Evaluation of Transjugular Intrahepatic Portosystemic Shunts
Sharlene Teefey, MD
**Advanced Breast Imaging**

*Moderators: Michael Andre, PhD, and Paul Carson, PhD*

*Marquis Ballroom C • Ninth Floor*

This course is designed to discuss advanced methods for imaging breast masses. The topics of discussion will include fusion of ultrasound with x-ray mammography and optical imaging, breast density assessment with ultrasound, ultrasound computer-aided diagnosis, and acoustic radiation force impulse imaging.

- **8:00 AM–8:24 AM** Quantitative 3-Dimensional Whole-Breast Imaging With Transmission and Reflection Ultrasound  
  *Michael Andre, PhD*

- **8:24 AM–8:48 AM** Combined Pulse Echo, X-ray Tomosynthetic, Photoacoustic, and Speed of Sound Imaging in the Mammographic Geometry  
  *Paul Carson, PhD*

- **8:48 AM–9:12 AM** Automated Breast Sonographic Coronal Imaging: Diagnostic and Potential Screening Applications  
  *Beverly Hashimoto, MD*

- **9:12 AM–9:36 AM** Physical Principles for the Best Recognition of Breast Cancer by Ultrasound  
  *Kevin Kelly, MD*

- **9:36 AM–10:00 AM** Ultrasound Tomography and Breast Imaging  
  *Peter Littrup, MD*

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**Fetal Diagnosis With Neonatal Correlation**

*Moderators: Joshua Copel, MD, and Charles Kleinman, MD*

*Broadway Ballroom North • Sixth Floor*

The objective of this course is to review fetal cardiac diagnoses specifically focusing on diagnosing fetal congenital heart disease and preparing for postnatal pediatric cardiology follow-up. Topics discussed will include heart failure, cyanotic cardiac disease, complex cardiac disease, and extracardiac disease.

- **8:00 AM–8:30 AM** Cardiac Disease/Heart Failure  
  *Anita Moon-Grady, MD*

- **8:30 AM–9:00 AM** Cardiac Disease/Cyanotic  
  *Miwa Geiger, MD*

- **9:00 AM–9:30 AM** Cardiac Disease/Complex  
  *Gary Satou, MD*

- **9:30 AM–10:00 AM** Extracardiac Disease  
  *Jay Pruetz, MD*
**Molecular Imaging**

*Moderator: Ronald Silverman, PhD*

**Majestic/Music Box • Sixth Floor**

The objective of this course is to review the state of the art in high-frequency molecular imaging.

8:00 AM–8:40 AM  
Ultrasound-Based Molecular Imaging of Cancer  
*Stanislav Emelianov, PhD*

8:40 AM–9:20 AM  
Molecular Sonographic Imaging of Tumor Angiogenesis  
*Andrej Lyshchik, MD, PhD*

9:20 AM–10:00 AM  
Novel Transgenic Mice for Multimodality Imaging of Angiogenesis  
*Daniel Turnbull, PhD*

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**Nonfetal Obstetric Ultrasound: Cervix, Placenta, and the Transperineal Approach**

*Moderator: Dolores Pretorius, MD*

**Broadway Ballroom South • Sixth Floor**

This course will review ultrasound evaluation of the cervix and placenta and will also include transperineal ultrasound as a modality for evaluation during pregnancy.

8:00 AM–8:30 AM  
The Cervix  
*Harris Finberg, MD*

8:30 AM–9:00 AM  
Placenta Accreta  
*Gladys Ramos, MD, and Jerasimos Ballas, MD, MPH*

9:00 AM–9:30 AM  
Umbilical Cord: What You Must Know  
*Dolores Pretorius, MD*

9:30 AM–10:00 AM  
Acute Maternal Diseases in Pregnancy  
*Sherelle Laifer-Narin, MD*
**Pediatric Musculoskeletal Sonography**

*Moderator: Henrietta Rosenberg, MD*

**Shubert Complex • Sixth Floor**

The objective of this course is to discuss pediatric applications of musculoskeletal sonography, including evaluation of traumatic injuries, arthritis, developmental hip dysplasia, vascular anomalies, and tumors.

- **8:00 AM–8:30 AM** Developmental Dysplasia of the Hip  
  *Henrietta Rosenberg, MD*

- **8:30 AM–9:00 AM** Soft Tissue Vascular Anomalies and Tumors  
  *Harriet Paltiel, MD*

- **9:00 AM–9:30 AM** Musculoskeletal Trauma and Arthritis in Children  
  *Michael Callahan, MD*

- **9:30 AM–10:00 AM** Groin Pain in the Skeletally Immature Athlete  
  *Marnix Van Holsbeeck, MD*

**Point-of-Care Ultrasound of the Head and Neck**

* Moderator: Bret Nelson, MD*

**Manhattan Ballroom • Eighth Floor**

This course will discuss point-of-care evaluation of acute ocular injury and disease, neck pathology and injury, and general traumatic injury to the head and face. Both diagnostic and interventional/therapeutic applications will be discussed, with a focus on rapid bedside ultrasound application and its integration into ongoing care and imaging.

- **8:00 AM–8:45 AM** Point-of-Care Ultrasound Evaluation of Ocular Pathology  
  *Richard Calderon, OD*

- **8:45 AM–9:30 AM** Head and Neck Ultrasound Applications in the Critical Care Patient  
  *Christian Butcher, MD*

- **9:30 AM–10:00 AM** Ear, Nose, and Throat Ultrasound Applications in the Emergency Patient  
  *Srikar Adhikari, MD*
Pregnancies of Unknown Locations (PULs) and Beyond
Moderator: Steven Goldstein, MD
Astor Ballroom • Seventh Floor

The objective of this course is to teach the attendee how to judiciously use clinical, biochemical, and sonographic resources to reduce the time to a final diagnosis as well as the cost of the tests.

8:00 AM–9:00 AM  Pregnancy of Unknown Location  
Steven Goldstein, MD

9:00 AM–10:00 AM  Advantages and Lawsuits of Methotrexate  
James Shwayder, MD, JD

Thyroid/Parathyroid and Cervical Biopsies
Moderator: Wui Chong, MD
Soho/Herald • Seventh Floor

The objective of this course is to introduce the indications and techniques of these biopsies and how to avoid the pitfalls.

8:00 AM–8:40 AM  Ultrasound-Guided Biopsy of Thyroid, Parathyroid, and Cervical Biopsies  
Diana Gaitini, MD

8:40 AM–9:20 AM  Ultrasound-Guided Fine-Needle Aspiration Biopsy of Thyroid Nodules  
Monzar Abu-Yousef, MD, BCh, ABR

9:20 AM–10:00 AM  Pre-Biopsy Preparation  
Corinne Deurdulian, MD
Hands-on Workshop—Musculoskeletal Ultrasound: Shoulder, Hand, and Wrist

Moderator: Kenneth Lee, MD
Empire Complex • Seventh Floor

Faculty: Seerat Aziz, MD, J. Antonio Bouffard, MD, Etienne Cardinal, MD, David Fessell, MD, Victor Flores, MD, Jon Jacobson, MD, Kenneth Lee, MD, William Medford, RDMS, Levon Nazarian, MD, Humberto Rosas, MD, Gregory Saboeiro, MD, Jay Smith, MD, and Colin Strickland, MD

This session will cover the less often discussed joint area from a viewpoint of sports medicine, orthopedics, physical medicine and rehabilitation, rheumatology, and radiology.

Committee Meetings

8:15 AM–10:30 AM

8:15 AM–9:15 AM
Exhibit Advisory Council
Ziegfeld • Fourth Floor

8:30 AM–10:30 AM
Ultrasound Practice Accreditation Council
Barrymore • Ninth Floor

Refreshment Break in the Exhibit Hall

10:00 AM–11:00 AM
Westside Ballroom • Fifth Floor

Community of Practice Meetings

10:00 AM–11:00 AM

BSI Basic Science and Instrumentation
Marquis Ballroom C • Ninth Floor

IVIO Interventional-Intraoperative Ultrasound
Soho/Herald • Seventh Floor

PEDS Pediatric Ultrasound
Shubert Complex • Sixth Floor
11:00 AM–12:30 PM
Scientific Sessions

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

**Basic Science: Tissue Characterization 2**
Moderators: Peter Lewin, MSc, PhD, and James Miller, MS, PhD
Marquis Ballroom C

11:00 AM–11:12 AM
978052 Wavelet-Based Analyses of Myocardial Backscatter Provide Assessment of Myocardial Fiber Orientation
Holland, Mark*; Hoffman, Joseph; Johnson, Benjamin; Miller, James; Singh, Gautam

11:12 AM–11:24 AM
989783 Simultaneous Imaging of Cardiovascular Wall Motion and Flow Velocity in the Heart and Vessels of Mice In Vivo
Luo, Jianwen*; Konofagou, Elisa

11:24 AM–11:36 AM
980723 Ultrasound Saline-Infused Sonohysterography-Based In Vivo Strain Imaging of Uterine Masses
Varghese, Tomy*; Omari, Eenas; Kliewer, Mark

11:36 AM–11:48 AM
987359 High-Frequency Ultrasound and Optical Coherence Tomographic Imaging of Cell Death
Farhat, Golnaz*; Yang, Victor; Kolios, Michael; Czarnota, Gregory

11:48 AM–12:00 PM
974979 Shear Wave Velocity Estimation and Boundary Delineation of Thermal Ablation Zones Using Transient Electrode Vibrations
DeWall, Ryan; Varghese, Tomy*; Madsen, Ernest

12:00 PM–12:12 PM
984175 Acoustoelastographic Stiffness and Strain Reflect Tendon Tearing
Frisch, Kayt*; Marcu, Dave; Lee, Kenneth; Baer, Geoff; Thelen, Darryl; Vanderby, Ray

12:12 PM–12:24 PM
990499 Pre–Beam Former Texture Orientation Metric for Speed of Sound Estimations
AlSadah, Jihad*; Zagzebski, James; Hall, Timothy
Emergency and Critical Care Ultrasound

**Moderator:** Betty Chang, MD, RDMS

Astor Ballroom • Seventh Floor

**11:00 AM–11:12 AM**

932503  
Time Commitment of Emergency Physicians Serving as Emergency Ultrasound Directors in United States Emergency Departments

Schofer, Joel*; Bauman, Michael; Nomura, Jason; Schmier, Charles; Hyde, Robert; Reed, James; Hoon, Cynthia; Bollinger, Melissa; Sierzenski, Paul

**11:12 AM–11:24 AM**

932515  
Past Use, Present Proficiency, and Future Utility of Point-of-Care Ultrasound in the Operational Environment: A Survey of Navy Health Care Providers in the United States

