In Appreciation

The AIUM would like to thank the following organizations for providing educational grants in support of the 2010 AIUM Annual Convention. Please join us and show your appreciation while visiting these companies in the Exhibit Hall.

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**Symbol Key**

- Endowment for Education and Research grant recipient
- Hands-on courses
- Videotaped courses
Schedule at a Glance

Wednesday, March 24, 2010  • Registration Open 6:00 AM–4:15 PM

7:30 AM–5:00 PM Preconvention Program (separate registration)
7:00 PM–9:00 PM Presidential Reception for New Members and Leadership (by invitation only)

Thursday, March 25, 2010  • Registration Open 6:00 AM–4:15 PM

8:00 AM–9:00 AM Meet-the-Professor Sessions
8:00 AM–9:00 AM Community of Practice Meeting
9:15 AM–11:30 AM Opening/Awards Session
11:30 AM–1:00 PM Grand Opening Luncheon in the Exhibit Hall
1:00 PM–2:00 PM Film Panel Sessions
1:00 PM–2:00 PM Basic Science Session
2:15 PM–3:45 PM Accreditation “Getting Started” Workshop
2:15 PM–3:45 PM Categorical Courses
4:00 PM–5:30 PM Scientific Sessions and Just Images Sessions

Friday, March 26, 2010  • Registration Open 6:00 AM–4:30 PM

7:00 AM–8:00 AM Meet-the-Professor Sessions
8:15 AM–9:45 AM Categorical Courses
9:30 AM–12:30 PM Exhibit Hall Open
9:45 AM–10:45 AM Community of Practice Meetings
9:45 AM–10:45 AM Refreshment Break in the Exhibit Hall
11:00 AM–12:30 PM Scientific Sessions and New Investigator Session
11:00 AM–12:30 PM Categorical Course
12:30 PM–1:30 PM Community of Practice Meeting
12:30 PM–1:30 PM Lunch in the Exhibit Hall
12:30 PM–1:30 PM Scientific Poster Discussion
1:00 PM–1:30 PM Community of Practice Meeting
1:30 PM–3:30 PM Categorical Courses
3:30 PM–4:30 PM Community of Practice Meetings
3:30 PM–4:30 PM Refreshment Break in the Exhibit Hall
4:30 PM–5:30 PM Scientific Sessions and Just Images Sessions
7:00 PM–1:00 PM Leadership Banquet (by invitation only)

Saturday, March 27, 2010  • Registration Open 6:00 AM–5:00 PM

7:00 AM–8:00 AM Meet-the-Professor Sessions
8:00 AM–12:30 PM Resident/Medical Student Course
8:15 AM–10:15 AM Categorical Courses
9:30 AM–2:00 PM Exhibit Hall Open
10:15 AM–11:15 AM Community of Practice Meetings
10:15 AM–11:15 AM Refreshment Break in the Exhibit Hall
11:15 AM–12:15 PM Scientific Sessions and Just Images Sessions
12:30 PM–1:30 PM Lunch in the Exhibit Hall
12:30 PM–1:30 PM Scientific Poster Discussion
1:45 PM–3:15 PM Categorical Courses
3:30 PM–5:00 PM Scientific Sessions and Just Images Sessions
5:15 PM
5:30 PM–8:00 PM Board of Governors Meeting

Sunday, March 28, 2010

8:00 AM–11:00 AM Board of Governors Meeting
General Information

Committee Office Hours
New York • Marriott Pavilion/Lobby Level
Wednesday, March 24 7:30 AM–4:15 PM
Thursday, March 25 7:30 AM–4:30 PM
Friday, March 26 7:30 AM–4:30 PM
Saturday, March 27 7:30 AM–5:00 PM

Registration Hours
West Lobby Lounge • North Tower/Lobby Level
Wednesday, March 24 6:00 AM–4:15 PM
Thursday, March 25 6:00 AM–4:15 PM
Friday, March 26 6:00 AM–4:30 PM
Saturday, March 27 6:00 AM–5:00 PM

