AMERICAN INSTITUTE OF ULTRASOUND IN MEDICINE

2008
Sail in the Right Direction

Final Program

The association for medical ultrasound
aium
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Note: Circles correspond to color-coded pages.

Endowment for Education and Research grant recipient

Courses that will be videotaped
CDs for Specialists,  
CDs for Patients

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Connects directly to your DICOM-capable ultrasound device - quickly creates high-quality CDs including Color Doppler and 3D images.

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(866) 767-6226 • www.sorna.com
**Schedule at a Glance**

**Wednesday, March 12, 2008**
- 6:00 AM–4:15 PM: Registration Open
- 7:00 AM–8:00 AM: Preconvention Breakfast
- 8:00 AM–5:30 PM: Preconvention Program
- 12:00 PM–1:00 PM: Preconvention Lunch
- 12:00 PM–4:30 PM: Exhibit Hall Open
- 3:00 PM–4:00 PM: Refreshment Break
- 3:00 PM–7:15 PM: Professional Interest Section Meetings
- 7:30 PM–9:30 PM: Presidential Reception for New Members and Leadership (by invitation only)

**Thursday, March 13, 2008**
- 6:00 AM–3:30 PM: Registration Open
- 7:00 AM–8:00 AM: Meet-the-Professor Sessions
- 8:15 AM–9:45 AM: Categorical Courses
- 10:00 AM–11:30 AM: Scientific Sessions
- 10:00 AM–11:30 AM: Just Images Session
- 11:00 AM–3:00 PM: Exhibit Hall Open
- 11:45 AM–12:45 PM: Meet-the-Professor Sessions
- 11:45 AM–12:45 PM: Lunch in the Exhibit Hall
- 12:45 PM–1:45 PM: Break in the Exhibit Hall
- 1:45 PM–3:15 PM: Categorical Courses
- 3:30 PM–5:30 PM: Plenary Session: Awards and Entertainment
- 3:30 PM–7:15 PM: Professional Interest Section Meetings
- 7:30 PM–9:30 PM: Opening Reception in the Exhibit Hall

**Friday, March 14, 2008**
- 6:30 AM–4:30 PM: Registration Open
- 6:45 AM–7:45 AM: Meet-the-Professor Sessions
- 8:00 AM–9:30 AM: Categorical Courses
- 9:30 AM–10:15 AM: Professional Interest Section Meetings
- 9:30 AM–4:30 PM: Exhibit Hall Open
- 9:30 AM–10:30 AM: Refreshment Break
- 10:30 AM–12:00 PM: Scientific Sessions
- 10:30 AM–12:00 PM: New Investigator Session
- 12:15 PM–1:15 PM: Meet-the-Professor Sessions
- 12:15 PM–1:15 PM: Scientific Poster Discussion
- 1:30 PM–3:30 PM: Categorical Courses
- 3:30 PM–4:30 PM: Refreshment Break
- 4:30 PM–5:30 PM: Scientific Sessions
- 4:30 PM–5:30 PM: Just Images Session
- 7:30 PM–11:00 PM: Leadership Banquet (by invitation only)

**Saturday, March 15, 2008**
- 6:30 AM–5:00 PM: Registration Open
- 7:00 AM–8:00 AM: Meet-the-Professor Sessions
- 8:15 AM–10:15 AM: Categorical Courses
- 8:15 AM–10:15 AM: Accreditation “Getting Started” Workshop
- 9:30 AM–1:30 PM: Exhibit Hall Open
- 10:15 AM–11:15 AM: Refreshment Break
- 11:15 AM–12:15 PM: Film Panel Sessions
- 12:30 PM–1:30 PM: Meet-the-Professor Sessions
- 12:30 PM–1:30 PM: Scientific Poster Discussion
- 1:45 PM–3:15 PM: Categorical Courses
- 3:15 PM–3:30 PM: AIUM Business Meeting
- 3:30 PM–5:00 PM: Scientific Sessions
- 3:30 PM–5:00 PM: Just Images Session
- 5:15 PM–8:30 PM: Board of Governors Meeting

**Sunday, March 16, 2008**
- 7:00 AM–11:00 AM: Board of Governors Meeting continued
Not an AIUM Member?

Join the AIUM to begin receiving all of the benefits of membership, including:

- A subscription to the Journal of Ultrasound in Medicine (JUM) and access to the journal’s content at JUM Online;
- FREE CME credits through online submission of JUM self-study tests;
- A subscription to Sound Waves, the newsletter of the AIUM;
- Discounted registration fees on educational opportunities, including the AIUM Annual Convention and Preconvention Program and postgraduate courses;
- Discounts on all AIUM products, including publications, CME video programs, and patient pamphlets;
- And more . . .

Visit the AIUM Resource Center, located at Lobby Lounge West • North Tower/Lobby Level, for more information about how to become a member, or join online at the AIUM website, www.aium.org.
General Information

Committee Office Hours
New York · North Tower/Marriott Pavilion/Lobby Level
Wednesday, March 12 7:30 AM–4:15 PM
Thursday, March 13 7:30 AM–3:30 PM
Friday, March 14 7:30 AM–4:30 PM
Saturday, March 15 7:30 AM–5:00 PM

Registration Hours
Lobby Lounge West, North Tower/Lobby Level
Wednesday, March 12 6:00 AM–4:15 PM
Thursday, March 13 6:00 AM–3:30 PM
Friday, March 14 6:30 AM–4:30 PM
Saturday, March 15 6:30 AM–5:00 PM

Exhibit Registration Hours
Lobby Lounge West, North Tower/Lobby Level
Tuesday, March 11 7:30 AM–5:00 PM
Wednesday, March 12 7:30 AM–4:45 PM
Thursday, March 13 8:00 AM–5:45 PM
Friday, March 14 9:00 AM–4:30 PM
Saturday, March 15 9:00 AM–12:00 PM

Exhibit Hall Hours
Exhibit Hall · North Tower/Marriott Pavilion/Level 1
Wednesday, March 12 12:00 PM–4:30 PM
Thursday, March 13 11:00 AM–3:00 PM
Opening Reception 5:30 PM–7:30 PM
Friday, March 14 9:30 AM–4:30 PM
Saturday, March 15 9:30 AM–1:30 PM

AIUM Resource Center
Lobby Lounge West, North Tower/Lobby Level
Wednesday, March 12 8:00 AM–4:15 PM
Thursday, March 13 8:00 AM–3:30 PM
Friday, March 14 8:00 AM–4:30 PM
Saturday, March 15 8:00 AM–5:00 PM

Hotel Information
San Diego Marriott Hotel and Marina
333 W Harbor Dr
San Diego, CA 92101
Phone: 619-234-1500
Fax: 619-234-8678

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 services to attendees.
General Information

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

Business Center
The San Diego Marriott Hotel and Marina has a business center located in the South Tower, Level 3. Please check with the hotel for business hours.

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

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

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 set-up and dismantlement period.

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

Convention Registration Fees
Convention registration fees cover attendance at all educational sessions held Thursday, March 13, through Saturday, March 15, 2008 (with exception of the Meet-the-Professor sessions, which have an additional fee). Fees must be paid at the time of registration.

Meet-the-Professor Registration
Registration for Meet-the-Professor (MTP) sessions is on a first-come, first-served basis. There is no waiting list for sold-out sessions. Tickets for entrance to the MTP sessions will be issued on-site with your registration materials.

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

Spouse/Guest
You may register a spouse/guest for $75, which provides access to the Exhibit Hall only.

Cancellations
Written cancellations must have been received by January 4, 2008, in order to receive a refund of meeting registration fees minus a $75 administrative fee. Written cancellations received after January 4, 2008, will not receive a refund. Written cancellations must be received by the AIUM via fax or mail.

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

Smoking
The San Diego Marriott Hotel and Marina is a 100% smoke-free environment.

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

What to Wear
Attire at the 2008 AIUM Annual Convention and Preconvention will be casual. Feel free to dress comfortably in slacks, polo shirts, and, most importantly, comfortable shoes. Please note that all meeting rooms are air-conditioned, so a sweater or jacket is advisable.
Educational Opportunities

Course Format Descriptions

- **Preconvention Program**—Attend courses providing in-depth coverage of ultrasound issues.
- **Categorical Courses**—Choose from a variety of specialty topic courses in ultrasound presented by distinguished professionals in the field.
- **Hands-on Courses**—Participate in courses covering abdominal vascular ultrasound, procedural ultrasound in the critically ill patient, shoulder ultrasound, ultrasound-guided biopsies and intervention, and update in transcranial Doppler ultrasound.
- **Meet-the-Professor (MTP) Sessions**—Participate in small-group sessions led by renowned ultrasound professionals. Space is limited. Register early as these sessions sell out quickly. Meet-the-Professor sessions are not included in the convention registration fee. Morning sessions cost an additional $25 and include coffee; afternoon sessions cost an additional $65 and include a light lunch.
- **Scientific Sessions**—Learn about the latest case reports and research in ultrasound. Topics include:
  - Basic Science
  - Cardiovascular Ultrasound
  - Clinical Tissue Characterization
  - Emergency Ultrasound
  - Fetal Echocardiography
  - General Abdominal Ultrasound
  - Genitourinary Ultrasound
  - Gynecologic Ultrasound
  - High-Frequency Clinical and Preclinical Imaging
  - Interventional/Intraoperative Ultrasound
  - Musculoskeletal Ultrasound
  - Obstetric Ultrasound
  - Pediatric Ultrasound
  - Sonography Practice
- **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.
- **Scientific Poster Exhibits**—View the latest research in progress presented in a visual format.
- **Accreditation “Getting Started” Workshop**—Learn how easy it is to complete the ultrasound practice accreditation process and get answers to the most commonly asked questions regarding accreditation.
- **Case-of-the-Day Challenges**—Test your abilities each day by diagnosing unique case studies.
- **Professional Interest Section Meetings**—Meet with other ultrasound professionals who share your interests, plan future AIUM educational programs, and discuss the issues in your specialty.
# Committee Meeting Schedule

**Tuesday, March 11, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 11:00 AM</td>
<td>Output Standards Subcommittee</td>
<td>Torrey · North Tower/Lobby Level</td>
</tr>
<tr>
<td>2:00 PM – 7:00 PM</td>
<td>Technical Standards Committee</td>
<td>Torrey · North Tower/Lobby Level</td>
</tr>
</tbody>
</table>

**Wednesday, March 12, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 2:00 PM</td>
<td>Bioeffects Committee</td>
<td>Torrey · North Tower/Lobby Level</td>
</tr>
<tr>
<td>12:00 PM – 1:00 PM</td>
<td>Annual Convention Committee</td>
<td>Manchester · North Tower/Lobby Level</td>
</tr>
<tr>
<td>3:00 PM – 6:00 PM</td>
<td>IEC Subcommittee</td>
<td>Torrey · North Tower/Lobby Level</td>
</tr>
<tr>
<td>7:30 PM – 9:00 PM</td>
<td>Presidential Reception for New Members and Leadership</td>
<td>Suite 2540 · South Tower</td>
</tr>
</tbody>
</table>

**Thursday, March 13, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 9:30 AM</td>
<td>Finance and Executive Committee</td>
<td>Manchester 1 · North Tower/Lobby Level</td>
</tr>
<tr>
<td>10:00 AM – 11:00 AM</td>
<td>Postgraduate Course Committee</td>
<td>Torrey 2 · North Tower/Lobby Level</td>
</tr>
<tr>
<td>10:00 AM – 11:30 AM</td>
<td>Membership Committee</td>
<td>Manchester 2 · North Tower/Lobby Level</td>
</tr>
<tr>
<td>1:45 PM – 3:15 PM</td>
<td>Endowment for Education and Research Committee</td>
<td>Manchester 2 · North Tower/Lobby Level</td>
</tr>
</tbody>
</table>

**Friday, March 14, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Journal of Ultrasound in Medicine Editorial and Advisory Board Breakfast</td>
<td>Manchester · North Tower/Lobby Level</td>
</tr>
<tr>
<td>8:30 AM – 10:00 AM</td>
<td>Continuing Medical Education Committee</td>
<td>Torrey 2 · North Tower/Lobby Level</td>
</tr>
<tr>
<td>10:30 AM – 12:00 PM</td>
<td>Clinical Standards Committee</td>
<td>Torrey 3 · North Tower/Lobby Level</td>
</tr>
<tr>
<td>12:15 PM – 1:15 PM</td>
<td>Presidential Advisory Council</td>
<td>Suite 2540 · South Tower</td>
</tr>
<tr>
<td>3:30 PM – 5:00 PM</td>
<td>Council on Sections</td>
<td>Manchester · North Tower/Lobby Level</td>
</tr>
<tr>
<td>3:45 PM – 5:30 PM</td>
<td>Ultrasound Practice Accreditation Committee</td>
<td>Torrey 2 · North Tower/Lobby Level</td>
</tr>
</tbody>
</table>

**Saturday, March 15, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM – 9:00 AM</td>
<td>Exhibit Advisory Committee</td>
<td>Torrey 1 · North Tower/Lobby Level</td>
</tr>
<tr>
<td>1:45 PM – 3:00 PM</td>
<td>Executive Committee</td>
<td>Anaheim · North Tower/Marriott Pavilion/Lobby Level</td>
</tr>
</tbody>
</table>
### Professional Interest Section Meeting Schedule

#### Wednesday, March 12, 2008

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–3:45 PM</td>
<td>Cardiovascular Ultrasound Section</td>
<td>Los Angeles · South Tower/Level 4</td>
</tr>
<tr>
<td></td>
<td>Fetal Echocardiography Section</td>
<td>Rancho Las Palmas · South Tower/Level 4</td>
</tr>
<tr>
<td></td>
<td>Interventional/Intraoperative Ultrasound Section</td>
<td>Newport Beach · South Tower/Level 4</td>
</tr>
<tr>
<td>4:00 PM–4:45 PM</td>
<td>General and Abdominal Ultrasound Section</td>
<td>Irvine · South Tower/Level 4</td>
</tr>
<tr>
<td></td>
<td>High-Frequency Clinical and Preclinical Imaging Section</td>
<td>Warner Center · South Tower/Level 4</td>
</tr>
<tr>
<td>5:00 PM–5:45 PM</td>
<td>Emergency and Critical Care Section</td>
<td>San Diego C · North Tower/Lobby Level</td>
</tr>
<tr>
<td></td>
<td>Musculoskeletal Ultrasound Section</td>
<td>San Diego A · North Tower/Lobby Level</td>
</tr>
<tr>
<td>5:30 PM–6:15 PM</td>
<td>Gynecologic Ultrasound Section</td>
<td>Marriott Hall 4 · North Tower/Marriott Pavilion/Lobby Level</td>
</tr>
<tr>
<td></td>
<td>Neurosonology Section</td>
<td>San Diego B · North Tower/Lobby Level</td>
</tr>
<tr>
<td>6:30 PM–7:15 PM</td>
<td>Obstetric Ultrasound Section</td>
<td>Marriott Hall 4 · North Tower/Marriott Pavilion/Lobby Level</td>
</tr>
<tr>
<td></td>
<td>Pediatric Ultrasound Section</td>
<td>San Diego B · North Tower/Lobby Level</td>
</tr>
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</table>

#### Thursday, March 13, 2008

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>Business Meeting</td>
<td>Torrey 1 · North Tower/Lobby Level</td>
</tr>
<tr>
<td>5:15 PM–8:00 PM</td>
<td>Board of Governors Meeting</td>
<td>Manchester · North Tower/Lobby Level</td>
</tr>
</tbody>
</table>

#### Sunday, March 16, 2008

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM–11:00 AM</td>
<td>Board of Governors Meeting</td>
<td>Manchester · North Tower/Lobby Level</td>
</tr>
</tbody>
</table>
Continuing Medical Education (CME) Credit Information

Accreditation Statement
The American Institute of Ultrasound in Medicine (AIUM) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. AIUM educational activities are planned and implemented in accordance with the ACCME Essential Areas and Elements.

Designation Statement
The AIUM designates the 2008 Preconvention Program for a maximum of 7.5 AMA PRA Category 1 Credits™ applicable toward the American Medical Association (AMA) Physician’s Recognition Award (PRA). The AIUM designates the 2008 Annual Convention for a maximum of 19.5 AMA PRA Category 1 Credits™. The AIUM designates the 2008 Meet-the-Professor Sessions for a maximum of 6 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

American Registry for Diagnostic Medical Sonography
Sonographers may use credits earned from AIUM educational activities to maintain their certification with the American Registry for Diagnostic Medical Sonography (ARDMS). The ARDMS accepts AMA PRA Category 1 Credits™.

American Registry of Radiologic Technologists
The AIUM is a Recognized Continuing Education Evaluation Mechanism (RCEEM) for the American Registry of Radiologic Technologists (ARRT). AIUM educational activities are approved by the AIUM for ARRT Category A Credit.

Documenting CME Credits
The AIUM provides CME certificates to those who have participated in an AIUM educational activity. The AIUM does not submit credits to regulating bodies or certifying organizations on behalf of the participant. It is the participant’s responsibility to submit proof of credits on his or her own behalf.

Disclosure Policy
The AIUM is accredited by the ACCME to provide AMA PRA Category 1 Credits™ to physicians. As such, the AIUM must ensure balance, independence, and scientific rigor in all of its sponsored activities. To this end, the AIUM requires anyone who is in a position to control the content of an educational activity, including AIUM officers, board members, committee members, faculty, and AIUM staff, to disclose all relevant financial interest(s) or other relationship(s) with any commercial interest. Financial interest or other relationships may include such things as grants or research support, employment, consultancies, major stock holdings, membership in a speakers bureau, etc. The ACCME defines “relevant financial relationships” as financial relationships in any amount occurring within the past 12 months that create a conflict of interest (SCS2.1). The ACCME considers relationships of the person involved in the CME activity to include financial relationships of a spouse or partner.

Alternative or “Off-Label” Product Policy
The AIUM requires anyone who is in a position to control the content of an educational activity, including AIUM officers, board members, committee members, faculty, and AIUM staff, to disclose their endorsement or use of any alternative or “off-label” product and/or treatment technologies. Individuals are advised that they must inform the audience if their articles or presentations include any discussion of off-label product use. AIUM educational activities provide a forum to educate and promote the dissemination of new ideas, but the AIUM does not necessarily endorse the findings or conclusions reported by presenters and authors. The intent of this disclosure is to provide learners with information to aid them in making their own judgments.

Conflict of Interest Policy
All individuals who are in a position to control the content of an educational activity, including AIUM officers, board members, committee members, faculty, and AIUM staff, are required to complete a disclosure form. These forms will be reviewed for potential conflicts of interest. All potential conflicts of interest must be identified and managed by the chair of the CME Committee or designated AIUM official prior to the educational activity. Should it be determined that a conflict of interest exists as a result of financial relationship(s) or other relationship(s), the individual will be contacted by the AIUM, and methods to manage the conflict will be discussed. A form will be available to expedite this process. In addition, individuals involved in planning will be asked to recuse themselves from any portion of the planning where a bias might exist.
Faculty Disclosures

Listed below are AIUM faculty members who disclosed that they have relevant relationship(s) with commercial interest(s) that may create a conflict of interest. Faculty members are instructed to advise the AIUM if new financial relationships with commercial interests arise since completing their disclosure forms. Described below each name is the commercial interest(s) and the nature of the financial relationship(s).