Schofer, Joel*; Nomura, Jason; Bauman, Michael; Cook, David; Powell, John; Reed, James; Hoon, Cynthia; Bollinger, Melissa; Sierzenski, Paul

**11:24 AM–11:36 AM**

990390  
A Prospective Comparison of a Hematoma Block and a Novel Ultrasound-Guided Fracture Block for Colles Reduction

Blaivas, Michael

**11:36 AM–11:48 AM**

989714  
Are Multiple Imaging Studies Needed to Diagnose Emergent Pelvic Pathology?

Buescher, Elizabeth*; Figueroa, Reinaldo; Budorick, Nancy

**11:48 AM–12:00 PM**

989850  
Estimating Pleural Fluid Volume in a Cadaver Model

Ferre, Robinson*; Pitotti, Chris; Pitotti, Rebecca; Lotterman, Seth

**12:00 PM–12:12 PM**

978956  
Sonographic Measurement of Optic Nerve Sheath Diameter and Correlation With Intracranial Pressure

Schoenfeld, Elizabeth*; Marshall, Amber; Ford, Deanna; Merchant, Azher; Stein, Deborah; Maulucci, Christopher; Euerle, Brian

**12:12 PM–12:24 PM**

990124  
A Dramatic U-Turn: Effect of Prospective Use of Bedside Ultrasound in the Undifferentiated Hypotensive Patient on Physician Differential Diagnosis

Shokoohi, Hamid*; Boniface, Keith; Pourmand, Ali
Gynecologic Ultrasound 2
Moderator: James Shwayder, MD, JD
Manhattan Ballroom • Eighth Floor

11:00 AM–11:12 AM
991003 Endometrial Morphology and Modulation of Hormone Receptors During Ovarian Stimulation for Assisted Reproductive Technology Cycles
Detti, Laura*; Saed, Ghassan; Fletcher, Nicole; Kruger, Michael; Brossoit, Michelle; Diamond, Michael

11:12 AM–11:24 AM
989558 Coronal Plane of the Multiplanar Mode of 3-Dimensional Transvaginal Sonography in the Diagnosis of Adenomyosis: A Novel Diagnostic Feature
Ahmed, Ahmed*; Abdel Naby, Mahmoud

11:24 AM–11:36 AM
988545 Sonographic Features of Responsive Versus Nonresponsive Ectopic pregnancies: A Case Series
Desai, Aditi*; Jongeward, Kathryn; New, Melinda; Andreotti, Rochelle; Fleischer, Arthur

11:36 AM–11:48 AM
987059 Prevalence of Renal Anomalies in Women With Müllerian Duct Anomalies Diagnosed by 3-Dimensional Sonohysterography
Gunn, Beth*; Hartman, Alex; Moody, Joel; Shapiro, Heather

11:48 AM–12:00 PM
980699 Three- and Four-Dimensional Ultrasound-Guided Embryo Transfer Targeting the Maximal Implantation Potential Point Increases Pregnancy Rates and Reduces Complications
Gergely, Robert

12:00 PM–12:12 PM
926706 Three-Dimensional Doppler Imaging of a Placental Site Tumor in a Bicornuate Uterus
Gerber, Susan*; Julien, Svena; Cohen, Leeber

12:12 PM–12:24 PM
978958 Sonohysterography: An Adjunct Investigation to Evaluate Chronic Pelvic Pain
Hartman, Alex*; Hartman, Brian
Obstetric Ultrasound: Anomalies
Moderators: Janice Byrne, MD, and Joan Mastrobatista, MD
Broadway Ballroom North • Sixth Floor

11:00 AM–11:12 AM
990532 Fetal Stomach Orientation: A Tip-off for the Diagnosis of a Congenital Diaphragmatic Hernia
Carreno, Carlos*; Schumacher, Vicki; Mastrobatista, Joan

11:12 AM–11:24 AM
990715 Three-Dimensional Imaging of the Falx Cerebri in Progressive Fetal Hydrocephalus
Jackson, David

11:24 AM–11:36 AM
990769 Neonatal Continuum of Fetal Cardiac Abnormalities Encountered in Rural Perinatal Consultation
Jackson, David

11:36 AM–11:48 AM
990202 Most Common Fetal Tumors: Review of 31 Cases
Sinkovskaya, Elena*; Berkley, Eliza; Horton, Sharon; Tice, Kathryn; Sclater, Annette; Abuhamad, Alfred

11:48 AM–12:00 PM
988125 Diagnosis of Fetal Limb Abnormalities Prior to 15 Weeks: Cause for Concern
Rice, Katherine*; Lai, Edgar; Ballas, Jerasimos; Hartney, Caitlin; Romine, Lorene; Jones, Marilyn; Pretorius, Dolores

12:00 PM–12:12 PM
990511 Comparison of Prenatal and Neonatal Genitourinary Tract Diagnoses in a Single Center
Shamshirsaz, Alireza; Leftwich, Heidi; Sadowski, Allison; Ravangard, Samadh*; Prabulos, Anne-Marie; Campbell, Winston; Makari, John; Ferret, Fernando; Herbst, Katherine; Egan, James

12:12 PM–12:24 PM
990432 The Use of Second- and Third-Trimester Fetal Renal Pelvis Anteroposterior Diameter Cutoffs in Isolated Hydronephrosis to Predict Postnatal Surgery
Shamshirsaz, Alireza; Leftwich, Heidi; Sadowski, Allison; Prabulos, Anne-Marie; Campbell, Winston; Makari, John; Ferret, Fernando; Herbst, Katherine; Egan, James; Ravangard, Samadh*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 AM–11:12 AM</td>
<td>Development of a Fetal Risk Assessment Score</td>
<td>Ott, William</td>
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<tr>
<td>11:12 AM–11:24 AM</td>
<td>Fetal Penile Length and Width</td>
<td>Danon, David*; Ben Shitrit, Gadi; Mashiach, Reuven; Bardin, Ron; Vardimon, David; Meizner, Israel</td>
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<tr>
<td>11:24 AM–11:36 AM</td>
<td>Redistribution of Fetal Blood Flow in Response to an Acute Fever Episode During Pregnancy</td>
<td>Arbeille, Philippe*; Carles, Gabriel</td>
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<tr>
<td>11:36 AM–11:48 AM</td>
<td>Fetal Cardiac Axis Measurement as a Potential Screening Tool for Early Detection of Congenital Heart Defects</td>
<td>Sinkovskaya, Elena*; Horton, Sharon; Berkley, Eliza; Abuhamad, Alfred</td>
</tr>
<tr>
<td>11:48 AM–12:00 PM</td>
<td>xMatrix Array and Mechanical 4-Dimensional Volume Transducers for Standardized Views of the Fetal Heart Using an Automated Algorithm</td>
<td>Espinoza, Jimmy*; Lee, Wesley</td>
</tr>
<tr>
<td>12:00 PM–12:12 PM</td>
<td>Imaging the Fetal Septum Pellucidum at 16 to 34 Weeks' Gestation</td>
<td>Jackson, David</td>
</tr>
<tr>
<td>12:12 PM–12:24 PM</td>
<td>Paternal Age in the Decision-Making Process for Amniocentesis</td>
<td>Faro, Revital*; Santolaya, Joaquin; Wang, Bingbing; Ananth, Cande</td>
</tr>
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</table>
11:00 AM–12:30 PM

**Just Images Sessions**

**PEDS**

**Challenging Pediatric Cases**

*Moderator: Harris L. Cohen, MD*

Marquis Ballroom A/B • Ninth Floor

*Faculty: Harris L. Cohen, MD, Kassa Darge, MD, PhD, Martha Munden, MD, and Valerie Ward, MD*

This session will present a number of thought-provoking pediatric ultrasound cases, which will include examples from the neurologic, musculoskeletal, chest, gastrointestinal, genitourinary, and vascular systems.

**GYN**

**Instructive Gynecologic Ultrasound Cases**

*Moderator: Jodi Lerner, MD*

Broadway Ballroom South • Sixth Floor

*Faculty: Beryl Benacerraf, MD, Steven Goldstein, MD, and Jodi Lerner, MD*

This session is designed to review selected gynecologic ultrasound cases.

12:30 PM–1:30 PM

**Community of Practice Committee Meeting**

Cantor/Jolson • Ninth Floor

12:30 PM–1:30 PM

**Lunch in the Exhibit Hall**

Westside Ballroom • Fifth Floor

12:30 PM–1:30 PM

**Scientific Poster Discussions**

Posters will be located on the Fourth Floor in the following rooms:

Brecht • Wilder • Odets • O’Neill
**1:30 PM–3:30 PM**

**Categorical Courses**

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

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**ERCC**

**Acute Presentation of Extremity Pathology: Bumps, Bruises, Fractures, and Rupture—State-of-the-Art Ultrasound Applications in Emergent Musculoskeletal Conditions**

*Moderator: Leslie Scoutt, MD*

*Soho/Herald • Seventh Floor*

This course will take a clinical approach to evaluation of undifferentiated extremity pain and injury. It will focus on vascular, cutaneous, muscular, and tendon pathology and injury as they present in the emergency and critical care settings. A special focus will be placed on clinical mimickers that may lead to incorrect diagnosis without ultrasound imaging. A discussion of the current data and protocols will be included.

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**1:30 PM–2:00 PM**

Ultrasound In Acute Extremity Trauma

*Levon Nazarian, MD*

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**2:00 PM–2:30 PM**

Ultrasound Evaluation of Hernias and Septic Joints

*Marnix Van Holsbeeck, MD*

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**2:30 PM–2:50 PM**

Ultrasound Evaluation of Causes of Leg Pain and Swelling Other Than Deep Venous Thrombosis

*Ulrike Hamper, MD*

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**2:50 PM–3:10 PM**

Location and Removal of Foreign Bodies (Glass, Metal, and Wood Splinters) Using Ultrasound Guidance

*William Shiels, MD*

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**3:10 PM–3:30 PM**

Point-of-Care Ultrasound Evaluation of Acute Extremity Pathology

*Michael Blaivas, MD*
**Breast Sonography**
*Moderator: Susan Ackerman, MD*
*Astor Ballroom • Seventh Floor*

This course will cover Doppler ultrasound evaluation of breast masses, ultrasound screening, ultrasound imaging of the postoperative breast, ultrasound-guided breast and cervical node biopsy, 3-dimensional ultrasound, and elastography. This course will fulfill Mammography Quality Standards Act CME requirements for breast imaging.