Exhibit Registration Hours
West Lobby Lounge • North Tower/Lobby Level
Wednesday, March 24 7:30 AM–5:00 PM
Thursday, March 25 7:00 AM–4:45 PM
Friday, March 26 9:00 AM–4:45 PM
Saturday, March 27 9:00 AM–4:45 PM

Exhibit Hall Hours
Marriott Hall • Marriott Pavilion/Lobby Level
Thursday, March 25 11:30 AM–4:30 PM
Grand Opening Luncheon in the Exhibit Hall 11:30 AM–1:00 PM
Friday, March 26 9:30 AM–4:45 PM
Refreshment Break in the Exhibit Hall 9:45 AM–10:45 AM
Lunch in the Exhibit Hall 12:30 PM–1:30 PM
Refreshment Break in the Exhibit Hall 3:30 PM–4:30 PM
Saturday, March 27 9:30 AM–2:00 PM
Refreshment Break in the Exhibit Hall 10:15 AM–11:15 AM
Lunch in the Exhibit Hall 12:30 PM–1:30 PM

Speaker Ready Room
Chicago • Marriott Pavilion/Lobby Level
Tuesday, March 23 1:00 PM–5:00 PM
Wednesday, March 24 6:00 AM–5:00 PM
Thursday, March 25 6:00 AM–5:30 PM
Friday, March 26 6:00 AM–5:30 PM
Saturday, March 27 6:00 AM–5:00 PM

Visit the Cyber Café for FREE Wireless Internet in the Exhibit Hall
Supported by Sound Ergonomics, LLC
Convention Registration Information
Convention registration fees cover attendance to all sessions held Thursday, March 25, through Saturday, March 27, 2010 (except Meet-the-Professor sessions).

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

Meet-the-Professor Sessions
Registration for Meet-the-Professor sessions (MTPs) is on a first-come, first-served basis, according to the date of receipt of the registration form. There is an additional fee for these sessions. Tickets for entrance to the MTPs are required and were issued with your registration materials. There will be bagels and coffee provided for each session.

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 children. Children are not permitted in the Exhibit Hall during the exhibit setup and dismantlement period.

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

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

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

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

What to Wear
Attire at this year’s AIUM Annual Convention and Preconvention Program 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.

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.

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

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.

Food and Drink
In the Exhibit Hall

Thursday, March 25
11:30 am–1:00 pm
Grand Opening Luncheon

Friday, March 26
9:45 am–10:45 am
Coffee and Bagels
12:30 pm–1:30 pm
Sandwiches
3:30 pm–4:30 pm
Snacks

Saturday, March 27
10:15 am–11:15 am
Coffee and Bagels
12:30 pm–1:30 pm
Sandwiches
Committee Meeting Schedule

Tuesday, March 23

11:00 AM–4:00 PM  Output Standards Subcommittee Meeting
                    Torrey 1/2 • North Tower/Lobby Level

5:00 PM–9:00 PM  International Electrotechnical Commission (IEC) Subcommittee Meeting
                   Torrey 1/2 • North Tower/Lobby Level

Wednesday, March 24

8:00 AM–12:00 PM  Technical Standards Committee Meeting
                   Torrey 1/2 • North Tower/Lobby Level

11:30 AM–1:00 PM  Annual Convention Committee Meeting
                   Manchester • North Tower/Lobby Level

1:00 PM–7:00 PM  Bioeffects Committee Meeting
                   Torrey 1/2 • North Tower/Lobby Level

1:30 PM–3:00 PM  Finance and Executive Committee Meeting
                   Boardroom • South Tower/Level 3

7:00 PM–9:00 PM  Presidential Reception for New Members and Leadership
                   Bayside Pavilion

Thursday, March 25

2:15 PM–3:45 PM  Membership Committee Meeting
                   Newport Beach • South Tower/Level 4

Friday, March 26

7:00 AM–8:00 AM  Postgraduate Course Committee Meeting
                   Rancho Las Palmas • South Tower/Level 4

8:00 AM–10:00 AM  Clinical Standards Committee Meeting
                   Newport Beach • South Tower/Level 4

12:30 PM–1:30 PM  Presidential Advisory Council Meeting
                   Suite 2573 • South Tower

12:30 PM–1:30 PM  Continuing Medical Education Committee Meeting
                   Newport Beach • South Tower/Level 4