Abramowicz, Jacques, MD
   Philips Medical Systems: equipment loan, consultant (unpaid)
   Zonare: equipment loan, consultant (unpaid)
Abu-Yousef, Monzer, MB, BCh, ABR
Abuhamad, Alfred, MD
Achiron, Reuven, MD
Ackerman, Susan, MD
Adams, Janet
Adhikari, Srikar, MD
Adler, Ronald, MD, PhD
Akhtar, Nila, MD
   Toshiba: honoraria, Dean Nakamoto, MD, speaker
Alizad, Azra, MD
Allen, Lisa, BS, RDMS, RDCS, RVT, APS
Andreotti, Rochelle, MD
Azar, Nami, MD
Bahtiyar, Mert, MD
Bailey, Michael, PhD
Barnewolt, Carol, MD
Barrouk, Emile, MS
Baschat, Ahmet, MD
Bauer, Samuel, MD
Bault, Jean-Philippe, MD
Benacerraf, Beryl, MD
Bendick, Phillip, PhD
Benoit, Richard, MD, MPH
Benson, Carol, MD
Bergin, Diane, MD
Bhatt, Shweta, MD
Bigelow, Timothy, PhD
Blaivas, Michael, MD, RDMS
   Emergency Ultrasound Consultants: consulting fees
   Philips Medical Systems: consulting fees, speaker
   SonoSite: consulting fees
Blanchette Porter, Misty, MD
Blebea, John, MD
Blumenfeld, Yair, MD
Bokhari, Jamal, MD
Boniface, Keith, MD
   SonoSite: honoraria, speaker
Boote, Evan, PhD
Bornstein, Eran, MD
Bouffard, Antonio, MD
Brandon, Catherine, MD
Brown, Douglas, MD
Brown, Michele, MD
Brown, William, III, MD
   Philips Medical Systems: consulting fees
Browne, Jean-Laurent, MD
Bulas, Dorthy, MD
   Philips Medical Systems: equipment loan, consultant
Burd, Irina, MD, PhD
Burns, Peter, PhD
Campbell, Colleen, MD
Cardinal, Etienne, MD
Carmona, Susanna, AS
Carson, Paul, PhD
Chan, Ellen, BSc
Chen, Hao, MS
Chen, Shigoo, PhD
Chiu, Hong-Jen, MD
Chong, Wui, MBBS
Church, Charles, PhD
Coakley, Fergus, MD
Cohen, Harris, MD
Coley, Brian, MD
   Philips Medical Systems: equipment upgrade, evaluation
   Siemens Medical Solutions: honoraria, Advisory Board member
   Zonare: equipment, evaluation
Cooperberg, Peter, MD, CM, FRCPC
Coquel, Philippe, MD
Cosgrove, David, MA, MSC
Courtney, Brian, MD, MSEE
   Colibri Technologies Inc: stock, royalties, founder
Czarnota, Gregory, PhD, MD
D’Agostini, Deborah, RDMS
Dahiya, Nirvikar, MD
Darge, Kassa, MD
Dasgupta, Shreedevi, MS
Dave, Jaydev, BE
GE Healthcare: equipment loan, contrast supply, research grant
Optison: contrast imaging
Dean, Anthony, MD, RDMS
SonoSite: financial consultant
DeJong, M. Robert, RDMS, RVT
DeFranco, Emily, DO
Detti, Laura, MD
DeVore, Gregory, MD
Dickson, Pamela, MD
DiPietro, Michael, MD
Dogra, Vikram, MD
Doverspike, Gene, RVT
GE Healthcare: consulting fees
Viasys Healthcare: consulting fees
Drennan, Kathryn, MD
Drose, Julia, BA, RT, RDMS, RVT, RDCS
Dudarewicz, Lech, MD
du Plessis, Adre, MD
Emelianov, Stanislav, PhD
Evangelisto, Amy, MD
Facco, Francesca, MD
Fang, Yu Ming Victor, MD
Fasli, Golnaz, MSc
Feleppa, Ernest, PhD
Spectrasonics, Inc: minor shareholder
Ferrara, Katherine, PhD
Fessell, David, MD
Filly, Roy, MD
Siemens Medical Solutions: consulting fees
Fleischer, Arthur, MD
Fleming, Audrey, RDMS, RVS
Healthcare Providers Service Organization: professional liability coverage
Flores, Victor, MD
Fong, Katherine, MBBS
Fordham, Lynn, MD
Forsberg, Flemming, PhD
GE Healthcare: drug supply, research grant
Regeneron Pharmaceuticals: drug supply, research contract
Siemens Medical Solutions: consulting fees, expert witness
Toshiba Medical Systems: equipment loan, consulting fees, research grant, expert witness
Foster, F. Stuart, PhD
VisualSonics: consulting fees, research support, stock, chief scientific officer
Fox, J. MD, RDMS
SonoSite: equipment loan, speaker
Frisova, Veronika, MD
Fujii, Yasutomo, MD, PhD
Fukunari, Nobuhira, MD, PhD
Furuichi, Yoshihiro, MD
Galan, Henry, MD
Garani, Zsolt, MD
Garr, Brian, MD
GE Healthcare: equipment loan, consultant, speaker
Gesteland, Katherine, MD, MSPH
Ghate, Sujata, MD
Gindes, Liz, MD
Glanc, Phyllis, MD, FRCP
Goertz, David, PhD
Goldberg, Barry, MD
GE Healthcare: research support, contracted research
Goldstein, Steven, MD
Akrad Labs, a Cooper Company: honoraria, consultant
Cook Ob/Gyn: honoraria, consultant
Eli Lilly: honoraria, Advisory Board
GlaxoSmithKline: honoraria, Advisory Board
Merck: honoraria, Advisory Board
Pfizer: honoraria, Advisory Board
SonoSite: honoraria, director
Grace, Daniel, MD
Gray, Diana, MD
Greenleaf, James, PhD
Grochal, Frantisek, MD
Haaga, John, MD
Hall, Timothy, PhD
Siemens Medical Solutions: honoraria for educational speeches, speaker, equipment loan, technical support, principal investigator on research agreement
Hamper, Ulrike, MD, MBA
Hanif, Farhan, MD
Hashimoto, Beverly, MD
Philips Medical Systems: sonographer donation, equipment testing
Siemens Medical Solutions: sonographer donation, Medical Advisory Board, equipment testing
Helfgott, Andrew MD, MHA
Cytc Medical: honorarium, speakers bureau
Hereter, Lourdes, MD
Hertzberg, Barbara, MD
Hobekia, Elie, MD
Holland, Christy, PhD
Holland, Mark, PhD
Hornberger, Lisa, MD
Faculty Disclosures

Houle, Helene, BA, RDCS, RDMS, RVT
Siemens Medical Solutions: employee

House, Michael, MD

Hoyt, Kenneth, PhD
Hughes, Sharon, BS, RDMS
Hwang, James, MD, RDMS

Philips Medical Systems: equipment loan, consultant

Ichimura, Shigeki, MD
Irshad, Abid, MD
Jacobson, Jon, MD
Jamadar, David, MD
Jeaney, Philippe, MD, PhD
Jiang, Jingfeng, PhD
Johnson, Ashley, MD
Jones, Alan, MD
Jones, Barbara
Kahn, Daniel, MD, PhD
Kaur, Satinder, MD
Kim, Bohyun MD
Kim, Mi Suk, MD
Kimura, Bruce, MD

Siemens Medical Solutions: unrestricted equipment grant
SonoSite: unrestricted equipment grant, speaker

Kitamura, Hiroshi, MD
Klibanov, Alexander, PhD
Kline-Fath, Beth, MD
Koplewitz, Benjamin, MD
Krakow, Deborah, MD
Krauss, Steve, MD
Kremkau, Frederick, PhD
Kurtz, David, BS
Lai, Di, MS
Lafier-Narin, Sherelle, MD
LeCarpentier, Gerald, PhD
Lee, David, MD
Lee, Debbie, BA
Lee, Wesley, MD

GE Healthcare: limited research support, consultant

Leete, Juliana, MD
Leung, Vivian Yee Fong, PhD
Levine, Deborah, MD
Levitov, Alexander, MD
Lev-Toaff, Anna, MD
Lichtenstein, Daniel, MD
Lim-Dunham, Jennifer, MD
Liteplo, Andrew, MD, RDMS
Lobo, Alan, MD
Lockhart, Mark, MD, MPH
Loggans, Susan, ESQ
Loveless, Mary, BS
Lu, Zheng, PhD
Lyshchik, Andrej, MD, PhD
Lyshchik, Andrej, MD, PhD
Madrano, Beatrice, MD, RVT
Madson, Ernest, PhD
Mangrulkar, Vaibhav, MD
Marcelino, Antonio, MD
Martinez, Brandon, MD
Manson, William, MD
Mast, T. Douglas, PhD
Mattrey, Robert, MD
Maurice, Roch, PhD
McDowell, Jennifer, MM, RT, RVT, RDMS

GE Healthcare: research grant, researcher

McGahan, John, MD
McKinney, Kristin, MD
Meaders, Eric, MAED, RDMS, RVT
Medford, William, RDMS
Meizner, Israel, MD
Mertone, Daniel, BS, RDMS

AIUM: Endowment for Education and Research grant support, grant recipient

Miller, Douglas, PhD
Mirza, Fadi, MD
Moore, Christopher, MD, RDMS, RDCS
Moore, Thomas, MD
Muratore, Robert, PhD
Nakamoto, Dean, MD

Toshiba Medical Systems: honorarium, speaker

Nazarian, Levon, MD
Neal, Colleen, MD
Nebecker, Jakob, BS
Needleman, Laurence, MD
Nelson, LaFatha, MD
Nelson, Mathew, DO, RDMS
Neumyer, Marsha, BS, RVT
Nightingale, Kathryn, PhD

Siemens Medical Solutions: equipment loan, technical support, honorarium, laboratory principal investigator, invited speaker

Noble, Vicki, MD, RDMS
Nyberg, David, MD
O’Boyle, Mary, MD
O’Brien, William, PhD
O’Hara, Sara, MD

Amirsys: author royalties, stock
Toshiba Medical Systems: honoraria, demo equipment, speakers bureau

O’Keefe, David
Odibo, Anthony, MD, MSCE
Ojeda-Fournier, Haydee, MD
Palmeri, Mark, MD, PhD

Siemens Medical Solutions: equipment discounts, researcher (not directly for Siemens)
Paltiel, Harriet, MD, CM
Philips Medical Systems: equipment loan, researcher
Papanicolau, Naum, BSc
Parker, Kevin, PhD
GE Healthcare: research grant, coprincipal investigator
Patel, Bhargavi, MD
Patel, Jagruti, RDMS
Persutte, Wayne, PhD, MS, CRA, RDMS
Picconi, Jason, MD, PhD
Platt, Lawrence, MD
Pretorius, Dolores, MD
Philips Medical System: honoraria, consulting fees, speaker
Puscheck, Elisabeth, MD, MS
Rao, Christopher, MD, RDMS
Rajakentta, Tina, MSc
Ralls, Philip, MD
Ranieri, Shawn, BSc
Rapp, Cindy, BS, RDMS
Ethicon: honoraria, speaker
GE Healthcare: honoraria, speaker
Philips Medical Systems: honoraria, speaker
Zonare: honoraria, speaker
Razumovsky, Alexander, PhD
For-profit company: salary, full-time employee
Reach, John, MD, MSc
Piedmont Orthopedic Society: unrestricted educational grant, principal investigator
SonoSite: travel honoraria, speaker
Robbin, Michelle, MD
Rochelson, Burton, MD
Rottem, Shraga, MD, DSc
Rubens, Deborah, MD
Rubin, Jonathan, MD, PhD
Philips Medical Systems: equipment support, consultant
Rundek, Tatjana, MD
Saad, Wael, MD
Salkowski, Lonie, MD
Singhvi, Narendra, MSEE
Focus Surgery: salary, stock, president, chief executive officer, founder
Sato, Takahiro, MD
Scoutt, Leslie, MD
Semaj, Flamur, MD
Shankar, P. Mohanan, PhD
Sheppard, Celeste, MD
Sherrill, Jennifer, MS
Shiver, Stephen, MD
Shwayder, James, MD, JD
Cook Ob/Gyn: future royalties, coinventor of sonobiopsy catheter
Sierzenski, Paul, MD, RDMS
Skiansky, Mark, MD
Philips Medical Systems: consulting fees
Smith, Jay, MD
Sofka, Carolyn, MD
Sohaey, Roya, MD
Solomon, Julia, MD
Sorrentino, Fortunato, MD
Spitz, Jean, MPH, RDMS
Stratmeyer, Melvin, PhD
Strickland, Diana, BS, BA, RDMS, RDCS
Sugai, Michihiro, MD
Taffel, Myles, MD
Takeuchi, Shinichi, DEng
Tayal, Vivek, MD
Philips Medical Systems: research equipment, consultant
Siemens Medical Solutions: research equipment, consultant
Ultrasonix: research equipment, consultant
Tchorz, Kathryn, MD, RDMS, FACS
Teeffy, Sharlene, MD
Tegeler, Charles, MD
Telegraphy, Shpetim, MD
Tetrokalashvili, Maggie, MD
Thiele, Ralf, MD
Amgen: honoraria, speaker
Centocor: honoraria, speaker
Timor-Tritsch, Ilan, MD
Tran, Leanne, JD, MD
Tublin, Mitchell, MD
Tuthill, Theresa, PhD
van der Steen, AFW, MD, PhD
van Holsbeeck, Marnix, MD
Varghese, Tony, PhD
Wang, Eileen, MD
Warsof, Steven, MD
Washko, Patrick, BS, RT, RDMS, RVT
Wax, Joseph, MD
Wear, Keith, PhD
Weekes, Anthony, MD, RDCS, RDMS
Wolfson, Robert, MD, PhD
Wu, Andrew, MD
Yamada, Masahiko, MD
Yeo, Lami, MD
Yucel, Cem, MD
Zalud, Ivica, MD, PhD
Siemens Medical Solutions: equipment loan, researcher
Alternative or “Off-Label” Product Policy
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Dave, Jaydev, BE
Optison: contrast imaging

Fleischer, Arthur, MD
Definity: ovarian contrast-enhanced ultrasound imaging

Forsberg, Flemming, PhD
Optison: monitor angiogenesis
Encore PV: carotid 4-dimensional ultrasound imaging

Goldberg, Barry, MD
Sonazoid: research

Haaga, John, MD
Blood products: local injection of blood products

Lee, Wesley, MD
4DView software: fractional limb volume measurements

Lyshchik, Andrej, MD, PhD
Targeted ultrasound contrast agent: small-animal imaging

Marcelino, Antonio, MD
Bristol Myers Squibb: Definity, echo-enhanced contrast agent; perfluorocarbon exposed dextrose albumin, echo-enhanced contrast agent

Nakamoto, Dean, MD
Blood products: local injection of blood products

Paltiel, Harriet, MD, CM
Definity: ultrasound contrast agent

Saad, Wael, MD
Metal sills (generic/no brand name will be used): silling biopsy tracts such as transhepatic tracts
Disclosure of Commercial Support for the 2008 AIUM Annual Convention

The AIUM promotes improvement in health care and not the proprietary concerns of commercial interests.* As such, the AIUM has full control of the disposition and disbursement of contributions received from commercial supporters of the 2008 AIUM Annual Convention.

Listed below are the names of the companies that provided commercial support (financial or in-kind contributions) for the 2008 AIUM Annual Convention and the nature of the support they provided.

<table>
<thead>
<tr>
<th>Company</th>
<th>Support Provided</th>
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<tbody>
<tr>
<td>GE Healthcare</td>
<td>Plenary Session: Awards and Entertainment</td>
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<td>Medison America, Inc</td>
<td>Lanyards</td>
</tr>
<tr>
<td>Parker Laboratories, Inc</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>Philips Medical Systems</td>
<td>In-room media, Tote bags</td>
</tr>
<tr>
<td>R4, LLC</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>Siemens Medical Solutions USA, Inc</td>
<td>Pens, New Investigator Award</td>
</tr>
<tr>
<td>SonoSite, Inc</td>
<td>Presidential Reception for New Members and Leadership</td>
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<tr>
<td>Sorna Corporation</td>
<td>Room key cards</td>
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<tr>
<td>Sound Technology, Inc</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>Toshiba America Medical Systems, Inc</td>
<td>Wireless Internet café</td>
</tr>
<tr>
<td>Zonare Medical Systems, Inc</td>
<td>Notepads</td>
</tr>
</tbody>
</table>

**In-kind Donations**

- Aloka Ultrasound
- ATS Laboratories, Inc
- Blue Phantom Ultrasound Phantoms
- Biosound Esaote, Inc
- CIVCO Medical Solutions
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Parker Laboratories, Inc
- Philips Medical Systems
- Siemens Medical Solutions, USA, Inc
- SonoSite, Inc
- Spencer Technologies
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

**Tote Bag Inserts**

- Fetal & Women’s Center of Arizona
- Genetic Disease Screening Program—California Department of Public Health
- Scripps Health Recruitment
- Sorna Corporation
- taberna pro medicum GmbH
- Zonare Medical Systems, Inc

**Preliminary Program and Final Program Advertisements**

- Digisonics, Inc
- GE Healthcare
- Medison America, Inc
- Parker Laboratories, Inc
- Sorna Corporation
- Zonare Medical Systems, Inc

**Educational Grants**

- Fetal Medicine Foundation USA
- GE Healthcare
- NTD Laboratories, a PerkinElmer Company
- Texas Children’s Hospital

*The Accreditation Council for Continuing Medical Education (ACCME) defines a commercial interest as any entity producing health care goods or services consumed by or used on patients. The ACCME does not consider providers of clinical services directly to patients to be commercial interests.*
### Schedule at a Glance

<table>
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<tr>
<th>Time</th>
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<tr>
<td>6:00 AM–4:15 PM</td>
<td>Registration Open</td>
</tr>
<tr>
<td>7:00 AM–8:00 AM</td>
<td>Preconvention Breakfast</td>
</tr>
<tr>
<td>8:00 AM–12:00 PM</td>
<td>Abdominal Vascular Disease</td>
</tr>
<tr>
<td>8:00 AM–12:00 PM</td>
<td>First-Trimester Screening: Nuchal Translucency Credentialing and More</td>
</tr>
<tr>
<td>8:00 AM–2:00 PM</td>
<td>Bioeffects Committee Meeting</td>
</tr>
<tr>
<td>8:00 AM–5:00 PM</td>
<td>Bedside Ultrasound in the Critically Ill and Injured Patient</td>
</tr>
<tr>
<td>8:00 AM–5:00 PM</td>
<td>The Stories Behind the Images: Obstetrics</td>
</tr>
<tr>
<td>8:00 AM–5:30 PM</td>
<td>Ultrasound in Reproductive Medicine and Infertility</td>
</tr>
<tr>
<td>12:00 PM–1:00 PM</td>
<td>Preconvention Lunch</td>
</tr>
<tr>
<td>12:00 PM–1:00 PM</td>
<td>Annual Convention Committee Meeting</td>
</tr>
<tr>
<td>12:00 PM–4:30 PM</td>
<td>Exhibit Hall Open</td>
</tr>
<tr>
<td>1:00 PM–5:00 PM</td>
<td>Musculoskeletal Ultrasound: Special Topics</td>
</tr>
<tr>
<td>1:00 PM–5:30 PM</td>
<td>Pediatric Essentials: Head to Toe</td>
</tr>
<tr>
<td>3:00 PM–6:00 PM</td>
<td>IEC Subcommittee Meeting</td>
</tr>
<tr>
<td>3:00 PM–7:15 PM</td>
<td>Professional Interest Section Meetings</td>
</tr>
<tr>
<td>7:30 PM–9:30 PM</td>
<td>Presidential Reception for New Members and Leadership (by invitation only)</td>
</tr>
</tbody>
</table>

**Presidential Reception for New Members and Leadership**

7:30 PM–9:30 PM

This event is by invitation only.

Supported by SonoSite
7:00 AM–8:00 AM
Preconvention Course Breakfast
Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

8:00 AM–12:00 PM
Abdominal Vascular Disease
Course Chair: Beatrice Madrazo, MD, RVT
San Diego A · North Tower/Lobby Level

Following this course, participants will be able to detail the methodology for evaluation of the normal, abnormal, and stented abdominal aorta; discuss evaluation of the normal hepatic vasculature; offer a comprehensive approach to hepatic vascular disease and shunts; and offer a comprehensive approach to renovascular hypertension.

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

8:00 AM–12:00 PM
First-Trimester Screening: Nuchal Translucency Credentialing and More
Course Chair: Celeste Sheppard, MD
San Diego B · North Tower/Lobby Level

Following this course, participants will be able to understand the technique of nuchal translucency measurement and its use in first-trimester screening for aneuploidy and recognize additional benefits of the 11- to 14-week scan.

Faculty
Celeste Sheppard, MD
Lawrence Platt, MD
Alfred Abuhamad, MD
Jean Spitz, RDMS

8:00 AM–5:00 PM
Bedside Ultrasound in the Critically Ill and Injured Patient
Course Chair: Christopher Moore, MD
San Diego C · North Tower/Lobby Level

This course is directed primarily toward practitioners who use (or are interested in using) ultrasound in the evaluation of patients with critical illness or injury. Although primarily geared toward emergency medicine and critical care physicians, it may be applicable to surgeons, anesthesiologists, radiologists, and sonographers who evaluate critically ill patients. The course will focus on applications of ultrasound in diagnosing and directing therapy in
patients with unexplained hypotension (shock) and dyspnea or respiratory failure. It will include a review of basic applications and an introduction to more advanced concepts in the sonographic evaluation of the heart, great vessels, and pleural spaces.

Faculty
Christopher Moore, MD
Michael Blaivas, MD, RDMS
Anthony Dean, MD, RDMS
James Hwang, MD, RDMS
Alan Jones, MD
Alexander Levitov, MD
Paul Sierzenski, MD, RDMS
Kathryn Tchorz, MD, RDMS
Anthony Weekes, MD, RDCS, RDMS

8:00 AM–5:00 PM
The Stories Behind the Images: Obstetrics
Course Chair: Philippe Jeanty, MD, PhD
Marriott Hall 3 · North Tower/Marriott Pavilion/Lobby Level

This course will present findings that are not commonly sought or recognized and demonstrate their clinical relevance. Different organ systems, anatomic findings, and variants will be reviewed. Participants will learn the importance of looking for other findings after detecting one finding and how to use the Online Mendelian Inheritance in Man database to screen and combine those findings. This course will be highly interactive, and the audience will have access to a response system for answering questions and interacting.

Faculty
Philippe Jeanty, MD, PhD
Jean Philippe Bault, MD
Philippe Coquel, MD
Lech Dudarewicz, MD
Veronika Frisova, MD
Frantisek Grochal, MD
Juliana Leite, MD
Irina Tihonenko, MD

8:00 AM–5:30 PM
Ultrasound in Reproductive Medicine and Infertility
Course Chair: Steven Goldstein, MD
Marriott Hall 4 · North Tower/Marriott Pavilion/Lobby Level

Following this course, participants will have learned how transvaginal ultrasound is a central portion of workup and treatment regimens in virtually every aspect of clinical reproductive medicine and infertility. This course is designed to address the specific and unique ultrasound issues confronting practitioners of this specialty.

Faculty
Steven Goldstein, MD
Misty Blanchette Porter, MD
Elizabeth Puscheck, MD, MS
James Shwayder, MD, JD
Ilan Timor-Tritsch, MD
12:00 PM–1:00 PM
Preconvention Lunch
Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

1:00 PM–5:00 PM
Musculoskeletal Ultrasound: Special Topics
Course Chair: Jon Jacobson, MD
San Diego A · North Tower/Lobby Level

The objective of this course is to review special and advanced topics related to musculoskeletal ultrasound. In addition to a brief review of basic principles, topics will include interventional techniques, soft tissue masses, rheumatologic applications, dynamic imaging, sports medicine applications, peripheral nerve ultrasound, and soft tissue foreign bodies. At the conclusion of this course, participants will be familiar with common pathologies related to these topics and understand the role of musculoskeletal ultrasound.

Faculty
Jon Jacobson, MD
Ronald Adler, MD, PhD
Antonio Bouffard, MD
Etienne Cardinal, MD
Amy Evangelisto, MD
David Fessell, MD
Victor Flores, MD
Jay Smith, MD

1:00 PM–5:30 PM
Pediatric Essentials: Head to Toe
Course Chair: Lynn Fordham, MD
San Diego B · North Tower/Lobby Level

This course will be a systematic head-to-toe review of the essentials of ultrasound imaging in children.

Faculty
Lynn Fordham, MD
Carol Barnewolt, MD
Dorothy Bulas, MD
Brian Coley, MD
Michael DiPietro, MD
Beth Kline-Fath, MD
Sara O’Hara, MD
Harriett Paltiel, MD
In Appreciation

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 and the ultrasound community by placing advertisements in the Journal of Ultrasound in Medicine, participating in the Annual Convention, providing sponsorships, and donating to the AIUM’s Endowment for Education and Research and educational grants.

The goal of the AIUM is to continue to make a difference in 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.

The AIUM is grateful to the companies listed below for their support from January 2007 through December 2007.