**1:30 PM–2:00 PM**  
Sonography of Postsurgical and Postradiation Changes of the Breast  
*Gary Whitman, MD*

**2:00 PM–2:30 PM**  
Mammographic, Magnetic Resonance Imaging, and Sonographic Correlation of Breast Disease  
*Susan Ackerman, MD*

**2:30 PM–3:00 PM**  
Challenges and Dilemmas of Ultrasound-Guided Breast Procedures  
*Abid Irshad, MD*

**3:00 PM–3:30 PM**  
Emerging Technologies in Breast Imaging  
*Ellen Mendelson, MD*

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**OB/SONO**

**Coding, the Hard-to-Scan Patient, and Legal Issues in Obstetric Ultrasound**
*Moderator: Jacques Abramowicz, MD*
*Manhattan Ballroom • Eighth Floor*

This course will review coding issues for obstetric ultrasound, biosafety issues of ultrasound, and legal issues arising from obstetric ultrasound.

**1:30 PM–2:10 PM**  
Coding and Billing in Obstetric Ultrasound: Staying out of Trouble  
*Andrew Helfgott, MD*

**2:10 PM–2:50 PM**  
Legal Issues  
*James Shwayder, MD, JD*

**2:50 PM–3:30 PM**  
The Hard-to-Scan Patient: Obesity and Obstetric Ultrasound  
*E. Rebecca Pschirrer, MD, MPH*
**Contrast-Assisted High-Frequency Ultrasound**

*Moderators: Jonathan Mamou, PhD, and Michael Oelze, PhD*

*Marquis Ballroom C • Ninth Floor*

The objective of this course is to review the state of the art in the use of contrast agents at high frequencies to map perfusion and blood flow in tumor models.

1:30 PM–2:00 PM  
Influence of Shell Parameters on the High-Frequency Response of Polymer-Shelled Ultrasound Contrast Agents  
*Jeffrey Ketterling, PhD*

2:00 PM–2:30 PM  
Power Doppler Micro-Ultrasound Evaluation of Anticancer Therapy Effects  
*Gregory Czarnota, PhD, MD*

2:30 PM–3:00 PM  
Quantitative Measures of Blood Flow in Tumors Subjected to Chemotherapy  
*Raffi Karshafian, MD*

3:00 PM–3:30 PM  
Contrast Response Modifications When the Frequency Scale Changes  
*Lori Bridal, PhD*

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**Contrast-Enhanced Ultrasound: Clinical Uses**

*Moderator: Barry Goldberg, MD*

*Marquis Ballroom A/B • Ninth Floor*

The objective of this course is to make the general ultrasound community more aware of the advantages of using ultrasound contrast agents.

1:30 PM–2:00 PM  
Contrast-Enhanced Ultrasound and Its Impact on the Clinical Practice of Cardiology  
*Steven Feinstein, MD*

2:00 PM–2:30 PM  
Characterization of Focal Liver Masses With Contrast-Enhanced Ultrasound: A Usable Algorithm  
*Stephanie Wilson, MD*

2:30 PM–2:50 PM  
The Use of Contrast-Enhanced Ultrasound in Monitoring the Effectiveness of Interventional Therapies  
*Robert Mattrey, MD*

2:50 PM–3:10 PM  
Assessment of Tumor Treatment Response With Contrast-Enhanced Sonography  
*Andrej Lyshchik, MD, PhD*

3:10 PM–3:30 PM  
The Use of Contrast-Enhanced Ultrasound for Vascular Applications, Inflammatory Bowel Disease, and Lymphatic Imaging  
*Barry Goldberg, MD*
First-Trimester Cardiac Screening

Moderators: Lisa Allen, BS, RDMS, RDCS, RVT, and Lami Yeo, MD

Broadway Ballroom South • Sixth Floor

Nuchal translucency (NT) evaluation has become an important screening tool in the first trimester. The objective of this course is to review evaluation of the fetal heart during the first trimester, along with other methods of first-trimester screening for congenital heart defects (CHDs). Bioeffects on the fetus and follow-up scanning strategies will be discussed. Bioeffects topics include the safety of Doppler ultrasound for the first-trimester fetus, the sensitivity of fetal echocardiography in the first trimester, ductus venosus Doppler imaging and CHD detection, tricuspid regurgitation and CHD detection, and follow-up strategies after NT evaluation is performed.

1:30 PM–1:50 PM  Bioeffects: Is Doppler Ultrasound Safe for the First-Trimester Fetus?
                  Thomas Nelson, PhD

1:50 PM–2:10 PM  Is Fetal Echocardiography Sensitive in the First Trimester?
                  Kathryn Reed, MD

2:10 PM–2:30 PM  Detection of Congenital Heart Defects in Fetuses With Normal Nuchal Translucency During First-Trimester Nuchal Translucency Screening
                  Greggory DeVore, MD

2:30 PM–2:50 PM  Tricuspid Regurgitation and Congenital Heart Defect Detection
                  Ray Bahado-Singh, MD

2:50 PM–3:15 PM  Follow-up Strategies After Nuchal Translucency Is Performed
                  Lawrence Platt, MD

Nongynecologic Ultrasound Findings on Pelvic Scans

Moderator: Sherelle Laifer-Narin, MD

Broadway Ballroom North • Sixth Floor

This course will focus on a variety of pathologies such as expressions of systemic diseases involving the walls of the pelvis, lymphatic system, and blood vessels. The material will heavily rely on the long-standing experience of radiologists and gynecologic imaging specialists.

1:30 PM–2:10 PM  The Gynecologist’s View
                  Ilan Timor-Tritsch, MD

2:10 PM–2:50 PM  The Radiologist’s View
                  Oksana Baltarowich, MD

2:50 PM–3:30 PM  Can Magnetic Resonance Imaging Help?
                  Sherelle Laifer-Narin, MD
Practice Management 2
Moderator: Salvatore LaRusso, MEd, RDMS, RT(R)
Majestic/Music Box • Sixth Floor

The objective of this course is to understand the following topics: licensure—pros and cons; understanding Current Procedural Terminology and International Classification of Diseases–9 coding, including changes and updates; how to code new examinations and nonroutine examinations; legal issues for sonographers; preventing musculoskeletal injuries in your staff; how to justify and purchase or upgrade ultrasound units and picture archiving and communications systems equipment; keeping up with insurance laws, such as preauthorization of examinations for Medicare patients; and Occupational Safety and Health Administration and labor relations with the sonographer.

1:30 PM–2:15 PM  
Customer Service and Employee Engagement  
Salvatore LaRusso, MEd, RDMS, RT(R)

2:15 PM–2:45 PM  
Evaluating Equipment and Accessories and How to Justify Equipment Purchase and Upgrades  
Diana Strickland, BS, BA, RDMS, RDCS

2:45 PM–3:30 PM  
Diana Strickland, BS, BA, RDMS, RDCS

Renal Doppler Ultrasound
Moderator: John Blebea, MD
Shubert Complex • Sixth Floor

This course will cover the use of Doppler ultrasound to help evaluate the kidney, including parenchymal, arterial, and venous pathology.

1:30 PM–2:10 PM  
Renal Artery Stenosis  
Shweta Bhatt, MD

2:10 PM–2:50 PM  
Stents/Angioplasty/Bypass  
Roy Fujitani, MD

2:50 PM–3:30 PM  
Follow-up of Patients After Interventions  
Glenn Jacobowitz, MD

Executive Committee Meeting
Barrymore • Ninth Floor

Convention • Sunday, April 17
3:45 PM–5:00 PM
Scientific Sessions

Six concurrent sessions, each including up to 6 presentations on the latest ultrasound research, are offered during this period. *indicates presenter.

**CEUS** Contrast-Enhanced Ultrasound: Animals
Moderators: Flemming Forsberg, PhD, and Dennis Paul, RDMS, RDCS
Soho/Herald/Gramercy • Seventh Floor

3:45 PM–3:57 PM
987437 Contrast-Enhanced Maximum-Intensity Projection Ultrasound Imaging for Assessing Angiogenesis in Murine Glioma and Breast Tumor Models
Forsberg, Flemming*; Ro, Raymond; Fox, Traci; Liu, Ji-Bin; Chiou, See-Ying; Potoczek, Magdalena; Goldberg, Barry

3:57 PM–4:09 PM
987549 Contrast-Enhanced Ultrasound Imaging of Sentinel Lymph Nodes After Peritumoral Administration of Sonazoid in a Melanoma Tumor Animal Model
Goldberg, Barry*; Merton, Daniel; Liu, Ji-Bin; Forsberg, Flemming; Aruva, Mohan; Zhang, Kaijum; Thakur, Madhukar; Schulz, Stephanie; Schanche, Robin; Murphy, George; Waldman, Scott

4:09 PM–4:21 PM
990492 Dynamics of Ultrasound Contrast Agents at High Multiples of Their Resonance Frequency and Their Clinical Relevance
Jafari Sojahrood, Amin*; Gong, Yanjun; Falou, Omar; Porter, Tyron; Kolios, Michael

4:21 PM–4:33 PM
989600 Subharmonic Signals for Noninvasive Cardiac Pressure Estimation: Initial In Vivo Experience
Dave, Jaydev*; Halldorsdottir, Valgerdur; Eisenbrey, John; McDonald, Maureen; Liu, Ji-Bin; Raichlen, Joel; Leung, Corina; Dickie, Kris; Forsberg, Flemming

4:33 PM–4:45 PM
987406 Comparison of Parametric Contrast-Enhanced Fundamental and Subharmonic Intravascular Ultrasound for Plaque Identification
Eisenbrey, John*; Sridharan, Anush; Lobel, Beata; deMuinck, Ebo; Forsberg, Flemming; Doyley, Marvin

4:45 PM–4:57 PM
Questions and Answers
Obstetric Ultrasound: Uterus, Placenta, and Cervix

Moderators: Patricia Mayberry, RDMS, and Andre ReBarber, MD

Broadway Ballroom North • Sixth Floor

3:45 PM–3:57 PM
989335 Ultrasound Prediction of Placenta Accreta: Correlation With Clinical and Pathology Outcomes
Toy, Eugene*; Bolt, Katherine; Fernandez, Laura; Kaplan, Alan

3:57 PM–4:09 PM
990105 Incidence of Vasa Previa in Twin Gestations Diagnosed With Placenta Previa at 15 to 19 Weeks’ Gestation
Rebarber, Andrei*; Fox, Nathan; Roman, Ashley; Kohari, Katherine; Feinberg, Jessica; Klauser, Chad; Saltzman, Daniel

4:09 PM–4:21 PM
990036 Comparison of 2 Techniques for Cervical Length Measurement for Prediction of Spontaneous Preterm Birth in Twin Pregnancies
Roman, Ashley*; Pessel, Cara; Fox, Nathan; Klauser, Chad; Saltzman, Daniel; Rebarber, Andrei

4:21 PM–4:33 PM
990765 Placental Rim Sign: A 3-Dimensional Rendition of Circumvallate Placentation
Jackson, David