1:30 PM–2:30 PM  Endowment for Education and Research Committee Meeting
                   Rancho Las Palmas • South Tower/Level 4

3:30 PM–5:30 PM  Ultrasound Practice Accreditation Council
                   Los Angeles • South Tower/Level 4
Saturday, March 27

7:00 AM–8:00 AM  Journal of Ultrasound in Medicine Editorial Board Meeting
Manchester • North Tower/Lobby Level

8:15 AM–9:15 AM  Exhibit Advisory Council Meeting
Mission Hills • South Tower/Level 3

12:30 PM–1:30 PM  Community of Practice Council Meeting
Mission Hills • South Tower/Level 3

2:30 PM–5:00 PM  Executive Committee Meeting
Boardroom • South Tower/Level 3

5:15 PM  Business Meeting
Torrey 1/2 • North Tower/Lobby Level

5:30 PM–8:00 PM  Board of Governors Meeting
Manchester • North Tower/Lobby Level

Sunday, March 28

7:00 AM–11:00 AM  Board of Governors Meeting
Columbia 1/2 • North Tower/Lobby Level

Visit the AIUM Resource Center
Located inside the Exhibit Hall—Booth 100

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

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

Thursday, March 25  11:30 AM–4:30 PM
Friday, March 26  9:30 AM–4:30 PM
Saturday, March 27  9:30 AM–2:00 PM

Stop by and enter to win 1 of our 5 fabulous giveaways from Apple!

Drawings will be held in the Exhibit Hall during lunches and refreshment breaks on Friday and Saturday.
Community of Practice Meeting Schedule

Thursday, March 25
8:00 AM–9:00 AM  Gynecologic Ultrasound  
Mission Hill • South Tower/Level 3

Friday, March 26
9:45 AM–10:45 AM  Contrast-Enhanced Ultrasound  
Columbia 3 • North Tower/Lobby Level
Emergency and Critical Care Ultrasound  
Torrey 1/2 • North Tower/Lobby Level
Interventional–Intraoperative Ultrasound  
San Diego A • North Tower/Lobby Level
Practice of Sonography  
Marina D • South Tower/Level 3

12:30 PM–1:30 PM  Obstetric Ultrasound  
San Diego B • North Tower/Lobby Level

1:00 PM–1:30 PM  High-Frequency Clinical and Preclinical Imaging  
Columbia 1/2 • North Tower/Lobby Level

3:30 PM–4:30 PM  Basic Science and Instrumentation  
Columbia 1/2 • North Tower/Lobby Level
Musculoskeletal Ultrasound  
San Diego C • North Tower/Lobby Level
Neurosonology  
Columbia 3 • North Tower/Lobby Level
General and Abdominal Ultrasound  
Marina D • South Tower/Level 3

Saturday, March 27
10:15 AM–11:15 AM  Therapeutic Ultrasound  
San Diego A • North Tower/Lobby Level
Cardiovascular Ultrasound  
San Diego C • North Tower/Lobby Level
Pediatric Ultrasound  
Columbia 3 • North Tower/Lobby Level
Fetal Echocardiography  
Marina E/F • South Tower/Level 3
Educational Opportunities

- **Preconvention Program**—This is your chance to attend courses that will provide in-depth coverage of ultrasound issues. Earn up to 7 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

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

- **Hands-on Courses**—Participate in courses covering emergency and interventional ultrasound, cardiovascular ultrasound, neurosonology, and ultrasound-guided biopsy.

- **Meet-the-Professor Sessions**—Participate in small-group sessions led by renowned ultrasound professionals. Space is limited. Register early as these sessions sell out quickly. The cost for each session is $35.00.

- **Scientific Sessions**—Learn about the latest research in ultrasound. Topics include but are not limited to:
  - Basic Science
  - Breast Ultrasound
  - Cardiovascular Ultrasound
  - Clinical Tissue Characterization
  - Contrast-Enhanced Ultrasound
  - Emergency Ultrasound
  - Fetal Echocardiography
  - General and Abdominal Ultrasound
  - Genitourinary Ultrasound
  - Gynecologic Ultrasound
  - High-Frequency Clinical and Preclinical Imaging
  - Interventional-Intraoperative Ultrasound
  - Obstetric Ultrasound
  - Pediatric Ultrasound
  - Practice of Sonography
  - Therapeutic Ultrasound

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

- **Film Panel Sessions**—Discuss unknown ultrasound cases in general and 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.