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($50,000 and above)
- GE Healthcare
- Philips Medical Systems
- Siemens Medical Solutions USA, Inc
- SonoSite, Inc

**Gold Level**
($25,000–$49,999)
- Medison America, Inc
- Parker Laboratories, Inc

**Silver Level**
($10,000–$24,999)
- Cook Women's Health
- Digisonics, Inc
- GeneCare Medical Genetics Center
- Hitachi Medical Systems America, Inc
- Medipattern Corporation
- Toshiba America Medical Systems, Inc
- Zonare Medical Systems, Inc

**Bronze Level**
($5,000–$9,999)
- Aloka Ultrasound
- Biodex Medical Systems
- CIVCO Medical Solutions
- Medical Soft, Inc
- Sonultra Corporation
- Sound Technology, Inc

**Copper Level**
($1,000–$4,999)
- American Registry for Diagnostic Medical Sonography
- AS Software, Inc
- ATS Laboratories, Inc
- Axess Ultrasound
- Biosound Esaote, Inc
- Cardiowave
- Center for Medical Genetics
- CIRS, Inc
- ContextVision AB
- CooperSurgical, Inc
- Fetal Care Center of Cincinnati
- Fetal Medicine Foundation USA
- Gammex rmi
- Global Medical Imaging
- Lenetix Medical Screening Laboratory, Inc
- Lippincott Williams & Wilkins
- Longport, Inc
- Mary Washington Hospital and MediCorp Health System
- Medical Positioning, Inc
- Medimage World, LLC
- Medisales, LLC
- North Texas Perinatal Associates
- NTD Laboratories, a PerkinElmer Company
- Preferred Medical Systems
- PCI Medical, Inc
- R4, LLC
- Saunders/Mosby (Elsevier)
- SonoDepot
- Sorna Corporation
- Sound Ergonomics, LLC
- St Joseph Medical Center
- St John’s Clinic, Physician Recruitment
- Ultrasonix Medical Corporation
- VisualSonics, Inc
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A NEW STANDARD OF PERFORMANCE.

Provides your practice environment with premium ultrasound capabilities

>> Instantly converts from a full-featured, cart-based system to a premium compact unit without compromise

>> One of the industry’s smallest cart-based footprints, for greater portability

>> The largest high-resolution monitor available (19 inches), offering a full viewing angle

>> Optional battery pack, allowing up to three hours of untethered scanning with the cart-based z.one ultra system

>> Among the industry’s most environmentally friendly ultrasound systems, helping you potentially save hundreds of dollars every year

>> Auto-Opt with ZST, Auto-Dop Trace, and calculation package options ensure quick image optimization and data capture

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### Schedule at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 AM–3:30 PM</td>
<td>Registration Open</td>
</tr>
<tr>
<td>7:00 AM–8:00 AM</td>
<td>Meet-the-Professor Sessions</td>
</tr>
<tr>
<td>7:00 AM–9:30 AM</td>
<td>Finance and Executive Committee Meeting</td>
</tr>
<tr>
<td>8:15 AM–9:45 AM</td>
<td>Categorical Courses</td>
</tr>
<tr>
<td>10:00 AM–11:00 AM</td>
<td>Postgraduate Course Committee Meeting</td>
</tr>
<tr>
<td>10:00 AM–11:00 AM</td>
<td>Scientific Sessions</td>
</tr>
<tr>
<td>10:00 AM–11:30 AM</td>
<td>Just Images Sessions: Musculoskeletal Ultrasound and Basic Science and Instrumentation</td>
</tr>
<tr>
<td>10:00 AM–11:30 AM</td>
<td>Membership Committee Meeting</td>
</tr>
<tr>
<td>11:00 AM–3:00 PM</td>
<td>Exhibit Hall Open</td>
</tr>
<tr>
<td>11:45 AM–12:45 PM</td>
<td>Meet-the-Professor Sessions</td>
</tr>
<tr>
<td>11:45 AM–12:45 PM</td>
<td>Lunch in Exhibit Hall</td>
</tr>
<tr>
<td>12:45 PM–1:45 PM</td>
<td>Break in Exhibit Hall</td>
</tr>
<tr>
<td>1:45 PM–3:15 PM</td>
<td>Categorical Courses</td>
</tr>
<tr>
<td>1:45 PM–3:15 PM</td>
<td>Endowment for Education and Research Committee Meeting</td>
</tr>
<tr>
<td>3:30 PM–5:30 PM</td>
<td>Plenary Session: Awards and Entertainment</td>
</tr>
<tr>
<td>5:30 PM–7:30 PM</td>
<td>Opening Reception</td>
</tr>
</tbody>
</table>

**Thursday, March 13**

**Convention**

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**Plenary Session: Awards and Entertainment**

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**Opening Reception**
7:00 AM–8:00 AM

Meet-the-Professor Sessions

Eight concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 71.

TA1 Obstetric Ultrasound: How to Keep It Safe?
Jacques Abramowicz, MD
Oceanside · South Tower/Level 1

TA2 Fetal Echo in Aneuploidy
Greggory DeVore, MD
Leucadia · South Tower/Level 1

TA3 Update on the Sonographic Early Detection of Ovarian Cancer
Arthur Fleischer, MD
Point Loma · South Tower/Level 1

TA4 Coding in Obstetric Ultrasound
Andrew Helfgott, MD
Solana · South Tower/Level 1

TA5 Multiple Cesareans and Accreta: An Imaging and Management Challenge
Thomas Moore, MD
Pacific · South Tower/Level 1

TA6 Venous Reflux: Ultrasound Diagnosis and Treatment
David Lee, MD
Torrey 1 · North Tower/Lobby Level

TA7 The Athlete’s Groin
Marnix van Holsbeeck, MD
Anaheim · North Tower/Marriott Pavilion/Lobby Level

TA8 Consumer-Directed Health Care: Creating a Practice That Results in Patient Loyalty and Referrals
Robert Wolfson, MD, PhD
Torrey 3 · North Tower/Lobby Level
**8:15 AM–9:45 AM**

**Categorical Courses**

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

1. **Abnormal Cardiac Lesions and Pediatric Cardiology Outcomes**
   
   **Moderator:** Greggory DeVore, MD
   
   **Location:** Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

   This course will review the impact of prenatal diagnosis of congenital heart disease as it relates to the neonate.

   - **8:15 AM–8:45 AM** Prenatal Diagnosis of Abnormal Cardiac Lesions
     
     Greggory DeVore, MD
   
   - **8:45 AM–9:15 AM** Management of Cardiac Lesions (Pediatric Cardiology Surgery)
     
     Mark Sklansky, MD
   
   - **9:15 AM–9:45 AM** Implications of Abnormal Cardiac Lesions
     
     Lami Yeo, MD

2. **Breast Ultrasound: Techniques, Interpretation, and Intervention**
   
   **Moderator:** Susan Ackerman, MD
   
   **Location:** San Diego B · North Tower/Lobby Level

   The goals of this course are to equip the participant with techniques for differentiating benign from malignant masses as well as for the evaluation of other breast abnormalities. Interventional techniques will be examined.

   - **8:15 AM–8:45 AM** Masses on Ultrasound and the Risk of Malignancy
     
     Lonie Salkowski, MD
   
   - **8:45 AM–9:15 AM** Ultrasound Evaluation of Diffuse Breast Disease
     
     Susan Ackerman, MD
   
   - **9:15 AM–9:45 AM** Artifacts and Pitfalls in Breast Ultrasound
     
     Sujata Ghate, MD

3. **Doppler Application in Obstetrics and Gynecology**
   
   **Moderator:** Ahmet Baschat, MD
   
   **Location:** San Diego A · North Tower/Lobby Level

   After this course, participants will be able to understand the principles of obtaining Doppler waveforms, understand the clinical applications of arterial and venous Doppler ultrasound in perinatal medicine, and understand applications of color Doppler ultrasound in obstetric and gynecologic imaging.

   - **8:15 AM–8:40 AM** Clinical Applications of Doppler Principles
     
     Ahmet Baschat, MD
Thursday, March 13 • Convention

8:40 AM–9:00 AM  Looking at the Two Sides of the Placenta  Henry Galan, MD
9:00 AM–9:25 AM  Perinatal Applications of Doppler Ultrasound  Ahmet Baschat, MD
9:25 AM–9:45 AM  Color Doppler Imaging in Obstetrics and Gynecology  Alfred Abuhamad, MD

Practical Aspects of 3-Dimensional Gynecologic Ultrasound  
Moderator: Beryl Benacerraf, MD  
Marriott Halls 3 and 4 • North Tower/Marriott Pavilion/Lobby Level  
The participant will be able to determine when and why 3-dimensional (3D) ultrasound is helpful when doing a pelvic examination, will learn some helpful, practical hints and pointers on how to optimize the 3D scan, and will benefit from listening in on a panel of experts discussing their own experience in this area.

8:15 AM–8:30 AM  Three-Dimensional Ultrasound and the Uterus  Beryl Benacerraf, MD
8:30 AM–8:45 AM  Three-Dimensional Ultrasound and the Adnexa  Ilan Timor-Tritsch, MD
8:45 AM–9:00 AM  Three-Dimensional Ultrasound and How to Get the Right Image and Why  Alfred Abuhamad, MD
9:00 AM–9:30 AM  Panel Discussion
9:30 AM–9:45 AM  Questions and Answers

Procedural Ultrasound in the Critically Ill and Injured Patient: Hands-on Course  
Moderators: Christopher Moore, MD, RDMS, RDCS, and Michael Blaivas, MD  
Marriott Hall 1 • North Tower/Marriott Pavilion/Lobby Level  
This hands-on procedural course will include 2 brief introductory lectures on some of the more common procedures in emergency and critical care ultrasound, with an emphasis on emergent vascular access, emergent thoracentesis/pericardiocentesis, and ultrasound-guided nerve blocks. The hands-on portion will feature the use of phantoms (courtesy of Blue Phantom) for procedural teaching.

8:15 AM–8:25 AM  Emergent Ultrasound Guidance to Fluid-Filled Spaces  Christopher Moore, MD, RDMS, RDCS
8:25 AM–8:35 AM  Ultrasound-Guided Regional Anesthesia  Michael Blaivas, MD
8:35 AM–9:45 AM  Hands-on Scanning  William Manson, MD, Kristin Carmody, MD, Vicki Noble, MD, RDMS, Andrew Liteplo, MD, RDM S, Rob Miller, MD, Matthew Nelson, DO, and Jagruti Patel, MD
In the last 5 years, researchers have started to pursue a new dynamic mode of strain imaging, sometimes called “shear wave imaging.” The objective of this course is to have the attendees gain an understanding of the underlying physics of this new and very exciting form of elastography and its likely clinical applications such as liver fibrosis.

8:15 AM–8:35 AM  Introduction to Shear Wave Analysis  Stanislav Emelianov, PhD  
8:35 AM–8:55 AM  Shear Wave Propagation Induced by Radiation Stress Provides Data for Estimation of Tissue Elasticity  James Greenleaf, PhD  
8:55 AM–9:15 AM  Elasticity Using Crawling Waves  Kevin Parker, PhD  
9:15 AM–9:35 AM  Shear Wave Analysis: Clinical Implications  Kathryn Nightingale, PhD, and Mark Palmeri, MD, PhD  
9:35 AM–9:45 AM  Panel Discussion  

The objective of this course is to review ultrasound of the hand and wrist. In addition to a review of anatomy and the ultrasound scanning technique, topics will include both wrist and hand pathology such as carpal tunnel syndrome, tendon abnormalities, joint processes and cysts, and rheumatologic applications. At the conclusion of this course, participants will be familiar with common pathologies related to the hand and wrist and understand the role of musculoskeletal ultrasound.

8:15 AM–8:35 AM  Anatomy and Technique  Carolyn Sofka, MD  
8:35 AM–9:05 AM  Wrist Pathology  Jon Jacobson, MD  
9:05 AM–9:20 AM  Finger Pathology  Sharlene Teefey, MD  
9:20 AM–9:35 AM  Wrist and Hand Ultrasound in Rheumatology  Ralf Thiele, MD  
9:35 AM–9:45 AM  Questions and Answers
Four concurrent sessions, each including 7 presentations on the latest ultrasound research, are offered during this period. * indicates presenter; (CR) indicates Case Report.

**Basic Science: Image Processing**

Moderators: Mark Palmeri, MD, PhD, and Tomy Varghese, PhD

San Diego A · North Tower/Lobby Level

10:00 AM–10:12 AM

410489 **Ultrasonic Monitoring of In Vitro Radio Frequency Ablation by Echo Decorrelation Imaging**

Mast, T. Douglas*; Subramanian, Swetha; Pucke, Daniel P.; Bowlus, William J.; Buell, Joseph F.

10:12 AM–10:24 AM

407826 **Monitoring the Effects of Strength Training on Skeletal Muscle Viscoelasticity: Initial Results Using Quantitative Sonoelastography**

Hoyt, Kenneth*; Kneezel, Timothy; Castaneda, Benjamin; Wu, Shuang; Parker, Kevin J.

10:24 AM–10:36 AM

410800 **Ultrasound Frame Rate Requirements for Cardiac Elastography: Experimental and In Vivo Results**

Chen, Hao*; Varghese, Tomy; Rahko, Peter S.; Zagzebski, James A.

10:36 AM–10:48 AM

410552 **Three-Dimensional Elastographic Imaging of Thermally Ablated Lesions**

Bharat, Shyam; Fisher, Ted G.; Varghese, Tomy*; Hall, Timothy J.; Jiang, Jingfeng; Madsen, Ernest L.; Zagzebski, James A.

10:48 AM–11:00 AM

411444 **Ultrasound-Based Modulus Imaging for Monitoring Radio Frequency Ablation: An In Vivo Animal Study**

Jiang, Jingfeng*; Brace, Christopher; Hall, Timothy J.; Lee, Fred; Varghese, Tomy

11:00 AM–11:12 AM

403947 **Reconstructing Hepatic Shear Moduli in Subjects With High Body Mass Indices Using Acoustic Radiation Force**

Palmeri, Mark L.*; Wang, Michael H.; Frinkley, Kristin D.; Abdelmalek, Manal F.; Diehl, Anna M.; Nightingale, Kathryn R.

11:12 AM–11:24 AM

409127 **Instrument for Accurate Determination of Complex Shear Moduli From 10 to 300 Hz**

Madsen, Ernest L.*; Frank, Gary R.; Hobson, Maritza A.; Stiles, Timothy A.; Jiang, Jingfeng; Hall, Timothy J.
Obstetric Anomalies: I
Moderators: Israel Meizner, MD, and Lisa Allen, BS, RDM S, RDCS, RVT, APS
Marriott Halls 3 and 4 · North Tower/Marriott Pavilion/Lobby Level

10:00 AM–10:12 AM
407239 Prenatal Sonographic Diagnosis of Hemivertebra: Associations and Outcomes
Wax, Joseph*; Watson, William J.; Miller, Richard C.; Ingardia, Charles J.; Pinette, Michael G.; Cartin, Angelina; Blackstone, Jacquelyn

10:12 AM–10:24 AM
410706 Evaluation of Obstetric Outcome in Pregnancies Complicated by Amniotic Sheets
Nelson, LaTasha D.*; Grobman, William A.

10:24 AM–10:36 AM
410848 Use of Fetal Magnetic Resonance Imaging for the Evaluation of Fetal Anomalies Detected by Standard Obstetric Ultrasound
Facco, Francesca L.*; Bevan, Lesley; Julian, Svena; Talbot, Christopher

10:36 AM–10:45 AM
407131 Prenatal Diagnosis of a Tethered Cord in 6 Fetuses Without Open Neural Tube Defects (CR)
Sohaey, Roya*; Kennedy, Anne; Oh, Karen; Selden, Nathan

10:45 AM–10:57 AM
409300 Bronchopulmonary Sequestration: What Should We Expect on Follow-up Ultrasound?
Mirza, Fadi G.*; Bauer, Samuel T.; Simpson, Lynn L.

10:57 AM–11:09 AM
407596 Invasive Management of Fetal Chylothorax Revisited: The Role of Repeated Thoracocentesis With a Very Early Diagnosis
Meizner, Israel J.*; Maschiach, Reuven; Vardimon, David; Bardin, Ron; Efrat, Zeev

11:09 AM–11:18 AM
410188 Severe Bilateral Hydronephrosis, Marked Bladder Dilatation, and a Normal Amniotic Fluid Volume: A Rare and Puzzling Case (CR)
Bornstein, Eran*; Fishman, Shira; Atkins, Kristin; Monteagudo, Ana; Monda, Susan; Timor-Tritsch, Ilan E.
Obstetrics: General

Moderator: William Watson, MD
Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

10:00 AM–10:12 AM
408168 The Association of Biparietal Diameter and Gestational Age With Test Characteristics of Observed-Expected Long Bone Ratios for Trisomy 21 Screening
Wang, Eileen*; Chen, Catherine; Glimco, Beth; Grobman, William

10:12 AM–10:24 AM
402244 Body Mass Index: How Does Obesity Influence Routine Fetal Anatomy Ultrasound Screening?
Glanc, Phyllis*; Dunn, Elizabeth; Maxwell, Cynthia

10:24 AM–10:36 AM
409061 The Incidence of Sonographically Diagnosed Oligohydramnios Is Increased in Obese Women
Patel, Vanita*; Rochelson, Burton; Lukin, Meredith

10:36 AM–10:48 AM
372338 Isolated Muscular Ventricular Septal Defect: Single-Institution Experience
Bahtiyar, Mert O.*; Weeks, Bevin P.; Friedman, Alan H.; Stevens, Brenda M.; Copel, Joshua A.

10:48 AM–11:00 AM
408471 First-Trimester Risk Assessment in Twin Gestations
Kahn, Daniel A.*; Platt, Ari; Silverman, Neil; Krantz, David; Platt, Lawrence D.

11:00 AM–11:12 AM
409565 Monochorionic Twins Discordant for Major Fetal Anomalies: Expectant Managements Is Still an Option
Bauer, Samuel*; Mirza, Fadi; Simpson, Lynn

11:12 AM–11:24 AM
411187 Handheld Ultrasound: Clinical Utility in Obstetrics and Gynecology
Zalud, Ivica
**Practice of Sonography**

**Moderator:** Audrey Fleming, RDMS, RVS

San Diego B · North Tower/Lobby Level

10:00 AM–10:12 AM

410722 **Enhancing Awareness of the Diagnostic Medical Sonography Professions: A High School Outreach Program**

Merton, Daniel A.

10:12 AM–10:24 AM

405652 **Sonographer Liability Insurance: What Is It and Do You Need It?**

Fleming, Audrey

10:24 AM–10:36 AM

410273 **Scan Protocols for Use by Nonmedical Personnel in Developing Countries: Organ Visibility and Reproducibility Evaluation**

Garra, Brian S.*; Destigter, Kristen; McEathron, Brian; Dattamajumdar, Anupam; Widmer, Rexford; Jakobovits, Rex; Ficzynski, Marc; Rouillard, Gail; Maguire, Susan; Richbourg, Jack; Zion, David; Peterson, Roy; Braff, Steven

10:36 AM–10:48 AM

409290 **Justification of Implementing 3-Dimensional Volume Protocols and How It Can Decrease Repetitive Stress Injuries in Sonographers**

McDowell, Jennifer*; Ciobanu, Adrian; Forero, Paola; Romero, Javier

10:48 AM–11:00 AM

409308 **Addressing Repetitive Stress Injuries in Sonographers by Replacing 2-Dimensional Imaging With 3-Dimensional Volume Acquisitions in Neonatal Brains**

McDowell, Jennifer*; Murphy, Erin; Ciobanu, Adrian; Romero, Javier

11:00 AM–11:12 AM

410407 **Effectiveness of the “Teaching-the-Teachers” Ultrasound Physician Training Program: A Summary of 3 Programs**

Goldberg, Barry B.*; Baltarowich, Oksana; Wilkes, Annina; Anane-Firempong, Adom; Fox, Traci B.; Merton, Daniel A.

11:12 AM–11:24 AM

390999 **Ultrasound Breast Imaging Reporting and Data System: Computer-Aided Teaching File Tool for Learning and Education**

Ojeda-Fournier, Haydee*; Galperin, Michael; Andre, Michael
10:00 AM–11:30 AM
**Just Images Session: Musculoskeletal Ultrasound—Lower Extremity**
San Diego C · North Tower/Lobby Level
Jon Jacobson, MD, Levon Nazarian, MD, and David Fessell, MD

10:00 AM–11:30 AM
**Just Images Session: Basic Science and Instrumentation**
Columbia · North Tower/Lobby Level
Frederick Kremkau, PhD, Paul Carson, PhD, Timothy Hall, PhD, David Cosgrove, MA, MSc, FRCP, FRCR, and Zheng Lu, PhD

11:45 AM–12:45 PM
**Meet-the-Professor Sessions**

Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 71.

**TP1**
**Transesophageal Echo and Transthoracic Echo Use in Resuscitation**
Michael Blaivas, MD, RDMS
Pacific · South Tower/Level 1

**TP2**
**Postabortion and Postpartum Ultrasound**
Douglas Brown, MD
Leucadia · South Tower/Level 1

**TP3**
**Thyroid Fine-Needle Aspiration: Why, When, and How?**
Mark Lockhart, MD, MPH
Oceanside · South Tower/Level 1

**TP4**
**Basic Screening for Congenital Heart Disease in Clinical Practice**
Mark Sklansky, MD
Point Loma · South Tower/Level 1

**TP5**
**First-Trimester, Integrated, Sequential, and Contingent Risk Assessment for Down Syndrome: What Does It Mean?**
Steven Warsof, MD
Solana · South Tower/Level 1

11:45 AM–12:45 PM
**Lunch in the Exhibit Hall**

12:45 PM–1:45 PM
**Break in the Exhibit Hall**
**1:45 PM–3:15 PM**

**Categorical Courses**

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

**Abdominal Vascular Ultrasound: Hands-on Course**

Moderator: M. Robert De Jong, RDMS, RVT
Marriott Hall 1 · North Tower/Marriott Pavilion/Lobby Level

The objective of this course is to detail the protocol of a complete hepatic, renal, and aortic vascular study, to interact with participants in scanning sessions, and to provide participants with state-of-the-art scanning capabilities.