4:33 PM–4:45 PM
990755 Defining the Placental Marginal Sinus
Jackson, David

4:45 PM–4:57 PM
990066 Persistence of Placenta Previa in Twin Gestations Based on Gestational Age at Ultrasound Detection
Kohari, Katherine*; Roman, Ashley; Fox, Nathan; Feinberg, Jessica; Saltzman, Daniel; Klauser, Chad; Rebarber, Andrei
**Pediatric Ultrasound**

**Moderators:** Steven Kraus, MD, and Harriet Paltiel, MD

**Manhattan Ballroom • Eighth Floor**

**3:45 PM–3:57 PM**

**988158** Is High Resistance/Absence of Diastolic Flow in Prepubertal Testes Really the Norm? An Update  
Kraus, Steven*; O’Hara, Sara; Adams, Janet

**3:57 PM–4:09 PM**

**990629** Pontine and Midbrain Echogenicity Explained: In Vivo and Ex Vivo Ultrasound Anisotropy With Magnetic Resonance Imaging Diffusion Tensor Tractography Correlation  
Coley, Ian*; Kashou, Nasser; Coley, Brian

**4:09 PM–4:21 PM**

**989520** Diagnostic Yield of Imaging Simple Sacral Dimples in Neonates  
Coley, Ian*; Allison, Travis; Snyder, Emma; Kosnik, Edward; Coley, Brian

**4:21 PM–4:33 PM**

**989973** Spermatic Cord Torsion: Are We Looking at the Right Place?  
del Pozo, Gloria*; Gallego, Carmen; Arevalo, Julio; Castaño, Marta; Martin Toribio, Alejandro; Gomez, Andres

**4:33 PM–4:45 PM**

**980946** Effect of Ductus Arteriosus–Dependent Congenital Heart Disease on Cerebral Blood Flow Doppler Patterns in the Neonatal Period  
Jain, Supriya*; Brook, Michael; Hornberger, Lisa; McQuillen, Patrick; Moon-Grady, Anita

**4:45 PM–4:57 PM**

**979443** Ultrasound Depiction of the Appendix: The Role of Appendix Position and Abdominal Wall Fat Thickness  
Butler, Matthew; Servaes, Sabah*; Srinivasan, Abhay; Edgar, J. Chris; del Pozo, Gloria; Lavelle, Jane; Darge, Kassa
Therapeutic Ultrasound 2
Moderators: Jason Nomura, MD, RDMS, and Thomas Nelson, PhD
Majestic/Music Box • Sixth Floor

3:45 PM–3:57 PM
989301 Ultrasound-Assisted Convection-Enhanced Drug Delivery to the Brain
Lewis, George*; Olbricht, William; Sarvazyan, Armen; Pannullo, Susan; Southard, Teresa

3:57 PM–4:09 PM
990294 In Vivo Identification of the Mechanism Behind Ultrasound-Induced Blood-Brain Barrier Opening
Tung, Yao-Sheng*; Vlachos, Fotios; Selert, Kirsten; Konofagou, Elisa

4:09 PM–4:21 PM
990437 In Silico and Ex Vivo Feasibility Study on Thermal Lesion Mapping With Harmonic Motion Imaging for Focused Ultrasound
Hou, Gary*; Luo, Jianwen; Marquet, Fabrice; Vappou, Jonathan; Konofagou, Elisa

4:21 PM–4:33 PM
990461 Feasibility Study of a Simple Transcranial Focused Ultrasound System Applied to Blood-Brain Barrier Opening
Marquet, Fabrice*; Tung, Yao-Sheng; Konofagou, Elisa

4:33 PM–4:45 PM
Questions and Answers
**Tissue Characterization**

*Moderators: Gregory Czarnota, PhD, MD, and Jonathan Mamou, PhD*

*Shubert Complex • Sixth Floor*

**3:45 PM–3:57 PM**

985516  Intraobserver and Interobserver Variability in the Estimation of Liver Fibrosis With Shear Wave Elastography in Chronic Liver Disease: A Proposition for Standardization Through a Modified Protocol

Zoumpoulis, Pavlos*; Theotokas, Ioannis; Plagou, Athena; Konstantina, Mpouhra; Eirini, Vafeiadi

**3:57 PM–4:09 PM**

989761  Early Detection of Coronary Stenosis With Myocardial Elastography: A Clinical Feasibility Study

Okrasinski, Stanley*; Wan, Elaine; Oe, Yukiko; Konofagou, Elisa

**4:09 PM–4:21 PM**

987721  Shear Wave and Strain Elastography in Ultrasound Diagnosis of Thyroid Cancer

Slapa, Rafal*; Jakubowski, Wieslaw; Piwowonski, Antoni; Bierca, Jacek; Szopinski, Kazimierz

**4:21 PM–4:33 PM**

987454  Estimate of Effective Scatterer Diameter and Acoustic Concentration in Ultrasound Examination of the Cervix in Pregnant Women as Predictors of Premature Delivery

Bigelow, Timothy*; McFarlin, Barbara; Labyed, Yassin; Abramowicz, Jacques

**4:33 PM–4:45 PM**

987586  Shear Wave Elastography During Sonography of Adrenal and Liver Masses: Feasibility Study

Slapa, Rafal*; Kasperlik-Zaluska, Anna; Jakubowski, Wieslaw; Piwowonski, Antoni; Bednarczuk, Tomasz; Szopinski, Kazimierz

**4:45 PM–4:57 PM**

Questions and Answers
**G&A Vascular Ultrasound**

*Moderators: Liz Ladrido, RDMS, and Tricia Turner, RDMS*

Astor Ballroom • Seventh Floor

3:45 PM–3:57 PM

988333 Potential of Ultrasound Elasticity Measurements of the Brachial Artery for Determining Arteriovenous Fistula Maturation

Sorace, Anna*; Hoyt, Kenneth; Abts, Carl; Robbin, Michelle; Lockhart, Mark; Allon, Michael

3:57 PM–4:09 PM

977586 Distribution of Lower Extremity Thrombi at Ultrasound in 270 Extremities

Coursey, Courtney*; Mittal, Pardeep; Applegate, Kimberly; Stein, Jason

4:09 PM–4:21 PM

990471 Transcranial Doppler Sonography to Evaluate Neurovascular Changes in Acute Blunt Cervical Vascular Injury

Purvis, Dianna*; Aldaghlas, Tayseer; Rizzo, Anne; Sikdar, Siddhartha

4:21 PM–4:57 PM

Questions and Answers

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**3:45 PM–5:00 PM**

**Just Images Session**

**MSK THERA**

**Shoulder**

*Moderator: Levon Nazarian, MD*

Marquis Ballroom A/B • Ninth Floor

*Faculty: Etienne Cardinal, MD, Victor Flores, MD, Levon Nazarian, MD, and Gregory Saboeiro, MD*

In an effort to balance rarer with commonly examined joint areas, this session will focus on images of this most frequently examined joint area.

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**5:15 PM**

**AIUM Business Meeting**

Cantor • Ninth Floor
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Answers!
Scientific Poster Sessions

Posters will be located on the Fourth Floor in the following rooms:
Brecht • Wilder • Odets • O’Neill

All scientific posters are available for viewing
Friday, April 15, 11:30 AM–5:00 PM,
Saturday, April 16, 8:30 AM–5:30 PM,
and Sunday, April 17, 8:30 AM–2:00 PM.

Authors of scientific posters will be available
to discuss their research on
Saturday, April 16, 12:30 PM–1:30 PM, and
Sunday, April 17, 12:30 PM–1:30 PM, as indicated.
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Authors will be available to discuss their research presented on the following posters on Saturday, April 16, 12:30 PM–1:30 PM, and Sunday, April 17, 12:30 PM–1:30 PM.

/indicates e-posters
* indicates presenter

Saturday, April 16

909004  Sonographic Imaging Feature of Metastatic Carcinoid to the Breast
Jones, Katie; Glazebrook, Katrina*; Dilaveri, Christina; Perry, Kyle; Reynolds, Carol

925461  Four-Dimensional Ultrasonography for Therapeutic Radio Frequency Ablation of Hepatocellular Carcinoma, Including Enhanced Ultrasonography
Hotta, Naoki

926121  Evaluation of Liver Fibrosis and Liver Function in Chronic Hepatitis C by Contrast-Enhanced Ultrasonography With Sonazoid Using Arrival Time Parametric Imaging
Wakui, Noritaka*; Takayama, Ryui; Sumino, Yasukiyo; Kamiyama, Naohisa

927358  Palliative Ultrasound for Home Care Hospice Patients
Mariani, Peter*; Setla, Judith

938645  Diagnosis and Evaluation of Therapeutic Effects on Rectal Varices Using Percutaneous Color Doppler Ultrasonography
Sato, Takahiro*; Akaike, Jun; Ohmura, Takumi; Karino, Yoshiyasu; Toyota, Jouji

940456  Diaphragm Kinetics by M-Mode Sonography
Ayoub, Jean

944040  Evaluation of the Presence of a Subchorionic Hematoma on First-Trimester Ultrasound and Midtrimester Cervical Length: A Retrospective Cohort
Lemcke, Erin*; Dozier, Ann; Glantz, Christopher; Dolan, James; Hackney, David
947856  Ultrasound Imaging of the Serratus Anterior
Witt, Dexter*; Talbott, Nancy

975191  Ultrasound in Infants With a Positive Newborn Screen for
Thyroid Agenesis
McLean, Glenda; DeSilva, Amaranthi; Nandurkar, Deepali; Jong, Ian;
Brown, Justin; Rodda, Christine*; Bergman, Philip

976071  Comparing Detection Rates of Congenital Cardiac Anomalies
Between Maternal-Fetal Medicine–Trained Physicians and
Pediatric Cardiologists
Lazebnik, Noam; Brook, Rachel; Goh, William*

976408  Development of an Emergency Ultrasound Program
Pontius, Elizabeth*; Bendeck, Kirsten; Layman, Kerri; Phillips, Carolyn;
Antonis, Michael

976701  Persistent Adnexal Masses and Pregnancy Outcome
Goh, William*; Rincon, Monica; Tolosa, Jorge; Sohaey, Roya; Arpin,
Leslie; Riano, Rene; Adams, Shannel; Davis, James; Bohrer, Justin;
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976787  Imaging Findings of Lobular Carcinoma In Situ
Choi, BoBae*; Kim, Sung; Park, Chang; Cha, Eun

977047  Symptomatic Plantar Fibroma With Unique Sonographic
Characteristics
Haun, Daniel*; Cho, John; Kettner, Norman

977666  Utility of Ultrasound or Computed Tomography as the Second
Imaging Test in Women With Symptoms Referrable to the Pelvis
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Sarin, Sachin; El-Maraghi, Robert