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

Designation Statement
The AIUM designates the 2010 Preconvention Program for a maximum of 8 AMA PRA Category 1 Credits™. The AIUM designates the 2010 Annual Convention for a maximum of 21 AMA PRA Category 1 Credits™. The AIUM designates the 2010 Meet-the-Professor sessions for a maximum of 3 AMA PRA Category 1 Credits™. The AIUM designates the 2010 Community of Practice meetings for a maximum of 5 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Credit for Sonographers
Sonographers participating in AIUM educational activities may earn credits toward maintaining their professional certification from the following organizations:
American Registry for Diagnostic Medical Sonography (ARDMS)
The ARDMS accepts AMA PRA Category 1 Credits™.
American Registry of Radiologic Technologists (ARRT)
The AIUM is a Recognized Continuing Education Evaluation Mechanism (RCEEM) for the American Registry of Radiologic Technologists (ARRT). These educational activities are approved by the AIUM for ARRT Category A Credits.

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).

Conflict of Interest Policy
The AIUM has instituted a process that goes beyond simple disclosure, with necessary interventions to resolve any conflicts of interest before the educational activity begins. 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. Individuals who refuse to disclose their financial relationships will be disqualified from their role in the educational activity. The AIUM reviews these disclosure forms for potential conflicts of interest. All potential conflicts of interest are identified and managed by the chair of the CME Committee or designated AIUM official before the educational activity takes place. Should it be determined that a conflict of interest exists as a result of a financial relationship, 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. If the conflict is unable to be resolved, the individual will not be permitted to participate in the educational activity. Individuals involved in planning will be asked to recuse themselves from any portion of the planning where a bias might exist.

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 educational material includes 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.

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.
The AIUM has instituted a process that goes beyond simple disclosure, with necessary interventions to resolve any conflict of interest before the educational activity begins. All individuals who are in a position to control the content of an educational activity, including AIUM officers, board members, committee members, and AIUM staff, are required to complete a disclosure form. Individuals who refuse to disclose their financial relationships will be disqualified from their role in the educational activity. The AIUM reviews these disclosure forms for potential conflicts of interest. All potential conflicts of interest are identified and managed by the chair of the Continuing Medical Education Committee and designated AIUM official prior to the educational activity taking place. Should it be determined that a conflict of interest exists as a result of a financial relationship, 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. If the conflict is unable to be resolved, the individual will not be permitted to participate in the educational activity. Individuals involved in planning will be asked to recuse themselves from any portion of the planning where bias may exist. Disclosures, if any, are listed under the speaker’s name. Otherwise, the speaker has indicated that he or she does not have any relevant financial relationships. All completed disclosure forms are on file and available for review at the AIUM office.

2010 disclosures from AIUM officers, board members, committee members, and AIUM staff:

Abramowicz, Jacques, MD
Philips Healthcare: researcher

Abraham, Alfred, MD

Ackerman, Susan, MD

Allen, Lisa, BS, RDMS, RDCS, RVT

Andreotti, Rochelle, MD

Angtuaco, Teresita, MD

Bahner, David, MD, RDMS

Bahatiy, Meni, MD

Barahona, Oscar J., BS, RDMS

Benson, Carol, MD

Bion, Teresa, MBA, RT, RDMS, RVT, RDCS

Blavas, Michael, MD, RDMS

Emergency Ultrasound Consultants: partial owner
SonoSite, Inc: consultant

Borok, Kathi, BS, RDMS, RDCS

Brown, Brenda, RDCS, RDMS

Clark, Jenny

Cohen, Harris, MD

Coley, Brian, MD

Siemens Medical Solutions: Advisory Board or Review Panel

Zonare: consultant

Crino, Jude, MD

De Jong, M. Robert, RDCS, RDMS, RVT

Delanko, Danielle

Diacon, Lin, MD, RDMS, RPVI

Dogra, Vikram, MD

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

Eberle, Diane

Emerson, Donald, MD

Estroll, Judy, MD

Field, Rick, MD

Fowlkes, J. Brian, PhD

GE Healthcare: researcher
Toshiba Medical: researcher

Goldstein, Steven, MD

Ackrad Labs (a Cooper Company): consultant
Amgen: Advisory Board or Review Panel
Boehringer Ingelheim: Advisory Board or Review Panel
Cook ObGyn: consultant
 Eli Lilly & Co: Advisory Board or Review Panel, teaching and/or speaking
Novartis: Advisory Board or Review Panel
Novo Nordisk: Advisory Board or Review Panel
Philips Healthcare: consultant
SonoSite, Inc: other
Wyeth: Advisory Board or Review Panel, teaching and/or speaking
Gray, Diane, MD
Gregory, Kimberly
Harvey, Glynn
Hashimoto, Beverly, MD
Advanced Imaging Technology: consultant
General Electric: consultant
Siemens Medical Solutions: Advisory Board or Review Panel
U Systems: researcher

Henningsen, Charlotte, MS, RT, RDMS, RVT
Hilderbrand, Jennifer
Holland, Mark, PhD
Hyde, Charles, MD
King, Jeffrey, MD
Kinney, Brenda
Langer, Jill, MD
BioClinica: consultant
The FCG Institute for Continuing Medical Education: board membership
Lee, Wesley, MD
Lewis, Michele
Lynch, Susan, RDMS, RDCS, RVT
Mari, Giancarlo, MD
Mastrobattista, Joan, MD
Matulik, Dex, MD, PhD
Monteagudo, Ana, MD
Moore, Christopher, MD, RDMS, RDCS
Philips Healthcare: consultant
SonoSite, Inc: consultant
Nazarian, Levon, MD
Nissenbaum, Harvey, MD
Patel, Bhavaggir, MD, MBA
Paubstier, David, MD
Powell, Kelli, RDMS
Puscheck, Elizabeth, MD
Rasmussen, Olga, RDMS
Reading, Carl, MD
Schafer, Mark, PhD
Sonic Tech, Inc: management position
Sound Surgical Technologies, LLC: employee
Sottt, Leslie, MD
Shapp, Thomas, MD
Skupska, Daniel, MD
Smith, Jay, MD
Gulf Coast Ultrasound Institute: teaching and/or speaking
Temex: consultant
Spitz, Jean, MPH, RDMS
Stern, Susan
Stone, Joanne, MD
Teeley, Sharlene, MD
Envisioneering: Advisory Board or Review Panel
Siemens Medical Solutions: researcher
Tessler, Franklin, MD, CM
Philips Healthcare: Advisory Board or Review Panel
Toi, Anish, MD
Toy, Eugene, MD
Trotter, Jill, BS, RT(R), RDMS, RVT
Valente, Carmine, PhD, CAE
Warsof, Steven, MD
Wax, Joseph, MD
Weber, Therese, MD
Weiner, Carl, MD
Wolitz, Paula, MPH, RDMS, RDCS
Yeo, Lami, MD

Faculty disclosures are printed in the Proceedings of the 2010 Annual Convention.
Disclosure of Commercial Support for the 2010 AIUM Annual Convention

Unrestricted Educational Grants
GE Healthcare
Parker Laboratories, Inc
Siemens Medical Solutions USA, Inc
Sound Ergonomics, LLC
Texas Children’s Fetal Center
Ultrasonix Medical Corporation

In-Kind Donations
ATS Laboratories, Inc
Biosound Esaote, Inc
Blue Phantom
CIVCO Medical Solutions
Gammex, Inc
GE Healthcare
Parker Laboratories, Inc
Philips Healthcare
Siemens Medical Solutions USA, Inc
SonoSite, Inc
Toshiba America Medical Systems, Inc
Ultrasonix Medical Corporation
Zonare Medical Systems, Inc

Advertising
ADVANCE Newsmagazines
Applied Radiology
Cook Medical
Diagnóstico Journal
Digisonics, Inc
GE Healthcare
Immunology Medical Education and Research Consultants, Inc
Medison America, Inc
Parker Laboratories, Inc
Philips Healthcare
Radiology Today
RT Image
Texas Children’s Fetal Center
You will notice convention attendees wearing the following ribbons to signify their specialized participation in the AIUM and at the Annual Convention.