1:45 PM–2:00 PM  Hepatic Vascular Evaluation
M. Robert De Jong, RDMS, RVT

2:00 PM–2:15 PM  Renal Vascular Evaluation
Marsha Neumyer, BS, RVT

2:15 PM–2:30 PM  Aortic Vascular Evaluation
Beatrice Madrazo, MD, RVT

2:30 PM–3:15 PM  Hands-on Scanning

**How to Start a Transcranial Doppler Program**

Moderator: Charles Tegeler, MD
Torrey · North Tower/Lobby Level

Attendees will be able to discuss the pertinent vascular anatomy for transcranial Doppler (TCD) testing, describe a basic TCD scanning protocol, list the Current Procedural Terminology codes for complete and limited TCD examinations, and list 3 current clinical applications of TCD ultrasound.

1:45 PM–2:00 PM  Basic Principles of Transcranial Doppler
(Anatomy, Physics, and Hemodynamics)
Zsolt Garami, MD

2:00 PM–2:15 PM  Techniques and Interpretation Criteria for Transcranial Doppler (Adult)
Zsolt Garami, MD

2:15 PM–2:30 PM  Techniques and Interpretation Criteria for Transcranial Doppler (Pediatric)
Dorothy Bulas, MD

2:30 PM–2:45 PM  Current Evidence-Based Clinical Transcranial Doppler Applications
Tatjana Rundek, PhD

2:45 PM–3:00 PM  Billing, Coding, and Reimbursement
Charles Tegeler, MD

3:00 PM–3:15 PM  Equipment and Supplies
Charles Tegeler, MD
Genitourinary Ultrasound: Kidneys and Scrotum
Moderator: Vikram Dogra, MD
San Diego A · North Tower/Lobby Level

The goal of the course is to provide expert commentary on genitourinary disease. The session will focus on diseases of the kidneys and scrotum. Topics will include renal infection, stones, and obstruction.

1:45 PM–2:15 PM Renal Stones and Hydronephrosis
Shweta Bhatt, MD

2:15 PM–2:45 PM Renal Infection
Bohyun Kim, MD

2:45 PM–3:15 PM Ultrasound of the Scrotum
Vikram Dogra, MD

Pediatric Emergencies
Moderator: Lynn Fordham, MD
San Diego C · North Tower/Lobby Level

The objective of this course is to review the ultrasound imaging findings in children in the pediatric emergency department.

1:45 PM–2:15 PM Problem-Based Approach to Pediatric Emergencies: Abdominal Pain
Jennifer Lim-Dunham, MD

2:15 PM–2:45 PM Problem-Based Approach to Pediatric Emergencies: The Vomiting Infant
Harriet Paltiel, MD

2:45 PM–3:15 PM Ultrasound for the Analysis of Pediatric Emergencies: Pelvic Pain
Harris Cohen, MD

Three- and 4-Dimensional Scanning Tricks: Obstetrics, Abdomen, and Gynecology
Moderator: Deborah D’Agostini, RDMS
Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

This session will serve as an update on 3-dimensional (3D) and 4D ultrasound imaging techniques as well as protocols. Participants will learn ways to incorporate 3D ultrasound or multiplanar imaging into their ultrasound practices and how to manipulate 3D volumes in obstetrics, including the fetal heart, face, spine, and extremities. Three-dimensional volumes in gynecology as well as abdominal volumes will also be presented.

1:45 PM–2:05 PM Obstetric Scanning Tricks
Deborah D’Agostini, RDMS

2:05 PM–2:25 PM A Novel Method for Evaluating Fetal Cardiac Anomalies
Liat Gindes, MD

2:25 PM–2:45 PM Lessons Learned: Clinical and Imaging Correlations in Gynecology
Anna Lev-Toaff, MD
Three-Dimensional Imaging Outside the Uterus and Fetus
Susanna Carmona, RDMS

3:05 PM–3:15 PM Questions and Answers

Three-Dimensional Ultrasound: Diving for Data
Moderator: Dolores Pretorius, MD
San Diego B · North Tower/Lobby Level

This session will teach how to get diagnostic information from 3-dimensional ultrasound volumes of the fetus. Faculty will use volumes from clinical patients on computer workstations and demonstrate exactly how to rotate, slice, render, and display the data in various formats. Multiple types of displays will be shown. The focus will be on the fetal face, skeletal abnormalities, and the fetal heart.

1:45 PM–2:05 PM Techniques: Basics to Advanced
Dolores Pretorius, MD

2:05 PM–2:25 PM Three-Dimensional Fetal Face
Beryl Benacerraf, MD

2:25 PM–2:45 PM The Prenatal Onset of Skeletal Dysplasia and Dysostoses
Deborah Krakow, MD

2:45 PM–3:05 PM Fetal Heart
Alfred Abuhamad, MD

3:05 PM–3:15 PM Questions and Answers

Ultrasonic Tissue Characterization
Moderators: James Zagzebski, PhD, and James Miller, PhD
Columbia · North Tower/Lobby Level

This course will summarize the state of the art of tissue characterization as an approach for enhancing the sensitivity and specificity of diagnostic ultrasound. After providing appropriate background information, speakers will share the latest results and address potential future developments.

1:45 PM–2:00 PM Scattering Models: A Background for Quantitative Ultrasound and a Perspective on the Future
Timothy Hall, PhD

2:00 PM–2:15 PM Tissue-Type Imaging of the Prostate
Ernest Feleppa, PhD

2:15 PM–2:30 PM Ultrasonic Characterization of the Fetal Heart
Mark Holland, PhD

2:30 PM–2:45 PM Model-Based Ultrasound Imaging
William O’Brien, Jr, PhD

2:45 PM–3:00 PM Applications of Statistical Scattering Models to Classify Tissue
P. Mohanan Shankar, PhD

3:00 PM–3:15 PM Ultrasound and the Diagnosis of Osteoporosis
Keith Wear, PhD
William J. Fry Memorial Lecture Award

Peter Burns, PhD

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 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’s 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.

Awards

Joseph H. Holmes Pioneer Awards
Beryl Benacerraf, MD, Clinical
Albert Goldstein, PhD, Basic Science

In 1977, the Pioneer Award, which honored an individual who significantly contributed to the growth and development of diagnostic ultrasound, was established. This special award was renamed in 1982 to honor Joseph H. Holmes, MD. Dr Holmes, the first person named as an AIUM pioneer, was an important figure to both the field of diagnostic ultrasound and the AIUM. His early efforts in ultrasound research included tissue characterization and ultrasound’s diagnostic use in polycystic kidney disease and 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
Karen Ophir, BS, RDMS

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

Honorary Fellow Award
Glenn McNally, MBBS, FRCOG, FRANZCOG, DDU, COGU, FAICD

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 Recognitions
George Ludwig, MD
Bhaskara Rao, MD

Established in 2002, the Memorial Recognition serves as a posthumous tribute to a creative and devoted physician, research scientist, or other member or nonmember who has contributed to the field of ultrasound in medicine.

Endowment for Education and Research Grant Awards
Recipients to be announced.
We will welcome wildlife conservationist Joan Embery. Ms Embery has served as a champion of environmental and conservation issues around the world, most notably as spokeswoman for the Zoological Society of San Diego. She has had the opportunity to express her passion for animals with a multitude of audiences from youths to veterinary students to corporate executives. Her work has included hundreds of television shows as diverse as The Tonight Show, CBS This Morning, Hollywood Squares, Mister Rogers' Neighborhood, Entertainment Tonight, PBS programs, and her own syndicated series Animal Express and Animals of Africa. Joan has a group of wildlife ambassadors that travel with her, representing the animal world and helping educate her audiences.

5:30 PM–7:30 PM • Thursday, March 13, 2008
Opening Reception in the Exhibit Hall
Following the Plenary Session, an Opening Reception will be held in the Exhibit Hall, featuring cocktails and hors d’oeuvres. Take this time to interact with colleagues as well as representatives from leading companies in the ultrasound industry.
Friday, March 14
Convention

Schedule at a Glance

6:30 AM–4:30 PM  Registration Open
6:45 AM–7:45 AM  Meet-the-Professor Sessions
7:00 AM–8:00 AM  Journal of Ultrasound in Medicine Editorial and Advisory Board Breakfast
8:00 AM–9:30 AM  Categorical Courses
8:30 AM–10:00 AM Continuing Medical Education Committee Meeting
9:30 AM–10:15 AM Professional Interest Section Meetings: Basic Science and Instrumentation, Practice of Sonography
9:30 AM–4:30 PM  Exhibit Hall Open
9:30 AM–10:30 AM  Refreshment Break
10:30 AM–12:00 PM  Scientific Sessions
10:30 AM–12:00 PM  New Investigator Session
12:15 PM–1:15 PM  Presidential Advisory Council Meeting
12:15 PM–1:15 PM  Meet-the-Professor Sessions
12:15 PM–1:15 PM  Scientific Poster Discussion
1:30 PM–3:30 PM  Categorical Courses
3:30 PM–4:30 PM  Refreshment Break
3:30 PM–5:00 PM  Council on Sections Committee Meeting
3:45 PM–5:30 PM  Ultrasound Practice Accreditation Committee Meeting
4:30 PM–5:30 PM  Scientific Sessions
4:30 PM–5:30 PM  Just Images Session: Obstetric Ultrasound
7:30 PM–11:00 PM  Leadership Banquet (by invitation only)
6:45 AM–7:45 AM

Meet-the-Professor Sessions

Six concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 71.

FA1 Controversies in Polycystic Ovary Syndrome: Diagnosis by Ultrasound
Misty Blanchette Porter, MD
Leucadia · South Tower/Level 1

FA2 Updates in Neonatal Neurosonology
Dorothy Bulas, M D
Oceanside · South Tower/Level 1

FA3 Is It Real or Is It an Artifact?
Peter Cooperberg, M D, CM, FRCPC
Anaheim · North Tower/ Marriott Pavilion/ Lobby Level

FA4 Color Flow Doppler Ultrasound of the Fetal Heart
Lisa Hornberger, M D
Point Loma · South Tower/Level 1

FA5 Ultrasound and Magnetic Resonance Imaging of Central Nervous System Anomalies
Deborah Levine, M D
Solana · South Tower/Level 1

FA6 Vascular Protocols and Interpretation Criteria
Laurence Needleman, M D
Pacific · South Tower/Level 1

8:00 AM–9:30 AM

Categorical Courses

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

Doppler Tricks and Techniques
Moderator: M. Robert De Jong, RDCS, RDMS, RVT
Columbia · North Tower/Lobby Level

This course will provide tips and techniques from the experts for achieving the best images to aid diagnosis in vascular, abdominal, and obstetric imaging.

8:00 AM–8:30 AM Doppler Technique and Abdominal Doppler Tricks
M. Robert De Jong, RDCS, RDMS, RVT

8:30 AM–9:00 AM Venous Duplex Sonography: Hook, Line, and Sinker–Pearls and Pitfalls
Patrick Washko, BSRT, RDMS, RVT

9:00 AM–9:30 AM Obstetric Doppler Tricks and Techniques
Wayne Persutte, PhD, MS, CRA, RDMS
Evaluating the Obstetric Patient With Abdominal Pain

Moderator: John McGahan, MD
Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

Following this course, participants will be able to discuss the use of magnetic resonance imaging for evaluating the obstetric patient with abdominal pain, the use of ultrasound for gynecologic causes of pain in the obstetric patient, the use of ultrasound for evaluating other causes of abdominal pain in the obstetric patient, and some obstetric causes of abdominal pain that should not be overlooked.

8:00 AM–8:20 AM  Use of Ultrasound to Evaluate Other Causes of Abdominal Pain in Gynecologic Patients
John McGahan, MD

8:20 AM–8:40 AM  Magnetic Resonance Imaging of Acute Abdominal Pain in the Pregnant Patient
Fergus Coakley, MD

8:40 AM–9:00 AM  Use of Ultrasound to Evaluate Gynecologic Causes of Pain in the Obstetric Patient
Mary O’Boyle, MD

9:00 AM–9:20 AM  Use of Ultrasound and Magnetic Resonance Imaging to Evaluate an Obstetric Condition That Should Not Be Overlooked: Placenta Accreta
Michele Brown, MD

9:20 AM–9:30 AM  Questions and Answers

Interventional Procedures in Difficult Conditions: When Things Go Wrong

Moderator: Dean Nakamoto, MD
San Diego A · North Tower/Lobby Level

This course will address performance of interventional procedures in difficult situations such as patients with coagulopathy and other medical problems. Participants will learn how to minimize complications from sonographically guided procedures and to recognize and manage them if they do occur.

8:00 AM–8:25 AM  Abscess Drainage in Difficult Situations: Methods to Avoid Complications
Dean Nakamoto, MD

8:25 AM–8:50 AM  Difficult Percutaneous Biopsies
John Haaga, MD

Wael Saad, MD

9:15 AM–9:30 AM  Panel Discussion
The Palpable Superficial Mass: Nodes, Bumps, Hernias, and Masses
Moderator: Cindy Rapp, BS, RDMS
San Diego C · North Tower/Lobby Level
The goal of this course is to develop approaches to the evaluation of superficial masses. Topics will include assessment of lymph nodes, subcutaneous lumps and bumps, and hernias.

8:00 AM–8:30 AM  Sonography of Abdominal Wall Hernias  
Cindy Rapp, BS, RDMS
8:30 AM–9:00 AM  Sonography of Lymph Nodes  
Wui Chong, FRCR
9:00 AM–9:30 AM  Palpable Superficial Masses  
Susan Ackerman, MD

The Use of Ultrasound in Perimenopausal Patients
Moderator: Ilan Timor-Tritsch, MD
Marriott Halls 3 and 4 · North Tower/Marriott Pavilion/Lobby Level
Perimenopause is a unique time in the lives of women. Significant bleeding issues often arise in which organic pathology must be distinguished from hormonal changes; adnexal masses have a higher incidence of malignancy; and pelvic floor dysfunction from the trauma of childbirth is a major concern. At the end of this course, participants will understand how to use ultrasound in evaluation and management of these perimenopausal concerns.

8:00 AM–8:30 AM  Abnormal Uterine Bleeding in Perimenopausal Women  
Steven Goldstein, MD
8:30 AM–9:00 AM  The Adnexa: To Operate or Not  
James Shwayder, MD, JD
9:00 AM–9:30 AM  The Pelvic Floor: Is the Support Weakening?  
Ilan Timor-Tritsch, MD

Update in Transcranial Doppler Ultrasound: Hands-on Course
Moderator: Charles Tegeler, MD
Marriott Hall 1 · North Tower/Marriott Pavilion/Lobby Level
Attendees will have the opportunity to learn various techniques for performing transcranial Doppler sonography, carotid Doppler studies, and 3-dimensional neonatal neurosonology, become familiar with both imaging and nonimaging equipment from various vendors, and perform hands-on examinations on live adult models and manipulate neonatal cranial data sets under the guidance of faculty.

8:00 AM–9:30 AM  Hands-on Scanning  
Dorothy Bulas, MD, Judy Estroff, MD, Zsolt Garami, MD, Dana Meads, RT-R, RVT, (APS), Tatjana Rundek, PhD, and Charles Tegeler, MD
Ultrasound Bioeffects: The View in 2008

Moderators: Charles Church, PhD, and J. Brian Fowlkes, PhD
San Diego B · North Tower/Lobby Level

This course will provide an overview of the latest information on the potential for ultrasound bioeffects from diagnostic ultrasound as used in clinical practice. Various reports of bioeffects have appeared in the literature (and in some cases the popular press), and periodic review is necessary to determine the relationship of these potential effects to clinical practice. This course is based in part on the AIUM-sponsored consensus conference on ultrasound bioeffects and subsequent review of conclusions and recommendations for the safe use of diagnostic ultrasound. In addition, the evolution of regulations on diagnostic ultrasound has led to some considerations regarding acoustic output limits as currently imposed. The objective of this course is to provide a current understanding of ultrasound bioeffects and their relationship to the use of ultrasound by practicing physicians and sonographers.

8:00 AM–8:05 AM  Introduction
J. Brian Fowlkes, PhD

8:05 AM–8:20 AM  Nonfetal Ultrasound: Thermal Effects
William O'Brien, Jr, PhD

8:20 AM–8:35 AM  Nonfetal Ultrasound: Mechanical Effects
Charles Church, PhD

8:35 AM–8:50 AM  Fetal Ultrasound: Thermal Effects
Jacques Abramowicz, MD

8:50 AM–9:05 AM  Fetal Ultrasound: Mechanical Effects
Melvin Stratmeyer, PhD

9:05 AM–9:20 AM  Ultrasound With Contrast Agents
Douglas Miller, PhD

9:20 AM–9:30 AM  Questions and Answers
J. Brian Fowlkes, PhD

9:30 AM–10:30 AM  Refreshment Break in the Exhibit Hall
10:30 AM–12:00 PM

Scientific Sessions

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

Abdominal Ultrasound
Moderators: Mark Kliewer, MD, and Mohan Paspulati, MD
San Diego A · North Tower/Lobby Level

10:30 AM–10:42 AM
408443 Ultrasound Elasticity Imaging of Intestinal Fibrosis in Rats
Rubin, Jonathan M.*; Johnson, Laura A.; Jia, Congxian; Joyce, Joel C.; Higgins, Peter D. R.; Rangwalia, Sujal; Kang, Kim

10:42 AM–10:54 AM
409363 Ultrasound-Based Transient Elastography for the Detection of Hepatic Fibrosis: Systematic Review and Meta-Analysis
Kurtz, David M.*; Schoenleber, Scott J.; West, Colin P.; Montori, Victor M.; Talwalkar, Jayant A.

10:54 AM–11:06 AM
409451 The Chronological Analysis of Hepatic Vein Arrival Times of Ultrasound Contrast Agents Reveals the Hepatic Hemodynamic Changes Induced by Treatment of Gastric Varices
Furuichi, Yoshihiro*; Ichimura, Shigeki; Metoki, Ryo; Sugimoto, Katsutoshi; Taira, Junichi; Yamada, Masahiko; Imai, Yasuhiro; Nakamura, Ikuo; Moriyasu, Fuminori

11:06 AM–11:18 AM
398082 Efficacy of Preoperative Contrast-Enhanced Ultrasound Examination With Sonazoid in Surgery for Digestive Malignancy
Kitamura, Hiroshi*; Nomura, Kazuhiko; Arai, Masayuki; Kobayashi, Masakazu; Suga, Tomoaki

11:18 AM–11:30 AM
411004 Contrast-Enhanced Sonography in the Evaluation of Bladder Lesions: Preliminary Study
Sorrentino, Fortunato*; Campisi, Antonella; Salvaggio, Giuseppe; Mastrocinque, Giuseppe; Caruso, Giuseppe; Melloni, Darwin

11:30 AM–11:42 AM
407994 Spectrum of Sonographic Imaging in Pancreatic Duct Abnormalities Following Pancreas Transplantation
Patel, Bhargavi*; Khosla, Anil; Garvi, Paul; Shah, Akash; Martinez, Brandon K.; Wilbur, Andrew
11:42 AM–11:54 AM

410215 Comparison of Hepatic Artery and Portal Vein Hemodynamics in Patients With Chronic Budd-Chiari Syndrome and Healthy Individuals: Effect of Partial and Complete Occlusion of Hepatic Veins, Portal Flow Inversion, and Portal Thrombosis
Marcelino, Antonio S.;* Saito, Osmar C.; Chammas, Maria C.; Cosme de Oliveira, Andre; Cerri, Giovanni G.

Basic Science: Contrast Agents
Moderators: Barry Goldberg, MD, and Andrej Lyshchik, MD, PhD
Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

10:30 AM–10:42 AM

410252 Echo-Enhanced Contrast Agents for Pancreas Transplantations: Normal and Pathologic Findings
Marcelino, Antonio S.;* Roberto, Meirelles; Cristiano, Cocuzza; Saito, Osmar; Chammas, Maria C.; Cerri, Giovanni G.

10:42 AM–10:54 AM

410648 Sentinel Lymph Node Detection in Swine With Melanomas: Comparison of Lymphosonography to Lymphoscintigraphy
Goldberg, Barry B.;* Merton, Daniel A.; Liu, Ji-Bin; Aruva, Mohan; Fox, Traci B.; Zhang, Kajjun; Thakur, Madhukar; Forsberg, Flemming

10:54 AM–11:06 AM

410788 Novel Automated Algorithm for Depicting Vascularity in Subharmonic Images
Dave, Jaydev*; Forsberg, Flemming

11:06 AM–11:18 AM

409250 Relationships Between Retention of a Vascular Endothelial Growth Factor Receptor Type 2–Targeted Ultrasound Contrast Agent and Volume, Microvascular Cross-Sectional Area, and Blood Flow Velocity in Breast Cancer Tumors
Lyshchik, Andrej*; Lee, Debbie J.; Loveless, Mary; Yankeelov, Thomas E.; Fleischer, Arthur C.; Gore, John C.

11:18 AM–11:30 AM

409722 Monitoring the Effect of VEGF Trap on Melanoma Tumor Vascularity Using Contrast-Enhanced Ultrasound Imaging
Ro, Raymond J.; Forsberg, Flemming*; Liu, Ji-Bin; Chiu, See-Ying; Merton, Daniel A.; Lipnack, Kathryn J.; Potoczak, Magdalena; Dicker, Adam P.; Nazarian, Levon N.

11:30 AM–11:42 AM

408864 Contrast-Enhanced Ultrasound Measures of Angiogenesis in Rat Xenograft Models: Comparison to Immunohistochemical Markers
Ro, Raymond J.; Forsberg, Flemming*; Fox, Traci B.; Liu, Ji-Bin; Chiu, See-Ying; Potoczak, Magdalena; Goldberg, Barry B.
11:42 AM–11:54 AM
409740 Development of High-Resolution Contrast-Enhanced Ultrasound Angiography
Loveless, Mary E.*; Li, Xia; Huamani, Jessica; Lyshchik, Andrej; Dawant, Benoit; Hallahan, Dennis; Gore, John C.; Yankeelov, Thomas E.

Obstetric Anomalies: II
Moderators: Eugene Toy, MD, and Lisa Deiranieh, BS, RDMS
Marriott Hall 3 · North Tower/Marriott Pavilion/Lobby Level

10:30 AM–10:42 AM
406334 Revisiting Humeral Length for the Detection of Fetal Trisomy 21
Gray, Diana L.*; Dicke, Jeffrey M.; McCourt, Carolyn; Dickerson, Rachel; Odibo, Anthony O.