979100  Latent to Active Phase of Labor Transition Detection Using
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Digital Examination: A Double-Blind Study
Zimerman, Ariel*; Maymon, Ron; Herman, Arie; Tobvin, Yosef

980562  Development of a Novel, Low-Cost, Liquid Uniformity
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King, Deirdre*; Tradup, Donal; Stekel, Scott; Hangiandreou, Nicholas

980629  Halting Tumor Growth Using a Drug-Loaded Polymer
Contrast Agent
Cochran, Michael*; Eisenbrey, John; Soulen, Michael; Wheatley, Margaret

980920  Association of a Higher Prepregnancy Body Mass Index With a
Greater Femur Length at 16 to 20 Weeks
Burwick, Richard*; Rifas-Shiman, Sheryl; Oken, Emily; Parker,
Margaret; Gillman, Matthew

982684  Correlation of Ultrasound Experience to Improvement of Core
Ultrasound Scan Interpretation by Emergency Medicine Residents
Chinwala, Aliasgar*; Bahl, Amit
984515  Rare Carcinoid Tumor of the Appendix Seen on Ultrasound at 34 Weeks’ Gestation
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985743  Multimodality Imaging of Normal Renal and Hepatic Transplant Graft Vasculature and Graft Vascular Complications
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986140  Ultrasound-Enhanced Delivery of Medications to the Eye
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986249  Does Suture Choice Matter for Ultrasound-Indicated Cerclage?
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986466  Assessment of a Training Curriculum for Emergency Ultrasound for Pediatric Soft Tissue Infections
Marin, Jennifer*; Alpern, Elizabeth; Panebianco, Nova; Dean, Anthony

987065  Diagnosis of a Septate Uterus in Patients With Suspected Congenital Uterine Anomalies: Role of 3-Dimensional Ultrasound Graupera, Betlem; Pascual, M. Angela*; Hereter, Lourdes; Pedrero, Cristina; Salas, Olga; Rodriguez, Ignacio

987066  Role of Ultrasound Elastography in the Assessment of the Tumoral Size of Breast Cancer
Ubeda, Belén; Navarro, Beatriz; Casandra, Wolf; Tresserra, Francisco; Rotili, Anna; Pascual, M. Angela*

987129  Virtual Touch Tissue Quantification for Noninvasive Staging of Liver Fibrosis
Kuroda, Hidekatsu*; Kakisaka, Keisuke; Takikawa Yasuhiro; Suzuki, Kazuya

987147  Ultrasound Signal Statistical Analysis Tool With the Focal Disturbance Ratio: A New Noninvasive Method for the Quantification of Hepatic Steatosis in an Animal Model
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987153  Are We Making Diagnoses With Point-of-Care Ultrasound in the Emergency Department?
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987186  Accuracy of Ultrasound-Guided Fusion Biopsies
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987283  Evaluation of Endometrial Blood Flow in In Vitro Fertilization Cycles by Power Doppler 3-Dimensional Ultrasound to Predict a Pregnancy
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988542  Outcome of Pregnancies Complicated by Placenta Accreta at Different Gestational Ages
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988613  Spatiotemporal Image Correlation Using High-Definition Flow: A New Method for Assessing Ovarian Vascularization—A Reproducibility Analysis
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988628  Use of the Gynecologic Imaging Reporting and Data System for Ultrasound Evaluation of Adnexal Masses in Clinical Practice: Results of a Multicenter Prospective Study
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989325  Delayed Reduction of the Intestine Into the Abdominal Cavity in a Normal Fetus
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989521  Usefulness of Preoperative Ultrasonography in Pediatric Female Unilateral Inguinal Hernias
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Is High Resistance/Absence of Diastolic Flow in Prepubertal Testes Really the Norm? An Update
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995549  Sonodynamic Study: Comparison of Serial Qualitative Versus Quantitative Assessments of the Caval Index and Left Ventricular Systolic Function During Fluid Resuscitation of Emergency Department Patients With Symptomatic Hypotension
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995569  Sonodynamic Caval Index Compared With Systolic Blood Pressure and Aortic Velocity Time Integral Measurements of Fluid Responsiveness in Emergency Department Patients With Atraumatic Symptomatic Hypotension
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978273  Ultrasound Fusion: A Real-time Complement to Pediatric Computed Tomography and Magnetic Resonance Imaging
Woolpert, Linda*; Junewick, Joseph

982261  Predictive Value of Prenatal Bowel Dilation in Fetuses With Gastrochisis
Bennett, Kelly*; Wilson, Megan; Carroll, Maryanne; Braun, Stephanie; Walsh, William; Pietsch, John

987619  Educational Exhibit: Color Doppler Twinkling Artifact as a Diagnostic Tool in the Evaluation of Urolithiasis in Pediatric Patients
Gurian, Michael*; Darge, Kassa

989561  Lower Extremity Edema Masquerading as Monosomy X
Julien, Svena; Wong Amy*

989706  Time to Visualize Bilateral Ureteral Jets in Hydrated Emergency Department Patients
Hyde, Robert*; Schmier, Charles; Nomura, Jason; Davis, Barbara; Sierzenski, Paul

989886  Association Between a Single Umbilical Artery and Congenital Heart Disease: Is Fetal Echocardiography Indicated?
Reese, Chanda*; Muscat, Jolene; Meek, Lillian; Avila, Cecilia; Figueroa, Reinaldo

990452  An Intracervical Transducer Is Well Tolerated by Women and Does Not Cause Bacterial Inoculation
Feltovich, Helen*; Hall, Timothy

990506  Lower Urinary Tract Obstruction Associated With the Keyhole Sign in a Female Fetus
Lister, Rolanda*; Gebb, Juliana; Bajaj, Komal; Dar, Pe’er; Klugman, Susan

990621  Point-of-Care Ultrasound in the Diagnosis of a Perirectal Abscess
Adhikari, Srikar*; Schmier, Charles
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Exhibitor Profiles

**AIUM Resource Center**

Fifth Floor Lobby

AIUM CME video programs, publications, patient cards and pamphlets, and select merchandise are available for sale in the AIUM Resource Center. The center is conveniently located on the fifth floor near AIUM registration and is open extended hours so you can browse and preview the many educational products at your leisure. AIUM members save up to 50% on most products. Be sure to look for special savings on select CME video programs.

**Alpinion Medical Systems**

Booth 107

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Seoul 152-848, Korea
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Fax: 82-2-851-5591
E-mail: sales@alpinion.com
Website: http://www.alpinion.com

Core values, core technologies. Alpinion Medical Systems was established in 2007 as a true value innovator in the imaging technology field for diagnostic ultrasound imaging systems, therapeutic ultrasound systems (high-intensity focused ultrasound), and advanced piezoelectric and single-crystal transducer technologies. The LIJIN Group, Alpinion’s sole shareholder, was established in 1967 and is one of Korea’s major business groups, with a turnover of US$1.8 billion and 2300 employees globally. The LIJIN Group has business scopes including industrial materials and components, electricity, networks, construction, medical, broadcasting, and finance.

**Aloka Ultrasound**

Booth 217

10 Fairfield Blvd
Wallingford, CT 06492
Phone: 203-269-5088
Fax: 203-269-6075
E-mail: inquiry@aloka.com
Website: http://www.aloka.com

As a recognized leader in ultrasound innovation, Aloka is known for unparalleled image quality, superior system reliability, and the intuitive use of cutting-edge technology. From the super premium system Alpha 10 to the elegantly designed office-based system SSD-3500 to the affordable, highly portable black-and-white system SSD-1000, Aloka has the right solution for every practice size and diagnostic requirement.
American Registry for Diagnostic Medical Sonography (ARDMS)

Booth 606

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Plaza East One
Rockville, MD 20850 USA
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E-mail: morgan.kreutz@ardms.org
Website: http://www.ardms.org

The ARDMS, incorporated in 1975, is an independent, nonprofit organization that administers examinations and awards credentials in the areas of diagnostic medical sonography (RDMS), diagnostic cardiac sonography (RDCS), vascular interpretation (RPVI), and vascular technology (RVT). The ARDMS has more than 63,000 certified individuals throughout the world and is considered the global standard in medical ultrasound credentialing.

AS Software, Inc

Booth 315

560 Sylvan Ave
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E-mail: tsaunders@as-software.com
Website: http://www.as-software.com

AS Software, Inc specializes in ultrasound reporting and Digital Imaging and Communications in Medicine (DICOM) image management systems, which offer both physicians and hospitals state-of-the-art data management solutions. AS Software offers seamless enterprise integration for the total obstetrics and gynecology (Ob-Gyn) solution. Reports, images, and graphs in one easy-to-read clear, comprehensive, and concise report. AS Software has been providing their Ob-Gyn solution for more than 15 years and has earned a reputation for excellence in the ultrasound reporting industry.

ATS Laboratories, Inc

Booth 216

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Phone: 203-579-2700
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E-mail: atslaboratories@yahoo.com
Website: http://www.atslaboratories.com

ATS designs and manufactures phantoms to evaluate the performance of ultrasound imaging systems. Phantoms are used in quality assurance, field service, research and development, sales, marketing, and education. ATS specializes in custom-designed phantoms for your unique requirements. Products: Doppler flow system, training, and multipurpose phantoms. The multipurpose and beam profile phantoms meet the American College of Radiology Technical Standard performance-monitoring requirements for ultrasound imaging systems.
Biocell Center Corporation  
Booth 106

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Medford, MA 02155 USA  
Phone: 781-391-2040  
Fax: 781-395-0602  
E-mail: info@biocellcenter.com  
Website: http://www.biocellcenter.com/

Biocell Center is the only company in the world offering the private preservation of amniotic fluid cells, including amniotic fluid stem cells, from amniocentesis. The medical community worldwide is already testing stem cells from other sources for tissue regeneration and transplantation, and even more important medical breakthroughs are foreseen in the future treatment of diabetes and neurodegenerative disorders. Biocell Center's mission is to cryopreserve the amniotic fluid cells obtained from the amniocentesis procedure as the potential biological insurance for the future.

Center for Fetal Diagnosis and Treatment at the Children's Hospital of Philadelphia (CHOP)  
Booth 211

34th Street and Civic Center Boulevard  
5126 Wood Building  
Philadelphia, PA 19104 USA  
Phone: 215-590-5298  
Fax: 215-590-2447  
E-mail: galien@email.chop.edu  
Website: http://www.fetalsurgery.chop.edu

The center provides multidisciplinary care for mothers carrying fetuses with known birth defects, from prenatal evaluation, diagnosis, and surveillance through delivery and treatment. Therapies include fetoscopy, open fetal surgery, and postnatal surgery. In 2008, the center opened the Garbose Family Special Delivery Unit, the world's first birth facility devoted exclusively to women carrying fetuses with diagnosed birth defects, providing comprehensive, compassionate care focused on two patients: mother and baby.