- **AIUM BOARD OF GOVERNORS**
  Reserved for the current Board of Governors.

- **AIUM CEO**
  Reserved for the current chief executive officer, Carmine Valente, PhD, CAE.

- **AIUM COMMITTEE**
  Reserved for AIUM members that currently serve on a committee.

- **AIUM EER GRANT RECIPIENT**
  Reserved for individuals who have received an Endowment for Education and Research (EER) grant from the AIUM and are presenting their findings at the convention.

- **AIUM EXECUTIVE COMMITTEE**
  Reserved for AIUM members that currently serve on the Executive Committee.

- **AIUM FELLOW MEMBER**
  Reserved for AIUM fellow members, a distinguished honor bestowed on members who have significantly contributed to the AIUM and to the field of ultrasound.

- **AIUM NEW MEMBER**
  Reserved for AIUM new members who have joined in the past year.

- **AIUM PRESIDENT**
  Reserved for the current president of the AIUM, Harvey Nisenbaum, MD

- **AIUM PRESIDENT-ELECT**
  Reserved for the current president-elect of the AIUM, Alfred Abuhamad, MD

- **AIUM SENIOR MEMBER**
  Reserved for AIUM senior members who have demonstrated substantial accomplishments in the field of ultrasound.

- **ACCREDITATION CASE REVIEWER**
  Reserved for accreditation case reviewers who evaluate case studies submitted by practices seeking accreditation, an integral component of the accreditation process.

- **AIUM SPEAKER**
  Worn by individuals presenting at the 2010 Annual Convention.

- **CASE OF THE DAY**
  Awarded to individuals who correctly answer the Cases of the Day challenge located in the registration—open to all attendees.

- **MODERATOR**
  Worn by individuals who moderate a scientific session or categorical course.

- **SCHOLARSHIP RECIPIENT**
  Awarded to scholarship recipients.

- **STUDENT DAY ATTENDEE**
  Worn by students attending Student Day, Saturday, March 27, 2010.

- **EER**
  Given to individuals who donated to the AIUM’s EER in 2009.
AIUM Leadership

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Levon Nazarian, MD
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Gary Whitman, MD, *American Medical Association Alternate Delegate*
Carmine M. Valente, PhD, CAE, Chief Executive Officer

**Liaison Board Members**

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American College of Radiology
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Joel R. Okazaki, MD
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Carl E. Otto, MD
Catherine B. Overton, RT(R), RDMS
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Eric C. Pallotto, MD
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Emmanuelle Pare
Keith B. Paredes, MD
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Kenneth G. Perry, Jr, MD
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Pamela G. Phayre, RVT
Jock Philip
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Catherine W. Piccoli, MD
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Amy H. Picklesimer, MD, MSPH
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Eduardo Ramirez-Lizardi
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Norman E. Sato, MD
Satoshi Sato, MD
Takahiro Sato
Yutaka Sato, BA
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Anita Singla, MD, RDMS
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Roxanne M. Sivalop, AS, RDMS
Valentina Skyjarug, RDMS
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Jay Smith, MD
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Michael Smith, BS, RDMS, RDCS, RVT
Michele P. Smith, RDMS
Pamela E. Smith, MD, MPH, CHES
Stephen Smith, MD
John C. Smulian, MD, MPH
Steven Soberman, MD
Sachin Solanki
Kimberlee A. Sorem, MD
Yoram Sorokin, MD
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Myra S. Therber, RT, RDMS
David Thickman, MD
Ralf Thiele, MD
Kai E. Thomenius, PhD
Michael K. Thompson, MPH, RDMS, RVT, RDCS, RCS, RVS
Thomas R. Thompson, MD
Sven H. Thonell, MD
Stephen E. Thorn, MD
Mark Timken, MD
Arkem Tivorsak, MD
Sudhakar Tiwari
Ants Toi, MD, FRCP
Jennifer Tomczak, MD
Beverly Tong, MD
Eugene C. Toy, MD
Fatima M. H. Trabulsi, ABR
Sheila C. Trahan, MEd, RT, RDMS
Jeffrey Traynor, MD
Terry B. Tressler, DO
Kenneth F. Trofatter, Jr, MD, PhD
Jill Trotter, BS, RT(R), RDMS, RVT
Kathy A. Trumbull
Panagiotis Tsirkinidis, MD, CAPT, MC
Julie Turner, RDMS
Kevin C. Turner, MD
Susan J. Turner, MD
Carol A. Uher, RDMS, RT(R)
Reinhold A. Ulrich, MD
Richard A. Ulrich, BS, RDMS
Heidi R. Umphrey, MD, MS
Evan C. Unger, MD
James W. Van Hook, MD
Antoine M. Van Straalen, MD
Mary E. Vandenberge, RDMS, RT
Jean-Louis Vanoverschelde, MD, PhD
Tomy Varghese, PhD
Yvan Vial, MD
Michael Vichnin, MD
Shirley I. Villamar-Encinas, MD