10:42 AM–10:51 AM
410455 Detection of Twin Reversed Arterial Perfusion Sequence at the Time of Nuchal Translucency: The Added Value of 3-Dimensional Sonography in Early Diagnosis (CR)
Bornstein, Eran*; Monteagudo, Ana; Dong, Ran; Timor-Tritsch, Ilan E.

10:51 AM–11:03 AM
402800 Fetus-in-Fetu With 9 Distinct Fetoform Parts
Blumenfeld, Yair J.*; Chitkara, Usha; Dwyer, Bonnie; Maas, Kevin; Smith, James; Barth, Richard

11:03 AM–11:15 AM
407981 Risk of Preterm Birth in Pregnancies Complicated by Multiple Congenital Malformations
DeFranco, Emily*; Purisch, Stephanie; Muglia, Louis; Stamilio, David

11:15 AM–11:24 AM
402860 Antenatal Diagnosis of Cerebellar Atrophy (CR)
Sherrill, Jennifer L.*; Hamrick, Ann; Monga, Manju

11:24 AM–11:36 AM
407303 Establishing a Growth Curve for Fetuses With Gastroschisis
Gesteland, Katherine M.*; Pereira, Leonardo; Tolosa, Jorge

11:36 AM–11:48 AM
Fang, Yu M. V.*; Egan, James F. X.; Kaminsky, Lillian; Bolnick, Jay; Prabulos, Ann M.; Benn, Peter
Obstetrics: New Techniques
Moderators: Shraga Rottem, MD, and Sharon Hughes, BS, RDMS
San Diego B · North Tower/Lobby Level

10:30 AM–10:42 AM
407521 Ultrasound-Based 3-Dimensional Solid Modeling of the Cervix in Patients With Cerclage
House, Michael*; Kleeman, Linda; Tangchitnob, Edward; Craigo, Sabrina; Socrate, Simona

10:42 AM–10:51 AM
410906 Prenatal Diagnosis of Enlarged Parietal Foramina in the Second Trimester Using 3-Dimensional Ultrasound (CR)
Solomon, Julia E.*; Freeman, Bryan E.; Nyberg, David A.

10:51 AM–11:03 AM
391955 Decision Tree for the Diagnosis of 93 Genetic Syndromes in Fetuses With Increased Nuchal Translucency and a Normal Karyotype
Rottem, Shraga*; Sood, Rupa; Lysikiewicz, Andrzej; Garon, Howard; Tintle, Suzanne; Macedonia, Christian; Lopez, Lilian; Birnholz, Jason; Gembruch, Ulrich; Min, Chen; Yeboa, Kwame

11:03 AM–11:15 AM
411155 Abnormal Number of Fetal Ribs on 3-Dimensional Ultrasound: Associated Anomalies and Outcome in 75 Fetuses
Gindes, Liat*; Benoit, Bernard; Pretorius, Dolores H.; Achiron, Reuven

11:15 AM–11:27 AM
407224 Fetal Anatomic Survey at 12 to 13 Weeks by 3-Dimensional Ultrasound
Fong, Katherine*; Bhaduri, Mousumi; Okun, Nan; Toi, Ants

11:27 AM–11:39 AM
406589 Automatic Fetal Biometry: Clinical Evaluation
Zalud, Ivica*; Good, Sara; Carneiro, Gustavo; Georgescu, Bogdan; Patchrapong, Kathleen; Green, Lorie; Shahrestani, Farzaneh; Okumura, Russell

11:39 AM–11:51 AM
409296 Three-Dimensional Volume Rendering and Reconstruction of Neonatal Brain Ventricles: A Time Efficiency and Reproducibility Study
McDowell, Jennifer*; Murphy, Erin; Romero, Javier
Vascular Ultrasound

Moderators: Ulrike Hamper, MD, MBA, and M. Robert De Jong, RDQS, RDMS, RVT
Columbia · North Tower/Lobby Level

10:30 AM–10:42 AM
409966 Clinical Validation of Improved Intima-Media Thickness Measurement Using Pixel Compounding
Tuthill, Theresa*; Raunig, David L.; Wyman, Bradley T.; Evans, Gregory W.; Tegeler, Charles H.

10:42 AM–10:54 AM
405252 Ultrasound-Guided Subclavian Vein Cannulation in the Emergency Department: Is Ultrasound Really Better?
Campbell, Colleen J.

10:54 AM–11:06 AM
409783 Assessing Carotid Stenoses With A New Semiautomated 4-Dimensional Doppler System
Forsberg, Flemming*; Stein, Alan D.; Merton, Daniel A.; Lipnack, Kathryn J.; Herzog, Donald; Parker, Laurence; Needleman, Laurence

11:06 AM–11:18 AM
403626 Incidence of Intracranial Cerebral Artery Disease in High-Risk Caucasian Patients Undergoing Cardiac Surgery
Razumovsky, Alexander Y.*; Laschinger, John C.; Skolasky, Richard L.

11:18 AM–11:30 AM
388044 Follow-up of Neointimal Proliferation After Carotid Stenting With Color, Power Doppler, and B-Flow Sonography
Yucel, Cem*; Agladioglu, Kadir; Ozhan Oktar, Suna; Onal, Baran; Ilgit, Erhan; Ozdemir, Hakan

11:30 AM–11:42 AM
409472 Detecting Atherosclerosis With In-Plane Ultrasound Waves
Rajakenttä, Tina C.*; Salmi, Ari; Hytönen, Jarkko; Leppänen, Olli; Hæggström, Edward; Ylä-Herttuala, Seppo

11:42 AM–11:54 AM
409019 Diagnosis of Portal Vein Thrombosis With Contrast Ultrasonography Using a Maximum-Intensity Projection Technique, Micro Flow Imaging
Ichimura, Shigeki*; Furuichi, Yoshihiro; Metoki, Ryo; Sugimoto, Katsutoshi; Taira, Junichi; Yamada, Masahiko; Imai, Yasuharu; Nakamura, Ikuo; Moriyasu, Fuminori
10:30 AM–12:00 PM

**New Investigator Awards Session**

* Moderator: J. Oscar Barahona, BS, RDMS

San Diego C · North Tower/Lobby Level

10:30 AM–10:42 AM

**405335 Three-Dimensional Ultrasound Demonstration of Fetal Abdominal Blood Vessels**

Gindes, Liat*; Pretorius, Dolores H.; Kfir, Menash; D’Agostini, Deborah; Hull, Andrew; Achiron, Reuven

10:42 AM–10:54 AM

**408616 Mitral Valve-Tricuspid Valve Distance as a Sonographic Marker of Trisomy 21**

Grace, Daniel*; Glantz, J. Christopher; Ozcan, Tulin

10:54 AM–11:06 AM

**409970 The Relationship of Pulsatile Flow in the Umbilical Vein to Reversal of Flow in the Ductus Venosus in Fetuses With Intrauterine Growth Restriction**

Drennan, Kathryn J.*; Hanif, Farhan; Kruger, Michael; Picconi, Jason; Mari, Giancarlo

11:06 AM–11:18 AM

**397802 Clinical Evaluation of Elastography for the Differential Diagnosis of Thyroid Follicular Tumors**

Fukunari, Nobuhiro*; Sakaue, Satoshi; Yamazaki, Tomomi; Kabsawa, Yoshihiro; Nakamura, Akio; Arai, Kazushige; Mitake, Tsuyosi

11:18 AM–11:30 AM

**396599 Relationship Between Retention of a Vascular Endothelial Growth Factor Receptor 2 (VEGFR2)-Targeted Ultrasonographic Contrast Agent and Level of VEGFR2 Expression in an In Vivo Breast Cancer Model**

Lee, Debbie J.*; Lyshchik, Andrej; Huamani, Jessica; Hallahan, Dennis E.; Fleischer, Arthur C.

11:30 AM–11:42 AM

**408309 Accurate Estimation of Attenuation Along a Propagation Path Using Backscattered Echoes From Multiple Sources**

Bigelow, Timothy A.

11:42 AM–11:54 AM

**410697 Virtual Biopsy of Liver Stiffness and Viscosity: In Vivo Animal Study**

Chen, Shigao*; Urban, Matthew W.; Greenleaf, James F.
12:15 PM–1:15 PM

Meet-the-Professor Sessions

Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 71.

FP1 Microbubble Contrast Agents and Their Clinical Use
Peter Burns, PhD
Oceanside · South Tower/Level 1

FP2 Early Pregnancies of Unknown Location: An Increasing Trend
Steven Goldstein, MD
Leucadia · South Tower/Level 1

FP3 Sonography of Inguinal Hernias
David Jamadar, MBBS, FRCS, FRCR
Pacific · South Tower/Level 1

FP4 Cardiac Abnormalities Seen in the 4-Chamber Heart
John McGahan, MD
Solana · South Tower/Level 1

FP5 The Basic Fetal Cardiac Examination
Lami Yeo, MD
Point Loma · South Tower/Level 1

12:15 PM–1:15 PM

Scientific Poster Discussion
Marriott Hall 2 · North Tower/Marriott Pavilion/Lobby Level
Categorical Courses

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

Court TV at the AIUM
Moderator: Lawrence Platt, MD
Marriott Halls 3 and 4 · North Tower/Marriott Pavilion/Lobby Level

At the end of the session, participants will be able to understand many of the legal risks and causes of action of doing ultrasound examinations, appreciate the difference between a settlement and a trial verdict, understand the reporting requirement to the National Practitioner Data Bank, and understand the significance of a trial by jury.

Mock Malpractice Trial Faculty
Susan Loggans, ESQ: Plaintiff Lawyer
Patsy Jones, RN, MN, CLNC: Plaintiff
David O’Keefe: Defense Lawyer
James Shwayder, MD, JD: Defendant
Wayne Persutte, PhD, MS, CRA, RDMS: Witness
Roy Filly, MD: Expert Witness
Gregory DeVore, MD: Expert Witness
Honorable Barbara Jones: Judge

How to Optimize the Sonographer Work Environment
Moderator: Diana Strickland, BS, BA, RDMS, RDCS
Columbia · North Tower/Lobby Level

In a time of an aging sonographer population and a more competitive job market, this course will cover how to attract the best sonographers, how to retain them, and how to provide job growth for them.

1:30 PM–2:10 PM
An Introduction to Research Methodology for Sonographers
Eric Meaders, MAED, RDMS, RVT

2:10 PM–2:50 PM
Justifying New Equipment
Diana Strickland, BS, BA, RDMS, RDCS

2:50 PM–3:30 PM
Keeping Your Staff Happy and Motivated
M. Robert De Jong, RDCS, RDMS, RVT
Lessons Learned: Clinical and Imaging Correlations in Gynecology
Moderator: Anna Lev-Toaff, MD
Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

In today's world of imaging, correlation of findings on various modalities is often necessary. After this course, participants will understand pitfalls, strengths, and weaknesses of various modalities in the gynecologic patient, as well as the clinician's perspective.

1:30 PM–2:10 PM  Clinical Correlation of Ultrasound in Gynecology
William Brown, III, MD

2:10 PM–2:50 PM  Ultrasound and Computed Tomography
Anna Lev-Toaff, MD

2:50 PM–3:30 PM  Ultrasound and Magnetic Resonance Imaging
Diane Bergin, MD

Normal and Abnormal Heart Anatomy
Moderator: Thomas Nelson, PhD
San Diego A · North Tower/Lobby Level

This course will review the normal anatomy of the basic and extended basic fetal heart examination and common cardiac malformations.

1:30 PM–2:00 PM  Performing a Basic Examination of the Fetal Heart
Alfred Abuhamad, MD

2:00 PM–2:30 PM  Performing an Extended Basic Examination of the Fetal Heart and Review of Cardiac Lesions
Mark Sklansky, MD

2:30 PM–3:00 PM  Strategies for Diagnosing Cardiac Abnormalities in Clinical Practice
Wesley Lee, MD

3:00 PM–3:30 PM  Image Case Reviews
Faculty

Shoulder Ultrasound
Moderator: Marnix van Holsbeeck, MD
San Diego C · North Tower/Lobby Level

The objective of this course is to review ultrasound of the shoulder. In addition to a review of anatomy and the ultrasound scanning technique, topics will include rotator cuff pathology, abnormalities beyond the rotator cuff, dynamic shoulder imaging, and rheumatologic disorders. At the conclusion of this course, participants will be familiar with common pathologies related to the shoulder and understand the role of musculoskeletal ultrasound.

1:30 PM–1:50 PM  Anatomy and Technique
Nirvikar Dahiya, MD

1:50 PM–2:20 PM  Rotator Cuff Pathology
Levon Nazarian, MD
Questions and Answers

Ultrasound of the Shoulder: Beyond the Rotator Cuff
Catherine Brandon, MD

Dynamic Shoulder Imaging
Marnix van Holsbeeck, MD

Shoulder Ultrasound: Rheumatologic Disorders
Ralf Thiele, MD

Questions and Answers

Topics in Emergency and Critical Care Ultrasound: Part I
Moderator: Christopher Moore, MD
San Diego B • North Tower/Lobby Level

This is part 1 of a 2-part categorical course involving the use of ultrasound in the emergency and critical care setting. Part 1 will feature 4 topics: (1) the use of sonography in the emergent diagnosis of appendicitis, intussusception, free air, bowel obstruction, and diverticulitis, among others; (2) the critical findings that should not be missed in emergent and critically ill patients; (3) utility of ultrasound in investigating aortic emergencies, both thoracic and abdominal, as well as techniques and the utility of investigating the vena cava; and (4) tips and pitfalls for sonographic examination of the nonpregnant female with acute pelvic pain, including ovarian torsion and other pelvic emergencies.

Sonographic Evaluation of Bowel Emergencies
J. Christopher Fox, MD

Miss the Emergency Sonographic Diagnosis and Fail Your Boards
Sherelle Laifer-Narin, MD

Sonography of the Great Vessels: Emergencies of the Thoracic and Abdominal Aorta and Vena Cava
Christopher Raio, MD

Tips, Cases, and Pitfalls in Transvaginal Sonography of the Nonpregnant Female With Acute Pelvic Pain
Jamal Bokhari, MD

Ultrasound-Guided Biopsies and Intervention: Hands-on Course
Moderator: Vikram Dogra, MD
Marriott Hall I • North Tower/Marriott Pavilion/Lobby Level

In this course, participants will be shown optimum ways to set up biopsies and avoid potential complications. There will be hands-on instruction in small groups by experts in the field. Every participant will have the opportunity to practice biopsies on phantoms using needles and needle guides on a variety of ultrasound machines. Techniques that can be applied to small parts (thyroid and lymph node), thoracic, and abdominal biopsies, including liver, renal, and deep abdominal and pelvic lesions, will be described.
1:30 PM–1:50 PM  Ultrasound Biopsies: Why Use a Sonographer?  
M. Robert De Jong, RDCS, RDMS, RVT

1:50 PM–3:30 PM  Hands-on Scanning  
Susan Ackerman, MD, Shwetta Bhatt, MD, Wui Chong, MD, Vikram Dogra, MD, Ulrike Hamper, MD, MBA, Dean Nakamoto, MD, Raj Paspulati, MD, Deborah Rubens, MD, and Leslie Scoutt, MD

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

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; (CR) indicates Case Report.

- **Basic Science: Tissue Characterization**  
  Moderators: Timothy Hall, PhD, and Ernest Feleppa, PhD  
  Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

  4:30 PM–4:42 PM  
  **410525 Improved Ultrasound Imaging of Brachytherapy Seeds Through Low-Frequency Shaking Ex Vivo**  
  Muratore, Robert*; Kalisz, Andrew; Bhatt, Geet K.; Alam, S. Kaisar; Feleppa, Ernest J.

  4:42 PM–4:54 PM  
  **409907 Imaging the Nonlinear Elastic Properties of Breast Tissues**  
  Hall, Timothy J.*; Barbone, Paul E.; Oberai, Assad A.; Sommer, Amy M.; Goenezen, Sevan; Jiang, Jingfeng

  4:54 PM–5:06 PM  
  **411726 Conventional-Frequency Ultrasound Detection of Apoptosis In Vivo**  
  Papanicolau, Naum*; Azrif, Muhammad; Karshafian, Rafii; Giles, Anoja; Sadeghian, Alireza; Kolios, Michael C.; Czarnota, Gregory J.

  5:06 PM–5:18 PM  
  **408993 Hybrid Method for Attenuation Estimation**  
  Kim, Hyungsuk; Varghese, Tomy*

  5:18 PM–5:30 PM  
  **410945 Spectrum Analysis for Detecting Micrometastases in Lymph Nodes**  
  Feleppa, Ernest; Dasgupta, Shreedevi; Mamou, Jonathan*
Genitourinary Ultrasound
Moderators: Wui K. Chong, FRCR, and Audrey Fleming, RDMS, RVS
Columbia · North Tower/Lobby Level

4:30 PM–4:42 PM
413840 Can Sonocystograms Replace Urethrocystograms in the Management of Early Catheter Removal in Post-Radical Prostatectomy Patients? 
Telegraphy, Shpetim*; Kozirovsky, Mariana; Laze, Juliana; Lepor, Herbert

4:42 PM–4:54 PM
407685 Microsurgical Excision of Nonpalpable Testicular Tumors Using Intraoperative Sonographically Guided Needle Localization 
Mangrulkar, Vaibhav*; Cohen, Harris; Sheynkin, Yefim; Mishail, Alek

4:54 PM–5:06 PM
394212 Functional Ultrasound Study of the Urinary Bladder: Protocol and Application of the Bladder Volume Wall Thickness Index 
Chan, Mei F. E.*; Leung, Vivian Y. F.; Chu, Winnie C. W.; Sreedhar, Biji; Yeung, Chung K.; Metreweli, Constanti

5:06 PM–5:18 PM
393556 Evidence of a Functional Sphincter at the Vesicoureteric Junctions: Study of Doppler Waveforms of the Ureteric Jets 
Leung, Vivian Y. F.*; Chu, Winnie C. W.; Yeung, Chung K.; Metreweli, Constanti

5:18 PM–5:30 PM
386327 Peritransplant and Collecting System Complications Following Renal Transplantation 
Patel, Bhargavi*; Camren, Paul; Khosla, Anil; Garvin, Paul; Wilbur, Andrew; Shamim, Ejaz; Martinez, Brandon K.

Gynecologic Ultrasound
Moderators: Steven Goldstein, M D, and Patricia Mayberry, RDMS, RVT
San Diego A · North Tower/Lobby Level

4:30 PM–4:42 PM
410105 Contrast-Enhanced Transvaginal Sonography of Ovarian Masses: Preliminary Findings 
Fleischer, Arthur C.*; Lyshchik, Andrej; Loveless, Mary; Rao, Gautam G.; Crispens, Marta A.; Jones, Howard W.; Fishman, David A.

4:42 PM–4:54 PM
408439 Endometrial Thickness Dynamics After Starting Pituitary Downregulation With Antagonists Do Not Reflect Pregnancy Outcomes in Assisted Reproductive Technology Cycles 
Detti, Laura*; Yelian, Frank D.; Kruger, Michael L.; Diamond, Michael P.; Puscheck, Elizabeth E.
4:54 PM–5:03 PM
408145 Minimally Invasive Management of a 12-Week Abdominal Pregnancy Without Surgery (CR)
Hobeika, Elie; Dattel, Bonnie; Duran, Hakan; Abuhamad, Alfred, Berkley, Eliza*

5:03 PM–5:15 PM
411666 Impact of Sonohysterography in the Diagnosis of Endometrial and Endocavitary Abnormalities
Paspulati, Raj M.; Semaj, Flamur*

5:15 PM–5:27 PM
406795 Diagnostic Accuracy and Treatment Efficacy of Sonohysterography-Guided Procedures in Patients With Suspected Endometrial Pathology
Tetrokalashvili, Maggie*; Petrikovsky, Boris; Goudas, Vasilios

Interventional-Intraoperative Ultrasound
Moderators: Dean Nakamoto, MD, and Shweta Bhatt, MD
San Diego C · North Tower/Lobby Level

4:30 PM–4:42 PM
411913 Role of Color Doppler Ultrasonography to Address the Treatment of Epicondylitis With Mini-Invasive Techniques
Sorrentino, Fortunato*; Iovane, Angelo; Nicosia, Antonio; Sutera, Raffaello; Midiri, Massimo; Lagalla, Roberto

4:42 PM–4:54 PM
407990 Vascular Complications Following Renal Transplantation: Imaging Findings and Their Role in the Management of Vascular Complications
Patel, Bhargavi; Martinez, Brandon K.*; Khosla, Anil; West, Derek; Wilbur, Andrew; Garvin, Paul

4:54 PM–5:06 PM
407316 Safety and Efficacy of Ultrasound-Guided Native Kidney Biopsies Using 15-Gauge Automated Cutting Needles in Children
Nakamoto, Dean A.; Akhtar, Nila J.*; Azar, Nami; Prologo, J. D.; Dell, Katherine M.; Vogt, Beth A.; Davis, Ira D.