CIRS, Inc  
Booth 516

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Norfolk, VA 23513 USA  
Phone: 757-855-2765  
Fax: 757-857-0523  
E-mail: admin@cirinc.com  
Website: http://www.cirinc.com

For more than 25 years, CIRS has manufactured a wide range of ultrasound products for quality assurance, training, and demonstration. Products such as our biometric fetal phantom, cardiac phantom, vascular access training kit, and thyroid biopsy phantom provide users with a realistic tool to learn general scan techniques or practice ultrasound-guided interventional procedures. CIRS has several quality assurance phantoms and technical staff that can assist your facility in establishing a routine quality assurance program.
CIVCO Medical Solutions

102 First St S
Kalona, IA 52247 USA
Phone: 800-445-6741
Fax: 319-656-4451
E-mail: info@civco.com
Website: http://www.civco.com/

With more than 30 years of experience, CIVCO Medical Solutions is a recognized leader in increasing patient throughput and clinical productivity while improving patient outcomes. The Multi-Modality Imaging Unit designs, manufactures, and markets accessories for use in diagnostic and therapeutic imaging and interventional procedures, with a strong focus on ultrasound. CIVCO partners with leading imaging and device manufacturers to supply innovative needle guidance and infection prevention products, including the revolutionary eTRAX needle guidance system, infection control and transducer covers, and positioning and stabilizing equipment. CIVCO offers products for men's and women's health care, anesthesia, echocardiography, vascular access, gastroenterology, surgery, and emergency medicine.

ContextVision AB

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11135 Stockholm, Sweden
Phone: 46-8-750-3550
Fax: 46-8-750-5494
E-mail: info@contextvision.se
Website: http://www.contextvision.com

ContextVision is the leading independent developer in medical imaging enhancement, analysis, and processing technologies, serving leading original equipment manufacturers and distributors for 25 years. ContextVision's embedded imaging software is relied on daily by thousands of users around the globe. ContextVision's patented GOP algorithm allows unprecedented image quality to be achieved by simultaneously enhancing fine structure while reducing noise and speckle across magnetic resonance imaging, x-ray, ultrasound, computed tomography, and infrared imaging. ContextVision's technology enables the company's customers to provide superior digital imaging quality to hospitals and clinicians. Such solutions promise more rapid and accurate diagnoses, reduced operator eye fatigue, and ultimately, a greater return on investment for medical imaging users. At the AIUM, ContextVision will have a world introduction of its new real-time volumetric image enhancement for ultrasound.
Cook Medical

Booth 612

PO Box 489
Bloomington, IN 47402 USA
Phone: 800-468-1379
E-mail: susan.rumple@cookmedical.com
Website: http://www.cookmedical.com

With international headquarters in Bloomington, Indiana, Cook Medical, the world’s largest privately held medical device manufacturer, is a leading designer, manufacturer, and global distributor of minimally invasive medical device technology for diagnostic and therapeutic procedures. Since its founding in 1963, Cook has created innovative technologies for radiology, cardiology, urology, critical care medicine, general surgery, assisted reproduction, gynecology and obstetrics, endovascular medicine, gastroenterology, and endoscopy.

Digisonics, Inc

Booth 519

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Phone: 713-529-7979
Fax: 713-529-7999
E-mail: doraw@digison.net
Website: http://www.digisonics.com

Digisonics has set the standard for obstetric and gynecologic software systems for more than 25 years, with the first review station, the first fully functional Web-based system, and a fully integrated 3-dimensional (3D)/4D analysis package. OB-View solutions bring together high-performance image analysis systems, professional reporting choices, an integrated clinical database, and a powerful picture archiving and communications system all in one system. OB-View solutions maximize efficiency by integrating and automating the entire complex work flow, resulting in maximum productivity.

Esaote North America

Booth 214

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Phone: 800-428-4374
Fax: 317-813-6600
E-mail: inquire@esaoteusa.com
Website: http://www.esaoteusa.com

Esaote North America, a market leader in diagnostic portable and console-based ultrasound systems, offers the MyLab series, a high-performance ultrasound family. The MyLab line provides comprehensive diagnoses, offers excellent value, and features high-level functionality. The platform offers a common user interface, shared probes, and full digital workflow capability. The full line of MyLab ultrasound systems is designed to meet the demands of real-world scanning environments. Whether for private practice, mobile services, hospitals, or clinics, Esaote’s multispecialty systems offer outstanding image quality and advanced diagnostic capabilities for more confident diagnoses.
Fetal Medicine Foundation USA

3751 Red Oak Ct
Beavercreek, OH 45430 USA
Phone: 937-208-6084
Fax: 937-208-4268
E-mail: tlstuerman@mvh.org
Website: http://www.fetalmedicineusa.com

Established in 1995, the Fetal Medicine Foundation (FMF) is recognized as the world leader in fetal medicine education, research, and accreditation. Offering free online courses and lectures to the world, the FMF is dedicated to advancing the field of fetal medicine and making a difference in the lives of moms and their babies. Go to www.fetalmedicine.com and join the other 30,000 physicians and sonographers who have taken our free 11- to 13-week scan course.

GE Healthcare

9900 Innovation Dr, RP2139
Wauwatosa, WI 53226 USA
Phone: 888-202-5528
Website: http://www.gehealthcare.com/usen/ultrasound/index.html

GE Healthcare provides transformational medical technologies that will shape a new age of patient care. GE Healthcare’s expertise in medical imaging and information technologies, medical diagnostics, patient-monitoring systems, disease research, drug discovery, and biopharmaceuticals is dedicated to detecting disease earlier and tailoring treatment for individual patients. GE Healthcare offers a broad range of services to improve productivity in healthcare and enable healthcare providers to better diagnose, treat, and manage patients. For more information, visit www.gehealthcare.com.

Hitachi Medical Systems America, Inc

1959 Summit Commerce Park
Twinsburg, OH 44087 USA
Phone: 800-800-3106
Fax: 330-405-8173
E-mail: info@hitachimed.com
Website: http://www.hitachimed.com

Hitachi Medical Systems America, Inc, is a leading provider of diagnostic imaging systems including the HI VISION Preirus, a compact premium system featuring a high-definition monitor with integrated touch screen operation and a host of advanced acquisition techniques such as elastography, a completely new way of using ultrasound that depicts the relative stiffness of tissue and displays it in real time with the B-mode image using a color map overlay. Hitachi Medical Systems also features the HI VISION 5500 with specialized transducers for interventional procedures, minimally invasive surgery, and prostate therapy. For more information about Hitachi Medical Systems’ full line of products, visit www.hitachimed.com.
Ultrasound is a cornerstone of your hospital's imaging department, but are you seeing the most from your investment? Chances are you’re not. If you’re looking at ultrasound images on a multimodality picture archiving and communications system (PACS) workstation, productivity might be suffering, and you might be missing out on important diagnostic information. The Imorgon ultrasound PACS solution is optimized for the way you want to view ultrasound studies today. It lets you automatically display all the information in a patient's ultrasound study. Clips and still images simultaneously play, automatically, in acquisition order and at acquisition speed, on the same workstation you use to view computed tomographic (CT) and magnetic resonance (MR) images. This year, Imorgon is pleased to be introducing Imorgon 2.0, which provides seamless integration with PACS workstations, structured reporting and 3-dimensional (3D)/4D imaging. Now you can have ultrasound-specific tools and measurements, 3D reconstruction, and CT/MR imaging comparison on one workstation, and, with obstetric and vascular structured reporting, you no longer need to dictate measurements and calculations, improving work flow and patient care by reducing potential errors.

Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL)

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Ellicott City, MD 21043 USA
Phone: 800-838-2110
Fax: 866-663-5663
E-mail: accreditation@intersocietal.org
Website: http://www.intersocietal.org

The ICAVL (www.icavl.org) provides a voluntary peer-review accreditation process for facilities performing noninvasive vascular testing. The ICAEL (www.icael.org) provides a similar process for echocardiography facilities. The Standards and corresponding details of the application process for each type of accreditation will be on display in our exhibit booth, or you may visit www.intersocietal.org or call 800-838-2110 for more information. Stop by the ICAEL/ICAVL booth to learn more about the webcast series Accreditation on Demand, as well as payment policies linking reimbursement to accreditation.
Medical Positioning, Inc
Booth 207
1717 Washington St
Kansas City, MO 64108 USA
Phone: 800-593-3246
Fax: 816-474-7755
E-mail: cbellinger@medicalpositioning.com
Website: http://medicalpositioning.com

Medical Positioning, Inc (MPI) manufactures and sells patented specialty beds and tables designed to improve diagnostic imaging in cardiology, radiology, mammography, and interventional procedures, and every product we offer comes with a story—your story. The story of a cardiologist who demands more precise imaging. The story of a sonographer who wants a table that is simpler to use and offers pain-free operation. All of the stories MPI hears from physicians, technicians, and directors that inspire every innovation it builds into its patented specialty beds and tables for diagnostic imaging. Starting with its first major product, the still-popular EchoBed developed nearly 2 decades ago, MPI works closely with the practitioners, physicians, and technicians to create innovative new products that deliver exceptional results for both patients and staff. MPI's products significantly improve the images obtained from ultrasound, echocardiography, and fluoroscopy equipment, leading to better diagnoses and patient outcomes. Equally important, it is done in a way that minimizes pain and injuries to the staff—your staff—who uses MPI equipment everyday. In other words, MPI creates patented products that do not require you to choose between delivering better results for your patients and more protection for staff. To date, MPI has released more than 100 models of diagnostic imaging tables and has established an installed base of more than 5500 units, many in America's leading medical centers. While that may seem like a lot of different products, the reason for offering them is simple: to give you exactly what you want and need without paying for unnecessary features. MPI offers unique, ergonomically sensitive, patented diagnostic imaging tables that position you for the best possible results.

Medison America, Inc
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Website: http://www.MedisonUSA.com

Medison's innovations in digital imaging technology are making a difference in hospitals, clinics, and private practices around the globe. The company provides a comprehensive range of state-of-the-art ultrasound products such as portable devices and multispecialty real-time 3- and 4-dimensional systems that meet the demands of health care professionals for greater functionality, reliability, and diagnostic accuracy. A dedicated provider of ultrasound solutions, Medison's commitment to research and development is unmatched in the world. See it all at MedisonUSA.com.
**Medstreaming**

8201 164th Ave NE, Suite 200  
Redmond, WA 98052 USA  
Phone: 206-724-2044  
Fax: 425-650-7477  
E-mail: ryan.plasch@medstreaming.com  
Website: http://www.medstreaming.com

Medstreaming's mission is to provide affordable and scalable medical information technology solutions in various clinical domains, such as cardiovascular, vascular, and obstetrics and gynecology. Medstreaming's vision is to enable access to medical structured data anywhere, anytime, and to allow mining and quality review services to be performed using these structured medical data.