5:06 PM–5:15 PM
410248 Ultrasound-Guided Balloon Angioplasty of Hemodialysis Fistulas (CR)
Kennedy, Tara; Blebea, John*; Wang, John; Brennan, Rebecca

5:15 PM–5:29 PM
414013 Safety of Ultrasound-Guided Fine-Needle Aspiration of Thyroid and Other Neck Masses in Patients on Anticoagulants
Wu, Andrew *; Martin, Jason; Abu-Yousef, Monzer; Peterson, Grant; Laroia, Archana
Musculoskeletal Ultrasound
Moderators: David Fessell, MD, and William Medford, RDMS
San Diego B · North Tower/Lobby Level

4:30 PM–4:42 PM
428716 Clinical Use of Ultrasound by the Orthopedic Foot and Ankle Surgeon
Reach, John S.*; Easley, Mark; Nunley, James

4:42 PM–4:54 PM
428713 Accuracy of Ultrasound-Guided Injections in the Foot and Ankle
Reach, John S.*; Nunley, James; Chuckpaiwong, Bavornrit; Easley, Mark

4:54 PM–5:06 PM
408077 Ultrasound Characteristics of Morel-Lavallee Lesions
Neal, Colleen*; Jacobson, Jon A.; Brandon, Catherine; Girish, Gandikota; Morag, Yoav; Kalume-Brigido, Monica

5:06 PM–5:18 PM
411011 Contrast-Enhanced Ultrasound in the Assessment of Prostaglandin Effects on Microvascular Reactivity in Systemic Sclerosis
Sorrentino, Fortunato*; Campisi, Antonella; Salvaggio, Giuseppe; Ienzi, Raffaele; Caruso, Giuseppe; Lagalla, Roberto

5:18 PM–5:30 PM
410349 The Cellularlike Resolution of Ultrasonography in Soft Tissue Tumors
Chiou, Hong-Jen*; Chou, Yi-Hong; Chen, Wei-Ming; Chen, Paul C. H.; Wang, Hsin-Kai; Chiu, See-Ying

4:30 PM–5:30 PM
Just Images Session: Obstetric Ultrasound
Marriott Halls 3 and 4 · North Tower/Marriott Pavilion/Lobby Level
Reuben Achiron, MD

7:30 PM–11:00 PM
Leadership Banquet
Seaview · South Tower/Second Level
(by invitation only)
2009 AIUM Annual Convention and Preconvention Program

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Dates to Remember for the 2009 AIUM Annual Convention

June 4, 2008
Abstract submission opens—submit your abstract online at www.aium.org

September 26, 2008
Deadline to submit your abstract

October 15, 2008
Convention registration opens

April 2–5, 2009
2009 AIUM Annual Convention and Preconvention Program
New York Marriott Marquis Hotel in Times Square

Don’t miss this chance to discover the many opportunities that the AIUM and New York City can provide for you and your career in ultrasound.

Earn more than 30 AMA PRA Category 1 Credits™ or ARRT Category A Credits!
Saturday, March 15
Convention

Schedule at a Glance

6:30 AM–5:00 PM  Registration Open
7:00 AM–8:00 AM  Meet-the-Professor Sessions
8:15 AM–10:15 AM  Categorical Courses
8:15 AM–10:15 AM  Accreditation “Getting Started” Workshop
8:30 AM–9:00 AM  Exhibit Advisory Committee Meeting
9:30 AM–1:30 PM  Exhibit Hall Open
10:15 AM–11:15 AM  Refreshment Break
11:15 AM–12:15 PM  Film Panel Sessions
12:30 PM–1:30 PM  Meet-the-Professor Sessions
12:30 PM–1:30 PM  Scientific Poster Discussion
1:45 PM–3:15 PM  Categorical Courses
1:45 PM–3:00 PM  Executive Committee Meeting
3:15 PM–3:30 PM  AIUM Business Meeting
3:30 PM–5:00 PM  Scientific Sessions
3:30 PM–5:00 PM  Just Images Sessions: General and Abdominal Ultrasound and Emergency and Critical Care Ultrasound
5:15 PM–8:00 PM  Board of Governors Meeting
**Meet-the-Professor Sessions**

Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 71.

- **SA1** Three- and 4-Dimensional Cardiac Imaging  
  Alfred Abuhamad, MD  
  Leucadia · South Tower/Level 1

- **SA2** Ultrasound of the Pediatric Spine  
  Brian Coley, MD  
  Oceanside · South Tower/Level 1

- **SA3** Can We Piggyback an Anatomy Scan Onto the Nuchal Translucency Scan?  
  Ilan Timor-Tritsch, MD  
  Point Loma · South Tower/Level 1

- **SA4** Cervical Sonography and Prematurity: A Gestational Age-Specific and Case-Based Approach  
  Joseph Wax, MD  
  Solana · South Tower/Level 1

- **SA5** Lung Ultrasonography in Critically Ill Patients  
  Daniel Lichtenstein, MD  
  Pacific · South Tower/Level 1

**Categorical Courses**

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

- **Abdominal Aortic Aneurysms: Setting Up a Screening Program With Workshop**  
  **Moderator:** M. Robert De Jong, RDCS, RDMS, RVT  
  Marriott Hall 4 · North Tower/Marriott Pavilion/Lobby Level

  The goal of this course is to describe the sonographic evaluation of abnormalities of abdominal aortic aneurysms. Particular emphasis will be given to the practicality and logistics of screening programs.

  - **8:15 AM – 8:50 AM** Abdominal Aortic Aneurysm Scanning Protocols and Measuring Techniques  
    M. Robert De Jong, RDCS, RDMS, RVT

  - **8:50 AM – 9:25 AM** Epidemiology of an Abdominal Aortic Aneurysm Screening Program  
    Mark Lockhart, MD, MPH

  - **9:25 AM – 10:00 AM** Logistics and Organization  
    Monzer Abu-Yousef, MB, BCh, ABR

  - **10:00 AM – 10:15 AM** Panel Discussion
Accreditation “Getting Started” Workshop
Moderator: Paula Woletz, MPH, RDMS, RDCS
San Diego A • North Tower/Lobby Level
At the end of this course, participants will have learned how to complete the ultrasound practice accreditation process. The course will also answer many of the most commonly asked questions about accreditation. (Advance registration is required.)

Fetal and Neonatal Intracranial Hemorrhage: Imaging, Classification, and Neurologic Outcome
Moderator: Judy Estroff, MD
San Diego B • North Tower/Lobby Level
The participant will understand the varied presentation of fetal and neonatal intracranial hemorrhage (ICH), learn the various classification systems in use for ICH, and understand the range of neurologic outcomes in fetal and neonatal ICH.

8:15 AM–8:45 AM  Intracranial Hemorrhage in the Fetus
Carol Barnewolt, MD

8:45 AM–9:15 AM  Intracranial Hemorrhage in the Newborn: Detection and Classification
Lynn Fordham, MD

9:15 AM–9:45 AM  Intracranial Hemorrhage in the Newborn: When to Go on to Computed Tomography and Magnetic Resonance Imaging
Beth Kline-Fath, MD

9:45 AM–10:15 AM  Neurologic Outcome in the Fetus and Newborn With Intracranial Hemorrhage
Adre du Plessis, MD

How to Improve the Efficiency and Productivity of Your Obstetrics and Gynecology Practice: Opinions From the Experts, Including Thoughts on the Advanced Practice Sonographer
Moderator: Beryl Benacerraf, MD
Marriott Hall 3 • North Tower/Marriott Pavilion/Lobby Level
The first part of this course will discuss who and what an advanced practice sonographer is and how that person would fit into your practice; what goes into the training of an advanced practice sonographer and what that person can and cannot do; and the different ways in which the role of the advanced practice sonographer has been implemented in several clinical practices. The second part of the course will discuss how to optimize the patient throughput in your facility, including tricks to make the process more efficient; how to provide high-level care while optimizing your own time; and how to use the help you have more effectively. The panelists will briefly discuss the 3 or 4 concepts that they feel are important contributors to running an efficient ultrasound practice.


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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>8:15 AM–8:25 AM</td>
<td>Introduction and Background</td>
<td>Jean Spitz, MPH, RDMS</td>
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<td>8:25 AM–8:35 AM</td>
<td>Education and How It Works in a Radiology Practice</td>
<td>Carol Benson, MD</td>
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<td>8:35 AM–8:45 AM</td>
<td>An Obstetric Practice</td>
<td>Gregory DeVore, MD</td>
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<tr>
<td>8:45 AM–8:55 AM</td>
<td>How It Began 25 Years Ago</td>
<td>Beryl Benacerraf, MD</td>
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<td>8:55 AM–9:25 AM</td>
<td>Four Things That I Consider Important to Running an Ultrasound Practice</td>
<td>Ilan Timor-Tritsch, MD</td>
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<td>9:25 AM–9:35 AM</td>
<td>Four Things That I Consider Important to Running an Ultrasound Practice</td>
<td>Alfred Abuhamad, MD</td>
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<td>9:55 AM–10:15 AM</td>
<td>Panel Discussion</td>
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### Molecular Imaging With Ultrasound: Part 1

*San Diego C - North Tower/Lobby Level*

The objective of the course is to familiarize clinicians, scientists, and sonographers with the latest techniques for molecular imaging, targeted contrast agents, and applications using both high-frequency and conventional ultrasound techniques. Clinical applications include intravascular ultrasound imaging of coronary arteries, perfusion imaging, assessment of blood flow, detection of thrombi, and detection of tumors or other disease. The latest advances in molecular imaging in ultrasound will be presented, as well as the contribution of ultrasound to molecular imaging compared to other imaging modalities (positron emission tomography, magnetic resonance imaging, computed tomography, and optical imaging). How ultrasound molecular imaging techniques will be exploited in therapeutic interventions will also be presented.

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<th>Time</th>
<th>Session Title</th>
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<tr>
<td>8:15 AM–8:35 AM</td>
<td>Introduction: Role of Ultrasound in Molecular Imaging</td>
<td>Robert Mattrey, MD</td>
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<tr>
<td>8:35 AM–8:55 AM</td>
<td>Molecular Imaging of Mice With High-Frequency Micro-Ultrasound</td>
<td>F. Stuart Foster, PhD</td>
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<tr>
<td>8:55 AM–9:15 AM</td>
<td>Quantitation of Flow Dynamics and Density With Ultrasound Contrast Agents</td>
<td>Katherine Ferrara, PhD</td>
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<tr>
<td>9:15 AM–9:35 AM</td>
<td>Targeted Contrast Agents at High Frequencies</td>
<td>David Goertz, PhD</td>
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</table>
Shoulder Ultrasound: Hands-on Course
Moderator: Jon Jacobson, MD
Marriott Hall 1 · North Tower/Marriott Pavilion/Lobby Level
The objective of this course is to review the ultrasound scanning technique of the shoulder. This course will begin with a projected shoulder scanning demonstration of the normal shoulder and rotator cuff. Following this, participants will practice ultrasound scanning of the shoulder using ultrasound equipment and live models with the assistance of an instructor. Although not required, attendance at the Categorical Course “Shoulder Ultrasound” on Friday, March 14, will help reinforce anatomy and the scanning technique. At the conclusion of this course, participants will be able to list and perform the basic or fundamental steps of a shoulder ultrasound examination.

Women’s Imaging Course
Moderator: Cindy Rapp, BS, RDMS
Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level
This course will cover how to optimize breast sonography, how to perform normal fetal echocardiography, and how to optimize those “tough-to-get” obstetric and gynecologic images.

Optimization of Breast Sonography
Cindy Rapp, BS, RDMS

How to Perform a Normal Fetal Echocardiogram
Julia Drose, BA, RT, RDMS, RVT, RDCS

How to Optimize Obstetric Sonography
Diana Strickland, BS, BA, RDMS, RDCS

Old Dogs, New Tricks: How to Optimize Gynecologic Sonography
Sharon Hughes, BSRT, RDMS
10:15 AM–11:15 AM

**Refreshment Break in the Exhibit Hall**

11:15 AM–12:15 PM

**Film Panel Sessions**

**General Imaging Film Panel**
Marriott Hall 3 · North Tower/Marriott Pavilion/Lobby Level
Chair: Franklin Tessler, MD, CM
Panelists: Beverly Hashimoto, MD, Michelle Robbin, MD, and Mitchell Tublin, MD

**Obstetric Imaging Film Panel**
Marriott Hall 4 · North Tower/Marriott Pavilion/Lobby Level
Chair: Jude Crino, MD
Panelists: Rochelle Andreotti, MD, Audrey Fleming, RDMS, RVS, and Joseph Wax, MD

12:30 PM–1:30 PM

**Meet-the-Professor Sessions**

Five concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out. MTP session objectives begin on page 71.

**SP1**  Diagnosis of Fetal Cardiac Anomalies  
Carol Benson, MD  
Leucadia · South Tower/Level 1

**SP2**  Update on Ultrasound-Guided Radio Frequency Ablation  
John McGahan, MD  
Oceanside · South Tower/Level 1

**SP3**  Genetic Sonography After First-Trimester Risk Assessment  
David Nyberg, MD  
Point Loma · South Tower/Level 1

**SP4**  Doppler Ultrasound Versus the Biophysical Profile in Timing the Delivery of the Preterm Growth-Restricted Fetus  
Anthony Odibo, MD  
Pacific · South Tower/Level 1

**SP5**  Ultrasound and Reproductive Medicine  
Elizabeth Puscheck, MD, MS  
Solana · South Tower/Level 1
1:45 PM–3:15 PM  
**Categorical Courses**

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

- **Basic Screening, Advanced, Doppler, Spatiotemporal Image Correlation, and 3-Dimensional Ultrasound**  
  **Moderator:** Lami Yeo, MD  
  **Marriott Hall 3 · North Tower/Marriott Pavilion/Lobby Level**
  This course will review ultrasound modalities used to examine the fetal heart, which include B-mode, pulsed and color Doppler, and 3- and 4-dimensional ultrasound.

  1:45 PM–2:25 PM  
  Optimizing the Basic Examination of the Fetal Heart by Utilizing Advanced Techniques  
  **Gregory DeVore, MD**

  2:25 PM–2:45 PM  
  Normal Case Demonstrations: Step-by-Step Approach  
  **Alfred Abuhamad, MD**

  2:45 PM–3:05 PM  
  Abnormal Fetal Cardiac Case Demonstrations: Step-by-Step Approach  
  **Mark Sklansky, MD**

  3:05 PM–3:15 PM  
  Questions and Answers

- **High-Frequency Intravascular Ultrasound**  
  **Moderators:** Gregory Czarnota, MD, PhD, and Michael Kolios, PhD  
  **Columbia · North Tower/Lobby Level**
  The objective of this course is to review the state of the art in intravascular ultrasound research and related clinical applications.

  1:45 PM–2:05 PM  
  Clinical Applications and Technological Advances in Intravascular Ultrasound  
  **Brian Courtney, PhD**

  2:05 PM–2:25 PM  
  Atherosclerotic Plaque Characterization Using Intravascular Ultrasound (IVUS) Palpography and Harmonic IVUS  
  **Ton van der Steen, PhD, MSc**

  2:25 PM–2:45 PM  
  High-Frequency Intravascular Photoacoustic Imaging  
  **Stanislav Emelianov, PhD**
Molecular Imaging With Ultrasound: Part 2
Moderators: Michael Oelze, PhD, and Robert Mattrey, MD
San Diego C · North Tower/Lobby Level

The objective of this course is to familiarize clinicians, scientists, and sonographers with the latest techniques for molecular imaging, targeted contrast agents, and applications using both high-frequency and conventional ultrasound techniques. Clinical applications include intravascular ultrasound imaging of coronary arteries, perfusion imaging, assessment of blood flow, detection of thrombi, and detection of tumors or other disease. The latest advances in molecular imaging in ultrasound will be presented, as well as the contribution of ultrasound to molecular imaging compared to other imaging modalities (positron emission tomography, magnetic resonance imaging, computed tomography, and optical imaging). How ultrasound molecular imaging techniques will be exploited in therapeutic interventions will also be presented.

1:45 PM–2:05 PM   Complex Microbubbles for Molecular Imaging and Therapy
                   Alexander Klibanov, PhD

2:05 PM–2:25 PM   Molecular Imaging With Ultrasound Contrast Agents
                   Jonathan Linder, MD

2:25 PM–2:45 PM   Ultrasound Contrast in Sonothrombolysis
                   Christy Holland, PhD

2:45 PM–3:05 PM   Using Ultrasound Molecular Imaging Principles for Diagnosis and Therapy: Panel Discussion
                   Moderator: Robert Mattrey, MD

Pediatric New Horizons and Interventional Ultrasound
Moderator: Lynn Fordham, MD
San Diego A · North Tower/Lobby Level

The objective of this course is to review new applications in pediatric ultrasound imaging and in pediatric ultrasound-guided interventions.

1:45 PM–2:15 PM   Pediatric Interventional Ultrasound
                   Brian Coley, MD

2:15 PM–2:45 PM   Ultrasound of Anorectal Malformations
                   Steve Kraus, MD

2:45 PM–3:15 PM   Ultrasound of the Voiding Cystourethrogram
                   Kassa Darge, MD
Peripheral Venous and Arterial Disease

Moderators: Beatrice Madrazo, MD, RVT, and M. Robert De Jong, RDCS, RDMS, RVT

Marriott Halls 5 and 6 · North Tower/Marriott Pavilion/Lobby Level

At the end of this course, participants will be able to discuss in detail venous insufficiency and its therapy, to elaborate on the role of indirect and direct testing in peripheral arterial pre- and post-therapeutic options, and to detail venous evaluation of the upper and lower extremities.

1:45 PM–2:00 PM Upper Extremity Venous: Normal and Abnormal
M. Robert De Jong, RDCS, RDMS, RVT

2:00 PM–2:15 PM Lower Extremity Venous: Normal and Abnormal
Marsha Neumyer, BS, RVT

2:15 PM–2:30 PM Thrombophilia: Arterial and Venous Thrombosis
John Blebea, MD

2:30 PM–2:45 PM Peripheral Artery Disease: Indirect Testing
Marsha Neumyer, BS, RVT

2:45 PM–3:00 PM Peripheral Artery Disease: Diagnosis and Post-Therapy Surveillance
Gene Doverspike, RVT, RDMS

3:00 PM–3:15 PM Questions and Answers

Problem Solving in the Adnexa

Moderator: Arthur Fleischer, MD

Marriott Hall 4 · North Tower/Marriott Pavilion/Lobby Level

Following this course, participants will be able to describe the optimal use of sonography for the evaluation of common adnexal disorders, such as ectopic pregnancy, pelvic pain, and adnexal masses. Participants will also be familiarized with and updated in the optimal use of various sonographic techniques relative to other imaging modalities, such as computed tomography and magnetic resonance imaging.

1:45 PM–2:15 PM Sonography of Ectopic Pregnancy
Barbara Hertzberg, MD

2:15 PM–2:45 PM Sonographic Evaluation of Acute Pelvic Pain
Rochelle Andreotti, MD

2:45 PM–3:15 PM Optimizing Sonographic Evaluation of Adnexal Masses
Arthur Fleischer, MD
Topics in Emergency and Critical Care Ultrasound: Part 2
Moderator: Michael Blaivas, MD
San Diego B · North Tower/Marriott Pavilion/Lobby Level

This is part 2 of a 2-part Categorical Course involving the use of ultrasound in the emergency and critical care setting. Part 2 will feature three topics: (1) the use of ultrasound in diagnosing soft tissue infections, with an emphasis on identifying life-threatening conditions such as necrotizing fasciitis and guiding appropriate interventions; (2) use of ultrasound in acute right upper quadrant pain, including tips and pitfalls for this potentially challenging examination; and (3) how sonography can aid (or perhaps should not aid) in the resuscitation and therapy of patients in cardiopulmonary arrest.

1:45 PM–2:15PM
Emergent Ultrasound of Skin and Soft Tissues
Vivek Tatal, MD

2:15 PM–2:45PM
Pearls and Pitfalls in the Sonographic Evaluation of Acute Right Upper Quadrant Pain
Leslie Scoutt, MD

2:45 PM–3:15PM
Use of Sonography in Diagnosing and Treating the Patient in Cardiopulmonary Arrest
Srikar Adhikari, MD

3:30 PM–5:00 PM
Scientific Sessions

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

Basic Science and Instrumentation
Moderators: Evan Boote, PhD, and Ernest Madsen, PhD
Marriott Hall 4 · North Tower/Marriott Pavilion/Lobby Level

3:30 PM–3:42 PM
410433 Automated Ultrasound Quality Assurance Tests Using Void Phantoms and Image Deconvolution to Evaluate the Point Spread Function
Boote, Evan

3:42 PM–3:54 PM
409944 Contact Force Measurement for Breast Ultrasound Elastography
Kiessel, Lee M.; Hall, Timothy J.*; Jiang, Jingfeng
3:54 PM–4:06 PM
409485 **Trial Fabrication and Performance Estimation of an Ultra-minature 1-Dimensional Array Ultrasound Probe With Hydrothermally Synthesized Lead Zirconate Titanate Film Transducers**
Takeuchi, Shinichi*; Endo, Akito; Irisawa, Shinya; Kurosawa, Minoru K.; Kawashima, Norimichi

4:06 PM–4:18 PM
410863 **Sound Speed Images From B-Mode Images**
Nebeker, Jakob*; Nelson, Thomas R.

4:18 PM–4:30 PM
410687 **Sequential Volume Change Estimation of Breast Tumors From Whole-Breast Automated Ultrasound by Reader Study and Image-Based Registration**
Narayanasamy, Ganesh; LeCarpentier, Gerald L.*; Roubidoux, Marilyn A.; Yang, Zhi; Schott, Anne F.; Fowlkes, J. Brian; Carson, Paul L.

4:30 PM–4:42 PM
410005 **Higher-Shear Loss Phantom Materials for Acoustic Radiation Force Impulse Imaging and Magnetic Resonance Elasography**
Madsen, Ernest L.*; Hobson, Maritza A.; Frank, Gary R.; Hall, Timothy A.

4:42 PM–4:54 PM
409169 **Multistep Hybrid 2-Dimensional Cross-correlation for Ultrasound Sector and/or Phased Array Data**
Chen, Hao*; Varghese, Tomy

**Basic Science: High-Frequency Ultrasound**
Moderators: Michael Kolios, PhD, and Peter Burns, PhD
Marriott Halls 3 and 6 · North Tower/Marriott Pavilion/Lobby Level

3:30 PM–3:42 PM
408958 **Magnetic Resonance Measurement of Temperature Near Boiling Induced by High-Intensity Focused Ultrasound**
Khokhlova, Tatiana D.; Canney, Michael S.; Lee, Donghoon; Marro, Kenneth I.; Khokhlova, Vera A.; Bailey, Michael R.*

3:42 PM–3:54 PM
402727 **In Vivo Ultrasonic Attenuation Estimates for Detecting Cervical Ripening in Rats: Algorithm Development and Preliminary Results**
Bigelow, Timothy A.*; McFarlin, Barbara L.; O’Brien, William D., Jr; Oelze, Michael
3:54 PM–4:06 PM
411728 High-Frequency Ultrasound: Detection and Differentiation of Apoptosis and Necrosis During Cancer Therapy
Ranieri, Shawn*; Vlad, Roxana; Debeljevic, Branislav; Giles, Anoja; Kolios, Michael C.; Czarnota, Gregory J.

4:06 PM–4:18 PM
410714 Feasibility Study of High-Intensity Focused Ultrasound Treatment of Recurrent Prostate Cancer Following Radiation Therapy
Sanghvi, Narendra T.*; Koch, Michael O.; Gardner, Thomas; Grunberger, Ivan; Fedewa, Russell J.; Seip, Ralf

4:18 PM–4:30 PM
411725 Monitoring Photodynamic Therapy and Chemotherapy Effects in Tumors Using High-Frequency Spectroscopic Ultrasound
Banihashemi, Behzad; Cho, Charles; Papanicolau, Naum; Debeljevic, Branislav; Vlad, Roxana; Giles, Anoja; Kolios, Michael C.; Czarnota, Gregory J.*

4:30 PM–4:42 PM
407168 High-Frequency Ultrasound and Optical Coherence Tomographic Imaging of Necrotic Cell Death
Farhat, Golnaz*; Mariampillai, Adrian; Yang, Victor X. D.; Czarnota, Gregory J.; Kolios, Michael C.

4:42 PM–4:54 PM
391385 Microbubble and Ultrasound Enhancement of Radiation-Induced Tumor Cell Death In Vivo
Czarnota, Gregory J.*; Karshafian, Raffi; Giles, Anoja; Banihashemi, Behzad; Lee, Justin; Burns, Peter

Emergency Ultrasound
Moderator: Romolo Gaspari, MD, MS
San Diego A · North Tower/Lobby Level

3:30 PM–3:42 PM
410430 Validation of a Web-Based Competency Assessment for Interpretation of the Focused Assessment With Sonography for Trauma Examination
Moore, Christopher L.*; Markowitz, Joshua

3:42 PM–3:54 PM
410381 Bedside Emergency Physician Determination of Cardiac Output in Severe Sepsis
Hwang, James*; Chang, Jason; Wira, Charles; Sather, John; Osborne, Michael; Moore, Christopher L.
3:54 PM–4:06 PM
410641 ETUDES-2 (Emergency Thoracic Ultrasound in the Differentiation of Etiologies of Shortness of Breath): Thoracic B-Lines Correlated With Diagnosis of Congestive Heart Failure
Liteplo, Andrew*; Miller, Robert; Villen, Tomas; Capp, Roberta; Higgins, Caitlin; Croft, Peter; Noble, Vicki E.

4:06 PM–4:18 PM
381298 Focused Training of Emergency Medicine Residents in Bedside Thoracic Ultrasound: Assessment for Pneumothorax
Adhikari, Srikar*; Zeger, Wes; Lomneth, Carol; Meza, Jane

4:18 PM–4:30 PM
411655 Focused Assessment With Sonography for Trauma Exam by Prehospital Providers Under Real-time Remote Physician Guidance
Boniface, Keith*; Smith, Reed; Breit, Aaron

4:30 PM–4:42 PM
409622 ETUDES-1 (Emergency Thoracic Ultrasound in the Differentiation of Etiologies of Shortness of Breath): Thoracic B-Lines Correlated With \( \text{NH}_2 \)-Terminal Prohormone Brain Natriuretic Peptide
Liteplo, Andrew*; Miller, Robert; Capp, Roberta; Higgins, Caitlin; Croft, Peter; Villen, Tomas; Noble, Vicki E.

4:42 PM–4:54 PM
410592 Man Versus Machine: Using Computer Decision Support Software to Diagnose Pneumothorax by Ultrasound in the Prehospital System
Noble, Vicki E.*; Morse, Christopher R.; Szabo, Thomas L.

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Obstetrics: Fetal Growth Ultrasound

Moderators: Joseph Wax, MD, and J. Oscar Barahona, BS, RDMS
Marriott Hall 3 · North Tower/Marriott Pavilion/Lobby Level

3:30 PM–3:42 PM
411986 Soft Tissue Parameters Improve Fetal Weight Estimation in Macrosomic Fetuses
Lee, Wesley*; Balasubramaniam, Mamtha; Deter, Russell L.; Gonçalves, Luís; Espinoza, Jimmy; Gotsch, Francesca; Hassan, Sonia S.

3:42 PM–3:54 PM
408894 Is Ultrasound Assessment of Fetal Weight Influenced by Formula Selection?
Burd, Irina*; Pare, Emmanuelle; Srinivas, Sindhu; Wang, Eileen

3:54 PM–4:06 PM
412340 Biophysical Profile in the Management of Intrauterine Growth-Restricted Fetuses With Birth Weights of Less Than 1000 g
Kaur, Satinder*; Hanif, Farhan; Drennan, Kathryn J.; Chadha, Rati; Kruger, Michael; Mari, Giancarlo
4:06 PM–4:18 PM
411205 Ductus Venosus Reversed Flow in Intrauterine Growth-Restricted Fetuses: Is It an Indication for Delivery at Less Than 30 Weeks’ Gestation?
Picconi, Jason L.*; Drennan, Kathryn; Hanif, Farhan; Mari, Giancarlo

4:18 PM–4:30 PM
411526 Ductus Venosus Reversed Flow and Arterial Cord pH in Fetuses Delivered at Less Than 30 Weeks and Weighing Less Than 750 g
Hanif, Farhan*; Drennan, Kathryn; Picconi, Jason; Mari, Giancarlo

4:30 PM–4:42 PM
394114 Ultrasound Accuracy of Estimated Fetal Weight in Pregnancies Complicated by Intrauterine Growth Restriction
Blumenfeld, Yair J.*; Pullen, Kristin; Lee, Henry; Wong, Amy; Pettit, Kate; Taslimi, Masoud

4:42 PM–4:54 PM
412032 Can Individualized Growth Assessment Models Be Specified by Using Earlier Scans?
Lee, Wesley*; Deter, Russell L.; Sameera, Sameera; Gonçalves, Luis F.; Espinoza, Jimmy; Gotsch, Francesca; Hassan, Sonia S.; Romero, Roberto

3:30 PM–5:00 PM
Just Images Session: Emergency and Critical Care Ultrasound
Leslie Scoutt, MD, Jamal Bokhari, MD, and J. Christian Fox, MD, RDMS
San Diego B · North Tower/Lobby Level

Just Images Session: General and Abdominal Ultrasound
Kristin McKinney, MD, and Philip Ralls, MD
San Diego C · North Tower/Lobby Level
Meet-the-Professor Sessions

Thursday, March 13, 2008
7:00 AM–8:00 AM

TA1 Obstetric Ultrasound: How to Keep It Safe?
Jacques Abramowicz, MD
Oceanside · South Tower/Level 1

Following this session, participants will be able to discuss the bioeffects of ultrasound, assess how changing scanner controls alters output, and identify ways to prevent undesired results.

TA2 Fetal Echo in Aneuploidy
Gregory DeVore, MD
Leucadia · South Tower/Level 1

The purpose of this session is to review the use of fetal echocardiography to detect fetuses with aneuploidy (trisomies 13, 18, and 21) during the second-trimester genetic sonogram.

TA3 Update on the Sonographic Early Detection of Ovarian Cancer
Arthur Fleischer, MD
Point Loma · South Tower/Level 1

Following this session, participants will be able to describe the data on studies concerning the efficiency of using sonography as a means for early detection of ovarian cancer and to identify the potentials and limitations of conventional and newer sonographic techniques for early detection of ovarian cancer.

TA4 Coding in Obstetric Ultrasound
Andrew Helfgott, MD
Solana · South Tower/Level 1

Following this session, participants will have a clearer understanding of coding for obstetric ultrasound and have a working knowledge of Current Procedural Terminology coding for obstetric ultrasound.

TA5 Multiple Cesareans and Accreta: An Imaging and Management Challenge
Thomas Moore, MD
Pacific · South Tower/Level 1

At the conclusion of this session, participants will be able to understand the risk factors for placenta accreta, explain the range of morbidity with diagnosed or undiagnosed delivery of placenta accreta, describe the findings on ultrasound that have the highest sensitivity in predicting invasive placentaion, describe the advantages and disadvantages of gadolinium in magnetic resonance imaging (MRI) of suspected placenta accreta, and describe the findings on MRI that have the highest sensitivity in predicting invasive placitation.

TA6 Venous Reflux: Ultrasound Diagnosis and Treatment
David Lee, MD
Torrey 1 · North Tower/Lobby Level

Following this session, participants will be able to describe the superficial venous anatomy of the lower extremity, assess the lower extremity veins for reflux using Doppler ultrasound, and discuss the nonsurgical options for treatment of lower extremity varicose veins.

TA7 The Athlete’s Groin
Marnix van Holsbeeck, MD
Anaheim · North Tower/Marriott Pavilion/Lobby Level

Following this session, participants will be able to discriminate causes of groin pain using ultrasound.

TA8 Consumer-Directed Health Care: Creating a Practice That Results in Patient Loyalty and Referrals
Robert Wolfson, MD, PhD
Torrey 3 · North Tower/Lobby Level

Consumer-directed health care continues to gain momentum. Health care is now about the experience. Participants will learn about the experience that patients seek and specific actions to take to ensure consistently satisfied patients and referring physicians.
Thursday, March 13, 2008
11:45 AM–12:45 PM
TP1 Transesophageal Echo and Transthoracic Echo Use in Resuscitation
Michael Blaivas, MD, RDMS
Pacific · South Tower/Level 1
Following this session, participants should be able to discuss transesophageal echo (TEE) use in resuscitation, pitfalls common to transthoracic echo (TTE) and TEE, and common TTE/TEE findings in resuscitation.

TP2 Postabortion and Postpartum Ultrasound
Douglas Brown, MD
Leucadia · South Tower/Level 1
Following this session, participants will be able to describe the most useful sonographic features for identifying retained products of conception and discuss features unique to the post–cesarean delivery patient.

TP3 Thyroid Fine-Needle Aspiration: Why, When, and How?
Mark Lockhart, M.D., MPH
Oceanside · South Tower/Level 1
After this session, participants will be able to understand the indications and clinical settings that lead to thyroid fine-needle aspiration (FNA). This session will enable them to access FNA techniques.

TP4 Basic Screening for Congenital Heart Disease in Clinical Practice
Mark Sklansky, M.D.
Point Loma · South Tower/Level 1
Following this session, participants will be able to identify the major problems with current screening methods for fetal heart disease.

TP5 First-Trimester, Integrated, Sequential, and Contingent Risk Assessment for Down Syndrome: What Does It Mean?
Steven Warsof, MD
Solana · South Tower/Level 1
Following this session, participants will be able to counsel patients appropriately through the maze of new first-trimester risk assessment options for Down syndrome.

Friday, March 14, 2008
6:45 AM–7:45 AM
FA1 Controversies in Polycystic Ovary Syndrome: Diagnosis by Ultrasound
Misty Blanchette Porter, MD
Leucadia · South Tower/Level 1
Following this session, participants will be able to discuss the criteria for establishing the diagnosis of polycystic ovary syndrome (PCOS), discuss the role of pelvic ultrasound in establishing the diagnosis of PCOS, and review the indications for endometrial biopsy in patients with a thickened endometrial echo.

FA2 Updates in Neonatal Neurosonology
Dorothy Bulas, MD
Oceanside · South Tower/Level 1
Following this session, participants will be able to describe advanced sonographic techniques that are useful in imaging the neonatal brain, including the use of the transmastoid view and Doppler sonography.

FA3 Is It Real or Is It an Artifact?
Peter L. Cooperberg, MD, CM, FRCPC
Anaheim · North Tower/Marriott Pavilion/Lobby Level
After this session, participants will learn to appreciate how the physical principles of ultrasound can cause echoes to appear on the image that do not necessarily reflect the actual position or intensity of the actual interface in the body. Participants will then be able to avoid misdiagnosing abnormalities that are actually artifacts and avoid missing abnormalities that look like artifacts.

FA4 Color Flow Doppler Ultrasound of the Fetal Heart
Lisa Hornberger, MD
Point Loma · South Tower/Level 1
Following this session, participants will be able to understand the role of color flow Doppler in the evaluation of structural and functional fetal cardiovascular disease and in cardiac screening.

FA5 Ultrasound and Magnetic Resonance Imaging of Central Nervous System Anomalies
Deborah Levine, MD
Solana · South Tower/Level 1
Following this session, participants will be able to describe the types of central nervous system anomalies for which magnetic resonance imaging adds additional information beyond that available with ultrasound.

FA6 Vascular Protocols and Interpretation Criteria
Laurence Needleman, MD
Pacific · South Tower/Level 1
Following this session, participants will be able to describe the necessary components to document and interpret carotid, lower extremity venous, upper extremity venous, arterial, and renal arterial duplex scans.
Friday, March 14, 2008
12:15 PM–1:15 PM
FP1 Microbubble Contrast Agents and Their Clinical Use
Peter Burns, PhD
Oceanside · South Tower/Level 1
After this session, participants will be able to discuss the use of microbubble ultrasound contrast agents for clinical applications.

FP2 Early Pregnancies of Unknown Location: An Increasing Trend
Steven Goldstein, MD
Leucadia · South Tower/Level 1
Following this session, participants will be able to identify the widening gap between biochemical and sonographic detection of early pregnancies and the clinical problems this presents relative to normal early pregnancies versus failed pregnancies. Participants will also learn about a new entity, pregnancy of unknown location, as a new wrinkle in the old “rule out ectopic” procedure.

FP3 Sonography of Inguinal Hernias
David Jamadar, MBBS, FRCR
Pacific · South Tower/Level 1
Following this session, participants will be able to identify the sonographic anatomy of the inguinal region, allowing identification and diagnosis of inguinal hernias.

FP4 Cardiac Abnormalities Seen in the 4-Chamber Heart
John McGahan, MD
Solana · South Tower/Level 1
Following this session, participants will be able to identify major fetal cardiac defects, be aware of the pitfalls in outflow tract views, and understand newer views such as 5 short-axis views.

FP5 The Basic Fetal Cardiac Examination
Lami Yeo, MD
Point Loma · South Tower/Level 1
Following this session, participants will be able to understand and assess the fetal heart through a basic fetal cardiac examination.

Saturday, March 15, 2008
7:00 AM–8:00 AM
SA1 Three- and 4-Dimensional Cardiac Imaging
Alfred Abuhamad, MD
Leucadia · South Tower/Level 1
This session will describe 3-dimensional (3D) and 4D ultrasound of the fetal heart and present future developments within 3D and 4D ultrasound.

SA2 Ultrasound of the Pediatric Spine
Brian Coley, MD
Oceanside · South Tower/Level 1
After this session, participants will understand clinical indications, techniques, and limitations of pediatric spinal canal sonography, especially in neonates and young infants for an occult tethered spinal cord.

SA3 Can We Piggyback an Anatomy Scan Onto the Nuchal Translucency Scan?
Ilan Timor-Tritsch, MD
Point Loma · South Tower/Level 1
Measurement of nuchal translucency (NT) as part of the 11- to 14-week early screening is becoming the standard of care. Since the development of new high-resolution ultrasound probes as well as transvaginal probes, we are able to detect normal anatomy as well as pathology at these gestational ages. Therefore, it is logical to extend the NT scan to include a first-trimester anatomy scan. A large number of anomalies can be detected at this early age, enabling the patient and the obstetrician to plan for appropriate management of the pregnancy.

SA4 Cervical Sonography and Prematurity: A Gestational Age-Specific and Case-Based Approach
Joseph Wax, MD
Solana · South Tower/Level 1
Following this session, participants will be able to describe the correct technique of transvaginal cervical sonography and use this measurement in second- and third-trimester pregnancies.

SA5 Lung Ultrasonography in Critically Ill Patients
Daniel Lichtenstein, MD
Pacific · South Tower/Level 1
The purpose of this session is to make attendees familiar with lung ultrasonographic applications allowing diagnosis of pneumothorax, alveolar consolidation, and interstitial syndrome and their role in assessing critically ill patients.
Saturday, March 15, 2008
12:30 PM–1:30 PM
SP1  Diagnosis of Fetal Cardiac Anomalies
Carol Benson, MD
Leucadia · South Tower/Level 1

After attending this session, participants will understand how to evaluate the fetal heart to assess for cardiac anomalies. They will be able to recognize the various ultrasound views that are used to assess fetal cardiac anatomy, will recognize the appearance of an abnormal fetal heart, and will be able to understand some of the more common cardiac anomalies that occur. They will also learn about some of the innovative treatments being performed on fetuses with congenital heart anomalies that improve the outcomes for these fetuses.

SP2  Update on Ultrasound-Guided Radio Frequency Ablation
John McGahan, MD
Oceanside · South Tower/Level 1

Following this session, participants will be able to perform routine radio frequency ablation of solid organs, understand methods of avoiding complications of radio frequency ablation, and understand techniques used to perform difficult radio frequency ablations.

SP3  Genetic Sonography After First-Trimester Risk Assessment
David Nyberg, MD
Point Loma · South Tower/Level 1

Following this session, participants will be able to correlate a second-trimester anatomic survey and "genetic sonogram" with first-trimester screening results and estimate the overall risk for fetal aneuploidy. First-trimester screening results consider maternal age, nuchal translucency measurement, gestational age, and biochemical values of pregnancy-associated plasma protein A and human chorionic gonadotropin. Participants will be able to weight individual sonographic markers of the second-trimester genetic sonogram.

SP4  Doppler Ultrasound Versus the Biophysical Profile in Timing the Delivery of the Preterm Growth-Restricted Fetus
Anthony Odibo, MD
Pacific · South Tower/Level 1

Following this session, participants will be able to understand the use of Doppler ultrasound versus the biophysical profile (BPP) in monitoring growth-restricted pregnancies, discuss the utility of Doppler ultrasound versus the BPP in timing the delivery of the preterm growth-restricted fetus, and evaluate the pros and cons of the concept of integrated fetal testing.

SP5  Ultrasound and Reproductive Medicine
Elizabeth Puscheck, MD, MS
Solana · South Tower/Level 1

After this session, participants will be able to discuss the role of ultrasound in the initial evaluation and treatment of patients with common reproductive endocrine and infertility problems.
Scientific Poster Sessions

Marriott Hall 2 · North Tower/Marriott Pavilion/Lobby Level

Posters are available for viewing Thursday, March 13, 1:00 PM–7:30 PM, Friday, March 14, 7:00 AM–5:30 PM, and Saturday, March 14, 7:00 AM–5:00 PM. Authors will be available to discuss their research presented on the following posters on Friday, March 14, 12:15 PM–1:15 PM, and Saturday, March 15, 12:30 PM–1:30 PM. Posters are listed and displayed in numerical order, not by specialty. * indicates presenting author (1 CME credit per day during discussion).

Friday, March 14

388779  **Sonographic Spectrum of Spleenic Lesions**
Bhatt, Shweta*; Klekers, Ar; Simon, Rochelle; Dogra, Vikram

388782  **Sonographic Spectrum of Hydatid Disease**
Turgut, Ahmet T.; Akhan, Okan; Bhatt, Shweta; Dogra, Vikram*

390859  **Sonography of the Knee In Infants and Children, Part 1: Technique, Normal Anatomy, and Developmental Anomalies**
Koplewitz, Benjamin Z.*; Jarrin, Jose R.; Babyn, Paul S.

392813  **Observation of Gastric Variceal Flow Characteristics by Endoscopic Ultrasonography Using Color Doppler**
Sato, Takahiro*; Yamazaki, Katsu; Akaike, Jun; Toyota, Jouji; Karino, Yoshiyasu; Ohmura, Takumi

394098  **Novice Operator Ultrasound-Guided Central Venous Access: Phantom Model Assessment of Basic Skill Set Acquisition**
Lyon, Matthew*; Shiver, Stephen A.; Blaivas, Michael

396383  **Effect of Compression on Ultrasound Archival Video**
Lyon, Matthew*; McDougal, Patrick; Shiver, Stephen A.; Menckhoff, Carl

402576  **They’re Not Just Little Adults: Tips and Pitfalls in Scanning Unique Pediatric Exams**
Adams, Janet M.*; Gramke, Michelle

403690  **Sonographic Evaluation of Complicated Cholecystitis**
Dahiya, Nirvikar*; Teeey, Sharlene; Middleton, William D.; Robinson, Kathryn

406544  **Three-Dimensional Sonographic Findings Associated With Ectrodactyly- Ectodermal Dysplasia- Clefting Syndrome**
Allen, Lisa M.*; Maestri, Mary Jo; Silverman, Robert K.; Nosovitch, John T.; Lohnes, Tammy M.; Williams, Kathleen D.
Outcomes of a Universal Early Obstetric Ultrasound Program
Barrouk, Emile*; Trofatter, Kenneth F.; Mabie, Bill C.; Nuthalapaty, Francis S.

The Lung “Comet-Tail” Artifact: Observations Using a New Pocket-Sized Ultrasound Stethoscope, Hand-Carried, and Standard Cardiovascular Ultrasound Devices
Kimura, Bruce J.*; Eads, Emily D.

Use of 3-Dimensional Volume Rendering to Evaluate Perfusion in the Transplanted Liver
Ackerman, Susan J.*; Irshad, Abid; Kogos, Phillip; Harper, Angelle

Prostate Imaging by Vibro-Acoustography: An In Vitro Study
Alizad, Azra*; Mitri, Farid G.; Davis, Brian J.; Greenleaf, James F.; Fatemi, Mostafa

Radio Frequency Ablation and Contrast Imaging of Liver Tumors With Real-time 3-Dimensional Ultrasonography
Yamada, Masa-keiko*; Sano, Takatomo; Ichimura, Shigeki; Murashima, Eiga-ku; Taira, Junichi; Sugimoto, Katsutoshi; Metoki, Ryo; Furui-chi, Toshi-hiro; Imai, Yasuharu; Nakamura, Ikou; Mori-yasu, Fuminori

Pericardial Effusions Diagnosed by Bedside Ultrasound
Johnson, Ashley B.*; Lee, David C.; Bahl, Amit; Nelson, Mat; Chiricolo, Jerry; Chen, Jerrica; Raio, Chris; Sama, Andrew

Fundamental Investigation on Lead Zirconate Titanate (PZT) Polycrystalline Film for a Medical Ultrasound Transducer by a Hydrothermal Method: Relationship Between Repetition of Synthesis and Properties of Synthesized PZT Film
Takeuchi, Shinichi*; Ishii, Yasuhiro; Kawashima, Norimichi; Kurosawa, Minoru K.