**Parker Laboratories, Inc**

286 Eldridge Rd  
Fairfield, NJ 07004 USA  
Phone: 973-276-9500  
Fax: 973-276-9510  
E-mail: parker@parkerlabs.com  
Website: http://www.parkerlabs.com

Parker Laboratories, Inc, is the leading manufacturer of medical ultrasound products and accessories. Products include Aquasonic* 100 ultrasound transmission gel, the world standard for medical ultrasound, the Eclipse* probe cover, a latex-free probe cover pregelled with Aquasonic* 100, and ProteX*, available as a spray or premoistened wipe, a 1-step cleaner/disinfectant and safe on sensitive surfaces.

*Registered trademarks of Parker Laboratories, Inc

**PCI Medical, Inc**

8 Inspiration Ln  
Chester, CT 06412 USA  
Phone: 800-862-3394  
Fax: 866-271-5982  
E-mail: info@pcimedical.com  
Website: http://pcimedical.com

GUS vapor control systems are the right way to disinfect your transvaginal, transrectal, and transesophageal ultrasound probes. The GUS systems eliminate fumes from glutaraldehyde, ortho-phthalaldehyde, and other chemicals, while protecting your delicate probes during the soaking process. Fumes are drawn into the patented carbon filter, where they are adsorbed and eliminated, and clean air is returned to the room. PCI Medical also manufactures Glute-Out neutralizer, which is the environmentally friendly way to deactivate your high-level disinfectants before you dispose.
Pharmaceutical Innovations, Inc  
897 Frelinghuysen Ave  
Newark, NJ 07114 USA  
Phone: 973-242-2900  
Fax: 973-242-0578  
E-mail: info@pi-gels.com  
Website: http://www.pharminnovations.com  

Go green—help save the environment and conveniently save money and your time. Ultra/Phonic Free is the only biodegradable ultrasound gel. All Ultra/Phonic conductivity gels save time and money. Nonleaking and economical, 1 application is all that is necessary. The Ultra/Phonic Focus conforming gel pad, the only nonslip standoff pad is soft, solid ultrasound gel. Neonates need Fontanelle scanning pads. The Ultra/Phonic breast phantom is the only breast phantom that heals itself after needle biopsy. T-Spray and T-Spray II ultrasound disinfectant cleaners prevent cross-contamination between patients and meet US Food and Drug Administration and Environmental Protection Agency protocols for disinfecting transducers. Ultra Warmer is the eco gel warmer. Pharmaceutical Innovations’ products make your job easier. Visit the Pharmaceutical Innovations booth 323 for free samples.

Philips Healthcare  
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Andover, MA 01810 USA  
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E-mail: david.metzler@philips.com  
Website: http://www.philips.com/healthcare  

Philips is one of the world's leading health care technology companies and is committed to understanding the technological and human needs of patients and caregivers and to delivering solutions that enable more confident diagnoses, more efficient delivery of care, and more positive user experiences. People focused. Health care simplified.

Philips Research  
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Website: http://www.research.philips.com/TIPS  

Philips Research develops and markets the Therapy Imaging Probe System (TIPS) device and therapeutic ultrasound research accessories. TIPS is a turnkey solution for all preclinical research needs using therapeutic ultrasound for noninvasive gene delivery and transfection, site-targeted drug delivery, ultrasound-mediated immunotherapy, and high-intensity focused ultrasound ablation.
QSUM Biopsy Disposables, LLC
PO Box 18086
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Phone: 720-304-2135 or 877-304-4446
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E-mail: customerservice@qsum.net
Website: http://www.qsum.net/

QSUM Biopsy Disposables is dedicated to providing the highest quality, cost-effective, and innovative breast biopsy and interventional procedure products to our customers. Our product lines include stereotactic draping for the Lorad Multicare and Fisher/Siemens MammoTest prone tables, ultrasound interventional procedure draping, and magnetic resonance imaging (MRI) coil draping for GE, Siemens, Philips (Invivo), and Hologic (Sentinel) breast coils. Additionally, QSUM manufactures the Brachy Bandage, used for supporting breast brachytherapy balloon catheters. Additional products include MRI, stereotactic, and custom biopsy trays. QSUM breast self-examination products such as the all-organic Breast Bars and Breast Lotion are nonprofit items, and all proceeds go to the Jill Lamb Foundation. QSUM also provides accessory items such as Pink Gloves, featured in the “Pink Glove Dance.”

Saunders/Mosby-Elsevier
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Come see the brand-new quarterly Ultrasound Clinics of North America as well as new editions of Rumack, Diagnostic Ultrasound 2-volume set; Otto, Clinical Echocardiography; Kremkau, Principles and Instruments; Hagen and Ansert, Diagnostic Ultrasonography 2-volume set; Goldberg, Atlas of Ultrasound Measurements; Allan, Doppler Ultrasound; Zwiebel, Vascular Ultrasound; Thrush, Peripheral Vascular Ultrasound; Gaspari, Emergency Ultrasound; and more.

Siemens Medical Solutions USA, Inc
51 Valley Stream Pkwy
Malvern, PA 19355 USA
Phone: 610-448-4500
Website: http://www.usa.siemens.com/ultrasound

Siemens Medical Solutions is one of the largest suppliers of medical technologies in the world, offering complete solutions comprising medical devices, advanced information technologies, and services. Siemens Medical Solutions is known for bringing together innovative medical technologies, health care information systems, management consulting, and support services to help customers achieve tangible, sustainable, clinical, and financial outcomes. Founded more than 125 years ago, Siemens Medical Solutions brings together innovative medical devices, information technology, and services to help customers streamline workflow.
SOMA Access Systems, LLC

109 Laurens Rd, Suite 4C
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E-mail: info@somaaccesssystems.com
Website: http://www.somaaccesssystems.com

SOMA Access Systems, LLC, is a medical technology company developing innovative devices that solve real-world medical problems while making health care safer, simpler, and more cost-effective. Visit www.somaaccesssystems.com for more information about SOMA Access Systems, LLC, and the ExactTrack ultrasound probe with Virtual Needle Technology.

SonoCine, Inc

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Website: http://sonocine.com/

SonoCine provides automated whole-breast ultrasound solutions for dense-breasted women. A computer-guided technology produces consistent and repeatable scans that are reviewed at your convenience and without distraction. The system is a significant improvement in cancer detection as reported in 2 multicenter studies. Note: Does not require a dedicated ultrasound system or room.

SonoScape Co, Ltd

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SonoScape is a high-tech enterprise specializing in developing and manufacturing digital color Doppler ultrasound systems and ultrasound transducers. SonoScape has successfully developed and put into mass production 10 different models of digital color Doppler ultrasound systems and 50 types of various high-density ultrasound probes for applications including cardiac, general purpose, obstetric and gynecologic, and others. SonoScape has a state-of-the-art production line for building cutting-edge digital color Doppler ultrasound systems and high-performance high-density ultrasound probes. The annual output for color Ultrasound systems is 2000 units and 10,000 probes. The full range of SonoScape ultrasound scanners are approved or pending approval by the US Food and Drug Administration, marked with European Conformance seal, and certified by the State Food and Drug Administration of China. SonoScape has been participating in all of the major national and international medical exhibitions every year, such as the World Forum for Medicine in Dusseldorf, Germany; Radiological Society of North America in Chicago, Illinois, and European Congress of Radiology in Vienna, Austria. SonoScape's Color Doppler ultrasound systems are being exported to more than 120 countries and regions, including Europe, the United States, the Middle East, South America, Asia, and Eastern Europe.
**SonoSite, Inc**

Booth 611

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Website: http://www.sonosite.com

SonoSite, Inc, is the world leader and specialist in hand-carried and mounted ultrasound. Through its expertise in application-specific integrated circuit design, SonoSite is able to offer imaging performance typically found in costly ultrasound machines weighing more than 300 lb in a system that is approximately the size and weight of a laptop computer. This breakthrough is transforming and expanding the worldwide diagnostic ultrasound market by serving existing clinical markets more efficiently and creating new point-of-care applications where ultrasound was either too cumbersome or too expensive to be used before. With more than 50,000 systems sold since 1999, SonoSite products are known for exceptional performance, ease of use, and durability.

**Sonultra Corporation**

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Sonultra streamlines your work flow while helping to manage your bottom line. For more than 20 years, Sonultra Corporation has equipped more than 2000 maternal-fetal medicine, obstetrics and gynecology (Ob/Gyn), and radiology specialists with productivity- and research-enhancing Ob/Gyn reporting and Digital Imaging and Communications in Medicine (DICOM) image management tools. Sonultra offers scalable personal computer–based reporting and image management solutions that easily integrate with your existing picture archiving and communications, hyperspectral imaging, radiology information, and electronic medical records systems. Improve your productivity, quality assurance, billing, report distribution, paper management, and data mining.
Sound Ergonomics, LLC
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E-mail: ctcoffin@soundergonomics.com
Website: http://www.soundergonomics.com

Sound Ergonomics, LLC, founded by sonographers, provides consulting services and
ergonomic products for the prevention of occupational musculoskeletal disorders in allied
health personnel. Our consultants have more than 60 years of combined medical imaging
experience and hold graduate certificates in occupational ergonomics. Although our
specialty is injury prevention among allied health workers, we also provide consulting
services to workers in a variety of computer-related fields. Services offered by Sound
Ergonomics include educational programs, workshops, continuing medical education
lectures, clinical site evaluations, and examination room and computer workstation setup
consultation. Products include arm support cushions, cable support arm bands and wrist
supports, monitor mounts, keyboard trays, and ergonomic examination tables and seating.
New products include the S’Ergo Shoulder Assist for arm support, a cardiac cushion for
easier patient access during echocardiography examinations, and a new line of ergonomi-
cally designed and economical examination tables.

Sound Technology, Inc
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Website: http://www.sti-ultrasound.com

Since 1987, Sound Technology, Inc (STI) has provided medical ultrasound original equip-
ment manufacturers (OEMs) with state-of-the-art ultrasound probes and engineering
services. As a wholly owned subsidiary of Analogic Corporation, STI focuses on innova-
tion and partnership with global customers and suppliers to serve the growing demand for
quality and affordable diagnostic ultrasound product solutions. With facilities in both State
College, Pennsylvania, and Denver, Colorado, STI designs and manufactures a complete
portfolio of ultrasound transducers for a wide range of applications, including radiology,
cardiology, obstetrics, gynecology, and surgery. Starting at the initial design phase, STI’s
engineers work closely with their customers to exceed all technical requirements, guaran-
tee optimal integration between transducers and ultrasound systems, and offer ergonomic
solutions for the comfort of both sonographers and patients. Through continuous dedica-
tion to innovation and strategic partnerships, STI is now offering its OEM customers new
abdominal and endocavity probe designs for real-time volumetric imaging and high-
performance acoustic designs to meet the price/performance demands of both midrange
and high-end ultrasound systems.
SuperSonic Imagine, Inc

8347 154th Ave NE
Redmond, WA 98052 USA
Phone: 425-284-6610
Fax: 425-284-6623
E-mail: ed.mcclenny@supersonicimagine.com
Website: http://www.supersonicimagine.com

SuperSonic Imagine, based in Aix-en-Provence, France, is a young, innovative, multicultural company with a commitment to providing advanced technology to improve medical diagnosis. Founded in 2005 by world-renowned ultrasound and medical imaging research scientists, SuperSonic Imagine has developed Aixplorer, a complete ultrasound system with a revolutionary imaging technology. With offices on 4 continents, the company holds 23 international patents and submissions that are solely owned and solely used by SuperSonic Imagine.

Texas Children’s Fetal Center

6621 Fannin St
Houston, TX 77030 USA
Phone: 877-338-2579
Fax: 832-825-3141
E-mail: fetal@texaschildrens.com
Website: http://www.fetal.texaschildrens.org

Located within Texas Children’s Hospital in Houston, Texas Children’s Fetal Center is one of only a few centers in the United States and one of only a handful internationally to offer the full spectrum of fetal therapies. Its physicians are recognized leaders in fetal medicine and fetal and neonatal surgery. Texas Children’s Fetal Center offers compassionate, comprehensive care to meet the needs of pregnant women, including advanced diagnostic procedures and consultation every step of the way to help families understand complex diagnoses and treatment. Texas Children’s Fetal Center’s team is committed to the best possible outcome for each family.

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The New York Times is the largest metropolitan newspaper in the United States. Although nicknamed the “Gray Lady” for its staid appearance and style, it is frequently relied on as the official and authoritative reference for modern events.
TomTec Imaging Systems GbmbH  
Booth 707
525 W Monroe Street, Suite 2360  
Chicago, IL 60661 USA  
Phone: 407-554-1289  
Website: http://www.tomtec.de

TomTec is a worldwide software solutions provider for medical imaging and management. TomTec holds a leading position in driving innovations in the field of diagnostic medical imaging applications. TomTec integrates its technology for routine clinical use into medical device manufacturing partner products. The product line encompasses a wide range of 2-dimensional (2D) and 3D/4D technologies for visualization, analysis, quantification, and information processing as well as the management of multimodality image data. TomTec's products are applicable to the fields of adult and pediatric cardiology as well as obstetrics, gynecology, radiology, and vascular diagnostics.

Toshiba America Medical Systems, Inc  
Booth 522
2441 Michelle Dr  
Tustin, CA 92780 USA  
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Fax: 714-734-0362  
E-mail: marketingcommunications@tams.com  
Website: http://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 customers with the patient-focused technology and optimum system performance needed to succeed in today's health care marketplace.

UltraLinq Healthcare Solutions, Inc  
Booth 221
236 West 30th St, 15th Floor  
New York, NY 10001 USA  
Phone: 646-666-9576  
E-mail: sfarber@ultralinq.com  
Website: http://www.UltraLinq.com

UltraLinq Healthcare Solutions provides a Web-based ultrasound and image management solution, which can revolutionize your practice by providing physicians, sonographers, and administrators with the most effective and seamless process for viewing, reporting, managing, sharing, distributing, and archiving ultrasound studies. Delivered under software as a service model, UltraLinq allows you to match your expenses with revenues by charging a study fee per upload.
Ultrasonix Medical Corporation

130-4311 Viking Way
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Phone: 604-279-8550
Fax: 604-279-8559
E-mail: info@ultrasonix.com
Website: http://www.ultrasonix.com

Ultrasonix combines research findings with innovative design into intuitive, easy-to-use, high-performing ultrasound systems used by clinicians around the world. The SonixTOUCH offers a completely touch screen-driven user interface, premium image quality, advanced imaging modes, and full connectivity, all packaged in a compact, lightweight system. The SonixTOUCH Research is the leading ultrasound research platform used in most major ultrasound research centers. The application-specific SonixTOUCH versions of the product all include unique features that improve work flow and patient care for specific applications.

Zonare Medical Systems, Inc

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Website: http://www.zonare.com

Zonare Medical Systems is committed to ultrasound excellence through its innovative, software-based, next-generation technology and putting customers and employees first. The patented design and architecture of the z.one ultrasound platform deliver premium image quality and clinical versatility at unparalleled value. Zonare’s exclusive ultrasound focus has resulted in achieving a user loyalty rating of 100% in the KLAS Top 20: 2009 Year-End Report. All Zonare customers interviewed for this ultrasound market report indicated that they would purchase a z.one ultrasound system again. For more information, visit www.zonare.com.
Product Listing

Computers
- Computer Software
  - AS Software, Inc
  - ContextVision AB
  - Diigisonics, Inc
  - GE Healthcare
  - UltraLinq Healthcare Solutions, Inc

Consulting Services
- Insurance
  - Biocell Center Corporation
  - Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEML)

Display Monitors
- GE Healthcare

Education
- Accreditation
  - American Institute of Ultrasound in Medicine (AIUM)
  - American Registry for Diagnostic Medical Sonography (ARDMS)
  - California Department of Public Health
  - Fetal Medicine Foundation, USA
  - Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEML)
- Certification
  - American Registry for Diagnostic Medical Sonography (ARDMS)
  - California Department of Public Health
  - Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEML)
- Educational Software
  - Lippincott, Williams & Wilkins

Institution/Society
- American Institute of Ultrasound in Medicine (AIUM)
- American Registry for Diagnostic Medical Sonography (ARDMS)
- California Department of Public Health
- Center for Fetal Diagnosis and Treatment at Children's Hospital of Philadelphia
- Fetal Medicine Foundation, USA
- Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEML)

Medical Textbooks
- Fetal Medicine Foundation, USA
- Lippincott, Williams & Wilkins

Publications
- American Institute of Ultrasound in Medicine (AIUM)
- Fetal Medicine Foundation, USA
- Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEML)
- Lippincott, Williams & Wilkins
- *The New York Times*

Simulators
- CIRS, Inc

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- ATS Laboratories, Inc
- Fetal Medicine Foundation, USA
- GE Healthcare
- Lippincott, Williams & Wilkins

Videotapes
- American Institute of Ultrasound in Medicine (AIUM)
- Lippincott, Williams & Wilkins

Picture Archiving and Communications Systems (PACS)
- Mini PACS
  - AS Software, Inc
  - Imorgon Medical, LLC
  - UltraLinq Healthcare Solutions, Inc
  - Ultrasonix Medical Corporation
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Imrorgon Medical, LLC
Philips Healthcare
Toshiba America Medical Systems, Inc

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Phantoms
ATS Laboratories, Inc
CIRS, Inc
Pharmaceutical Innovations, Inc

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Biocell Center Corporation
Center for Fetal Diagnosis and Treatment at Children’s Hospital of Philadelphia
Fetal Medicine Foundation, USA
Lippincott, Williams & Wilkins
Philips Research
SonoScape Company, Ltd

Supplies
Amniocentesis Trays
Cook Medical

Biopsy Supplies
Cook Medical

Catheters
Cook Medical

Disinfectants
CIVCO Medical Solutions
Parker Laboratories, Inc
Pharmaceutical Innovations, Inc

Ergonomics
Sound Ergonomics

Gel
CIVCO Medical Solutions
Parker Laboratories, Inc
Pharmaceutical Innovations, Inc

Printers
CIVCO Medical Solutions

Probes
Hitachi Medical Systems America, Inc
Sound Technology, Inc

Sheaths
CIVCO Medical Solutions
Parker Laboratories, Inc

Tables
Sound Ergonomics

Ultrasound Systems
Abdominal
Esaote North America
GE Healthcare
Hitachi Medical Systems America, Inc

Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL)
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Philips Healthcare
Siemens Medical Solutions USA, Inc

Bone Assessments
Philips Healthcare
SonoScape Company, Ltd

Color Flow Doppler
Esaote North America
GE Healthcare
Hitachi Medical Systems America, Inc
Medison America, Inc
Philips Healthcare
Siemens Medical Solutions USA, Inc
SonoScape Company, Ltd
SonoSite, Inc

Continuous Wave/Pulsed Wave Doppler
Esaote North America
GE Healthcare
Hitachi Medical Systems America, Inc
Medison America, Inc
Philips Healthcare
Siemens Medical Solutions USA, Inc
SonoScape Company, Ltd
SonoSite, Inc

Echocardiography
ContextVision AB
Esaote North America
Hitachi Medical Systems America, Inc
Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL)
Philips Healthcare
Siemens Medical Solutions USA, Inc
SonoScape Company, Ltd
SonoSite, Inc

Handheld
Esaote North America
GE Healthcare
Medison America, Inc
SonoScape Company, Ltd
SonoSite, Inc
Zonare Medical Systems, Inc

Harmonic Imaging
Esaote North America
GE Healthcare
Hitachi Medical Systems America, Inc
Medison America, Inc
Philips Healthcare
Siemens Medical Solutions USA, Inc
SonoScape Company, Ltd
SonoSite, Inc
Intracavitary
- Esaote North America
- Hitachi Medical Systems America, Inc
- Philips Healthcare
- SonoScape Company, Ltd
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

Laparoscopic
- Hitachi Medical Systems America, Inc
- SonoScape Company, Ltd
- Ultrasonix Medical Corporation

Obstetric/Gynecologic
- ContextVision AB
- Esaote North America
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Company, Ltd
- SonoSite, Inc
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

Preowned
- GE Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Company, Ltd
- Zonare Medical Systems, Inc

Real-time Compound Imaging
- Esaote North America
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Company, Ltd
- SonoSite, Inc
- SuperSonic Imaging, Inc
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation

Refurbished
- SonoScape Company, Ltd

Small Parts
- ContextVision AB
- Esaote North America
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Company, Ltd
- SonoSite, Inc

Three-Dimensional
- ContextVision AB
- Esaote North America
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Company, Ltd

Transcranial
- Esaote North America
- GE Healthcare
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Company, Ltd
- SonoSite, Inc
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

Ultrasonic Holography
- SonoScape Company, Ltd
- Ultrasonix Medical Corporation

Urology
- Esaote North America
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Company, Ltd
- SonoSite, Inc

Veterinary
- Esaote North America
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Company, Ltd
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

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- GE Healthcare
- Siemens Medical Solutions USA, Inc
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