How Often Is the Finding of Absent or Reversed End-Diastolic Flow in the Umbilical Artery Associated With Fetal Intrauterine Growth Restriction or Oligohydramnios?
Benoit, Richard M.*; Polanco, Bardo; DeVore, Gregory R.

Applicability of a Novel Method for Motion Stabilization Processing for Enhanced Visualization of the Left Ventricle With Contrast Opacification in Echocardiography
Houle, Helene*; Lee, Chi-Yin; Guracar, Ismayil; Vannan, Mani

Saturday, March 15

Sonography of the Knee In Infants and Children, Part 2: Infectious and Inflammatory Processes, Benign Masses, Malignant Tumors, and Trauma
Koplewitz, Benjamin Z.*; Jarrin, Jose R.; Babyn, Paul S.

Sonography of the Shoulder in Infants and Children, Part 1: Technique, Normal Appearance, and Developmental Anomalies
Koplewitz, Benjamin Z.*; Mohanta, Arun; Jarrin, Jose R.; Babyn, Paul S.
403578 Prospective Evaluation of Venous 2-Dimensional Gray Scale Sonographic Measurements to Estimate Central Venous Pressure Tayal, Vivek S.*; Snead, Greg R.; Jones, Alan; Haley, Michael; Norton, H. James; Rose, Geoff

403583 Accuracy of the Landmark and Palpation Techniques for Pediatric Femoral Vein Identification Tayal, Vivek S.; Woodson, James; Pariyadath, Manoj; Leathers, Stephen; Norton, H. James

407539 A Prospective Comparison of Emergency Physician-Performed Limited Venous Ultrasound and Computed Tomographic Venography of the Lower Extremity for Deep Venous Thrombosis Shiver, Stephen A.*; Lyon, Matthew; Blaivas, Michael

407717 Ultrasound-Guided Drainage Catheter Placement for Treatment of Pelvic Abscesses Azar, Nami*; Rafie, Shervin; Zenooz, Navid A.; Nakamoto, Dean

408123 Sonographic Quantification of Vascularity Versus Morphology in the Assessment of Thyroid Nodules Lyshchik, Andrej*; Taffel, Myles T.; Andreotti, Rochelle F.; Fleischer, Arthur C.

408397 Spectrum of Doppler Waveform Changes in Hepatic Vessels Secondary to Intrahepatic and Extrahepatic Diseases Irshad, Abid*; Ackerman, Susan J.; Harper, Angelica; Kogos, Philip

408738 Ultrasoundographic Diagnosis of Duodenal Stenosis: Correlation Between Ultrasonography and Pathologic Forms Sugai, Michihiro*; Ishido, Keinosuke; Munakata, Hirohumi; Ishido, Keinosuke; Munakata, Hirohumi

409847 Benign Papillary Lesions of the Breast: Ultrasonographic and Ductoscopic Findings Navarro, Beatriz; Browne, Jean L.*; Feu, Jaume; Arata, Carmen; Tresserra, Francisco; Martinez, Maria A.; Rodriguez, Ignacio

410230 Transjugular Intrahepatic Portosystemic Shunts: Pictorial Review of Doppler Parameters and Preliminary Experience Using Echo-Enhanced Contrast Agents Marcelino, Antonio S.*; Cosme de Oliveira, Andre; Saito, Osmar C.; Carnevalle, Francisco C.; Pereira, Oswaldo I.; Chammas, Maria A.; Cerri, Giovanni G.

410369 Vascular Features Evaluated by 3-Dimensional Power Doppler Ultrasound in Endometrial Pathology Graupera, Betlem; Hereter, Lourdes*; Pascual, Maria A.; Tresserra, Francisco; Martinez, Maria A.; Rodriguez, Ignacio

410768 Emergency Physician Use of Ultrasound for Real-time Ultrasound Guidance for Paracentesis Sierzenski, Paul*; Durie, Craig; Fletcher, Steffen; O’Conner, Robert
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Evaluation collection boxes are located in the AIUM registration area.
2008 Exhibitors

414  Aloka Ultrasound
104  American Registry for Diagnostic Medical Sonography (ARDMS)
321  AS Software, Inc
415  ATS Laboratories, Inc
200  Biosound Esaote, Inc
207  CIRS, Inc
422  CIVCO Medical Solutions
111  ContextVision AB
307  Cook Women's Health
100  Creative Display Systems
404  DatCard Systems, Inc
108  Digisonics, Inc
401  Echoserve
109  Fetal Care Center of Cincinnati
301  Fetal Medicine Foundation USA
120  Gammex rmi
112  GE Healthcare
102  GeneCare Medical Genetics Center
417  Global Medical Imaging
107  Hitachi Medical Systems America, Inc
115  International Society of Ultrasound in Obstetrics and Gynecology (ISUOG)
425  Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL)
126  Kyoto Kagaku, Co, Ltd
304  Lenetix Medical Screening Laboratory, Inc
306  Lippincott Williams and Wilkins
101  Medical Positioning, Inc
308  Medipattern Corporation
122  Medisales, LLC
221  Medison America, Inc
400  Mindray Co, Ltd
408  Nihon Dempa Kogyo Co, Ltd
124  NTD Laboratories, a PerkinElmer Company
209  Parker Laboratories, Inc
121  Philips Medical Systems
123  Saunders/Mosby (Elsevier)
113  Siemens Medical Solutions, USA, Inc
427  Society for Maternal-Fetal Medicine (SMFM)
213  SonoSite, Inc
406  Sonultra Corporation
424  Sorna Corporation
302  Sound Ergonomics, LLC
423  Sound Technology, Inc
127  St John's Clinic, Inc
125  Summit Funding Group/Healthcare Finance
426  taberna pro medicum GmbH
421  Texas Children's Hospital
223  Toshiba America Medical Systems, Inc
201  Ultrasonix Medical Corporation
313  Zonare Medical Systems, Inc

2008 Exhibitors
Product Listing

Computers
- Software
  - AS Software, Inc
  - ContextVision AB
  - Digisonics, Inc
  - Fetal Medicine Foundation USA
  - GE Healthcare
  - Sorna Corporation

Consultants/Service
- Equipment Testing/Quality Control
  - Fetal Medicine Foundation USA
  - Gammex rmi
- Financing/Leasing
  - Summit Funding Group/Healthcare Finance
- Mobile Medical Service/Equipment
  - Gammex rmi

Display Monitors
- GE Healthcare
- Sound Ergonomics, LLC

Education
- Accreditation
  - AIUM
  - Fetal Medicine Foundation USA
  - ICAVL/ICAEL
- Certifications
  - ARDMS
  - Fetal Medicine Foundation USA
  - GeneCare Medical Genetics Center
  - ICAVL/ICAEL
- Education Software
  - Fetal Medicine Foundation USA
- Institution/Society
  - AIUM
  - Fetal Medicine Foundation USA
  - ICAVL/ICAEL
  - Society for Maternal-Fetal Medicine
- Publications
  - AIUM
  - ICAVL/ICAEL
  - Sound Ergonomics, LLC
- Simulators
  - Fetal Medicine Foundation USA
  - Kyoto Kagaku Co, Ltd
- Training
  - AIUM
  - Fetal Medicine Foundation USA
  - GE Healthcare
  - GeneCare Medical Genetics Center
  - ICAVL/ICAEL
  - Sound Ergonomics, LLC

Videotapes
- AIUM
- Sound Ergonomics, LLC

Mouthpieces/Bite Blocks
- CIVCO Medical Solutions

Original Equipment Manufacturer (OEM) Products/Supplies
- OEM Computer Peripherals
  - ContextVision AB
- OEM Probes
  - Nihon Densa Kogyo Co, Ltd
  - Sound Technology, Inc

Picture Archiving and Communications Systems (PACS)
- Mini PACS
  - AS Software, Inc
  - Philips Medical Systems
- Workstations
  - Philips Medical Systems
  - Toshiba America Medical Systems, Inc

Quality Assurance Test Equipment
- Phantoms
  - ATS Laboratories, Inc
  - CIRS, Inc
  - Gammex rmi
  - Kyoto Kagaku Co, Ltd

Research and Development
- Fetal Medicine Foundation USA
- Sound Technology, Inc
- Ultrasonix Medical Corporation

Supplies
- Amniocentesis Trays
  - Cook Women’s Health
  - GeneCare Medical Genetics Center
- Biopsy Equipment
  - CIVCO Medical Solutions
- Catheters
  - Cook Women’s Health
  - Disinfectants/Cleaners
  - CIVCO Medical Solutions
- Film/Recording Paper
  - Global Medical Imaging
  - Parker Laboratories, Inc
- Gel/Gel Warmers
  - Global Medical Imaging
  - Ultrasonix Medical Corporation
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CIVCO Medical Solutions
Global Medical Imaging
Probes/Supplies
Aloka Ultrasound
CIVCO Medical Solutions
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CIVCO Medical Solutions
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Fax: 301-738-0312
E-mail: weiss@ardms.org
Website: http://www.ardms.org
The American Registry for Diagnostic Medical Sonography (ARDMS), incorporated in June 1975, is an independent nonprofit organization that administers examinations and awards credentials in the areas of diagnostic medical sonography, diagnostic cardiac sonography, and vascular technology.

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Website: http://www.cookwomenshealth.com
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**Fetal Care Center of Cincinnati**
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Cincinnati Children's Hospital Medical Center
3333 Burnet Ave, MLC 2023
Cincinnati, OH 45229-3039 USA
Phone: 513-636-9608
Fax: 513-636-5959
Website: http://www.fetalcarecenter.org
The Fetal Care Center of Cincinnati brings together renowned fetal and maternal medicine specialists, leading technologies, and a full range of integrated support services from Cincinnati Children's Hospital Medical Center, University Hospital, and Good Samaritan Hospital to care for high-risk pregnancies. This innovative collaboration makes the Fetal Care Center one of the only comprehensive fetal care programs in the world affiliated with a top children's hospital, 2 level III maternity hospitals, and 3 Level III newborn intensive care units. The Fetal Care Center is committed to improving outcomes for high-risk pregnancies and enhancing the quality of life for every baby treated.

**Fetal Medicine Foundation USA**
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Phone: 818-395-0611, 937-416-4248
E-mail: naomihg@fetalmedicine.com, downingc@fetalmedicine.com
Website: http://www.fetalmedicine.com/usa
The Fetal Medicine Foundation (FMF) USA is a nonprofit charitable organization whose main goal is elevating the quality of obstetric ultrasound in the United States through education, quality assurance, and research. The FMF USA provides training and accreditation to physicians and sonographers in nuchal translucency, nasal bone, tricuspid flow, and other new and exciting techniques. The FMF USA is recognized as the world leader in providing training and accreditation in first-trimester screening.

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Gammex manufactures products for medical imaging, quality control testing, and radiation therapy alignment. The company offers a wide range of red and green wavelength laser alignments using their robotic CT Sim system. Quality control test tools include testing instruments, tools, and phantoms used in mammography and ultrasound applications. Gammex has long been considered the leading company in the manufacture of quality control phantoms. The 156 and 464 CT Accreditation phantoms are used by the American College of Radiology and other international quality control accreditation agencies for their quality control programs.

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Website: http://www.genecare.com
GeneCare is an international clinical and research center providing comprehensive genetic services, including chromosomes, DNA, fluorescence in situ hybridization, biochemical analyses, first-trimester screening with nuchal translucency (NT)/nasal bone/tricuspid flow, modified sequential analyses, second-trimester multimarker screening, genetic counseling, and consults from American Board of Medical Genetics–certified geneticists. GeneCare facilitates NT, nasal bone, and tricuspid flow training courses as well as educational support.

Global Medical Imaging
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E-mail: info@gmi3.com
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Global Medical Imaging specializes in new and reconditioned ultrasound systems and also carries an extensive inventory of parts and probes from all major manufacturers. All equipment is certified and quality tested 100% up to original equipment manufacturer specifications and backed by a minimum 30-day warranty.

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Fax: 330-405-8173
E-mail: ernstm@hitachimed.com
Website: http://www.hitachimed.com
Hitachi continues to develop breakthrough technology and has recently introduced an expanded bandwidth transducer family, HDT8, and second-generation real-time tissue elastography for e-mode imaging. All are designed to deliver more diagnostic information with less effort. A programmable user interface, customized preset protocols, and a heads-up display format streamline workflow efficiency. In addition, Hitachi’s comprehensive on-site applications training makes transitioning to new technology effortless.

International Society of Ultrasound in Obstetrics and Gynecology (ISUOG)
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Blythe Road
London W14 0HW, United Kingdom
Phone: 44-20-7471-9955
Fax: 44-20-7471-9959
E-mail: info@isuog.org
Website: http://www.isuog.org
The International Society of Ultrasound in Obstetrics and Gynecology (ISUOG) exists to promote research and education in ultrasound in obstetrics and gynecology. The society hosts an Annual World Congress (Chicago, IL, in 2008), boasting an exceptional scientific program, and offers reduced delegate fees for all its members. ISUOG’s official monthly journal, Ultrasound in Obstetrics and Gynecology, is the most cited journal in its field, and an annual subscription is also included in membership of the society.
Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL)

Booth 425

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Columbia, MD 21045 USA
Phone: 800-838-2110
Fax: 410-872-0030
E-mail: accreditation@intersocietal.org
Website: http://www.icavl.org

The ICAVL provides a voluntary peer review accreditation process for facilities performing noninvasive vascular testing. The standards and corresponding accreditation material will be on display, or visit www.intersocietal.org for more information. Also, stop by to learn more about the webcast series Accreditation on Demand.

Kyoto Kagaku Co, Ltd

Booth 126

3109 Lomita Blvd
Torrance, CA 90505 USA
Phone: 310-325-8860
Fax: 310-325-8867
E-mail: t.takayama@kyotokagaku.co.jp
Website: http://www.kyotokagaku.com

Kyoto Kagaku Co, Ltd, will showcase its ultrasound-guided phantom lineup for simulation training and educational applications. The abdominal phantom with internal organs and a companion anatomic model, the central venous catheter insertion simulation trainer, the general-purpose quality assurance block, and the new interoperable laparoscopic abdominal phantom will all be featured at this debut AIUM exhibition.

Medical Positioning, Inc

Booth 101

1717 Washington
Kansas City, MO 64108 USA
Phone: 800-593-3246, 816-474-1555
Fax: 816-474-7755
Website: http://www.medicalpositioning.com

Medical Positioning, Inc (MPI) is a business that was created to improve diagnostic imaging, principally in the areas of cardiology and radiology. The company manufactures and markets specialty positioning systems. MPI will display the UltraScan table, which has multipurpose design features: drop sections for resting and stress echo, leg supports and a cutout for pelvic ultrasound, carotid head support, and an arm board for vascular exams.

Medisales, LLC

Booth 122

10541 Humbolt St
Los Alamitos, CA 90720 USA
Phone: 866-318-6334, 562-430-8779
Fax: 562-430-8769
E-mail: info@medisalesllc.com
Website: http://www.medisalesllc.com

Medisales is a worldwide remarketer of quality new and preowned ultrasound equipment. Medisales offers complete diagnostic ultrasound solutions for general radiology, obstetrics, gynecology, cardiology (including transesophageal), vascular, peripheral vascular, breast, neurology, urology, surgical, and veterinary applications. Medisales' extensive in-house inventory provides customers with quality multivendor choices at competitive prices. By housing its own inventory, employing its own experienced service engineers, and
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**Medison America, Inc**

Booth 221

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Cypress, CA 90630 USA
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E-mail: info@medisonusa.com
Website: http://medisonusa.com

Medison’s specialized ultrasound equipment is on the cutting edge of technology. The development of automatic volume data acquisition, multibeam technology, and live 3D/4D ultrasound are just a few of the company’s technological breakthroughs. Using Medison’s automatic data acquisition and live 3D/4D technology, which provides image display in real time, physicians worldwide are performing a greater number of clinical applications with greater diagnostic confidence than ever before. Breaking new ground in 3D/4D ultrasound technology and providing valuable tools for diagnostics and image-guided procedures, Medison is making the difference that matters.

**Mindray Company, Ltd**

Booth 400

206-4250 Kingsway
Burnaby, BC V5H 4T7, Canada
Phone: 604-451-1199, 604-451-1189
E-mail: mindray@shaw.ca
Website: http://www.mindray.com

As a leading developer, manufacturer, and marketer of medical devices in China, Mindray offers a broad range of products: patient monitoring devices, diagnostic laboratory instruments, and ultrasound imaging systems, which are sold primarily to distributors and the balance directly to hospitals, clinics, government agencies, original design manufacturers, and original equipment manufacturers.

**Nihon Dempa Kogyo Co, Ltd**

Booth 408

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Shibuya-ku, Tokyo 151-8569, Japan
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**NTD Laboratories, a PerkinElmer company**

Booth 124

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Shelton, CT 06484 USA
Phone: 800-762-4000
Fax: 330-825-8520
E-mail: ntdlabs@perkinelmer.com
Website: http://www.ntdlabs.com

NTD Laboratories, a PerkinElmer company, is a specialty laboratory that focuses on prenatal screening for birth defects. It provides services to universities, medical centers,
hospitals, other laboratories, and obstetricians throughout the United States and internationally. NTD also supports an extensive research division, the findings of which are published in many peer-reviewed medical journals.

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Fax: 973-276-9510
E-mail: parker@parkerlabs.com
Website: http://www.parkerlabs.com
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Booth 427
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Washington, DC 20024 USA
Phone: 202-863-2435
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Website: http://www.smfm.org
The Society for Maternal-Fetal Medicine (SMFM) is a not-for-profit organization of more than 2000 members that are dedicated to improving perinatal care. The society's primary objectives are to promote and expand education in maternal-fetal medicine and to encourage the exchange of new ideas and research concerning the most recent approaches and treatments for obstetric problems.

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Booth 423
1363 South Atherton St
State College, PA 16801 USA
Phone: 814-234-4377, 814-235-3740
Fax: 814-234-5033
E-mail: rick.edmiston@sti-ultrasound.com
Website: http://www.sti-ultrasound.com
Sound Technology, Inc, a subsidiary of Analogic Corporation, offers a complete line of diagnostic medical ultrasound probes and transducers for original equipment ultrasound system manufacturers. Its product portfolio, supporting a broad range of clinical applications, includes micro convex, convex, linear, and phased arrays as well as single-element transducers. New products from STI include a mechanical 3D/4D endocavitary probe and a selection of single-crystal probe designs.
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Founded in 1978, taberna pro medicum is proud to be the global leader in digital high-frequency ultrasound for skin imaging, offering everything in one place: development, production, maintenance, repair, sales, and service. In 1986, taberna pro medicum introduced the first commercially available A/B ultrasound system worldwide, the DUB20 20-MHz digital ultrasound imaging system. Options include 3D, X-scanning, skin elasticity, and early detection of osteoporosis risk. Developments for higher quality, better reproducibility, faster imaging, and especially the use of higher frequencies have never stopped. Today, taberna pro medicum handles ultrasound frequencies up to 100 MHz. In 1988, the company received the 510(k) approval from the US Food and Drug Administration.
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Texas Children’s Fetal Center, located within Texas Children’s Hospital in Houston, Texas, 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. Texas Children’s Fetal Center’s physicians are recognized leaders in fetal medicine and fetal and neonatal surgery. They offer 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. The team at Texas Children’s Fetal Center is committed to the best possible outcome for each family.

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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.

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Ultrasonix Medical Corporation specializes in diagnostic ultrasound and is dedicated to providing its customers with superior ultrasound solutions and support for better patient care. Working in partnership with a growing global network, Ultrasonix is constantly expanding its leading-edge technology available around the world.

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We’re so close to reaching a new milestone in the EER—$1,000,000 in cumulative support—join us as we “Push for a Million”!

AIUM Student Day and Medical Student Course

Saturday, March 15, 2008

AIUM Welcomes Medical Students, Residents, Fellows, and Sonography Students

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

For Medical Students Only

An introductory ultrasound course, “Diagnostic Ultrasound: The Basics,” designed specifically for invited medical students from local medical schools, will be held as part of Student Day.

The course will provide an introduction to the most basic aspects of ultrasound use and physics. The course is chaired by Dolores Pretorius, M.D., and Nannette Forsythe, RDMS. The AIUM believes that the exposure to ultrasound should begin in medical schools as part of their curriculum or as an elective course.

Medical students from the University of California San Diego (UCSD) and the University of California Irvine (UCI) have been invited to attend this course. The students will attend the course in the morning, followed by the opportunity to sit in on scientific and categorical courses, view poster exhibits, and walk through the Exhibit Hall.

Course participation is limited to invited preregistered medical students.
Individuals involved in the planning of the 2008 AIUM Annual Convention may include AIUM officers, board members, committee members, and AIUM staff. Planning members who disclosed that they have relevant relationship(s) with commercial interest(s) that may create a conflict of interest will be identified in your registration materials. These individuals have recused themselves from participating in planning any portion of the 2008 AIUM Annual Convention where a bias may have existed. Disclosure forms are completed annually, and planning members are instructed to advise the AIUM if new financial relationships with commercial interests have arisen since last completing their disclosure forms.
Other CME Opportunities Available Through the AIUM

2008 Postgraduate Courses

Ultrasound Registry Review
June 7–8, 2008
Montgomery College
Takoma Park, Maryland

Hands-on Musculoskeletal Ultrasound: Diagnostic and Interventional Techniques
July 10–12, 2008
Mayo Clinic
Rochester, Minnesota

Update on Thyroid and Parathyroid Ultrasound: Imaging and Intervention
August 16–17, 2008
Gaylord National Hotel on the Potomac
National Harbor, Maryland

Pediatric Ultrasound
November 8–9, 2008
Gaylord National Hotel on the Potomac
National Harbor, Maryland

Ultrasound in Reproductive Medicine and Infertility
December 6–7, 2008
Gaylord National Hotel on the Potomac
National Harbor, Maryland

CME Video Programs

CME video programs are available on a variety of ultrasound topics. To view or purchase any of these programs, visit the AIUM Resource Center in the Lobby Lounge West • North Tower/Lobby Level, or visit the online store at www.aium.org.

Journal of Ultrasound in Medicine (JUM) CME Tests

AIUM Members benefit from free online test submission of CME self-study tests from current and archived issues of the JUM — access up to 84 CME tests worth up to 1 CME credit each! Visit www.aium.org.
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