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Complete Your Evaluation Form!

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

An e-mail will be sent inviting you to complete an evaluation.
Room Names and Locations in Alphabetical Order by Building

**Marriott Pavilion**
- Anaheim - Lobby Level
- Atlanta - Lobby Level
- Chicago - Lobby Level
- Marriott Hall 1–4 - Lobby Level
- Marriott Hall 5 - Lobby Level
- New York - Lobby Level
- Orlando - Lobby Level
- San Francisco - Lobby Level

**North Tower**
- Columbia 1/2 - Lobby Level
- Columbia 3 - Lobby Level
- Manchester - Lobby Level
- San Diego A - Lobby Level
- San Diego B - Lobby Level
- San Diego C - Lobby Level
- Torrey 1/2 - Lobby Level
- Torrey 3 - Lobby Level
- West Lobby Lounge - Lobby Level

**South Tower**
- Boardroom - Level 3
- Leucadia - Level 1
- Los Angeles - Level 4
- Marina Ballroom D - Level 3
- Marina Ballroom E/F - Level 3
- Marina Ballroom G - Level 3
- Mission Hills - Level 3
- Newport Beach - Level 4
- Oceanside - Level 1
- Pacific - Level 1
- Point Loma - Level 1
- Rancho Las Palmas - Level 4
- Sea View Room - Lobby Level
- Solana - Level 1
Marriott Floor Plans

North Tower - Lobby Level

Marriott Hall Drive
Service Alley
San Diego Ballroom
South Lobby Lounge
Exhibition Registration Desk
Columbia
Torrey
Manchester

Hair Salon & Spa Services
EAST LOBBY LOUNGE
Elevators
AQUA ANNUAL CONVENTION BALLROOM
Women
Men
Marriott Floor Plans

South Tower - Level 1
**Wednesday, March 24**

**Preconvention Program**
*Separate Registration*

**Schedule at a Glance**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>6:00 AM–4:15 PM</td>
<td>Registration Open</td>
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<tr>
<td>7:00 AM–7:30 AM</td>
<td>Preconvention Program Breakfast</td>
</tr>
<tr>
<td>7:30 AM–11:30 AM</td>
<td>Advanced Obstetric Doppler Ultrasound</td>
</tr>
<tr>
<td>7:30 AM–12:30 PM</td>
<td>Elastography: Where It Is, Where It Is Going, and How to Apply It to Your Practice</td>
</tr>
<tr>
<td>7:30 AM–5:00 PM</td>
<td>Evaluation of the Acutely Decompensating Patient</td>
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<tr>
<td>7:30 AM–5:00 PM</td>
<td>Musculoskeletal Ultrasound: Core Curriculum</td>
</tr>
<tr>
<td>7:30 AM–5:00 PM</td>
<td>Ultrasound Essentials</td>
</tr>
<tr>
<td>8:00 AM–12:00 PM</td>
<td>Technical Standards Committee Meeting</td>
</tr>
<tr>
<td>11:30 AM–1:00 PM</td>
<td>Annual Convention Committee Meeting</td>
</tr>
<tr>
<td>1:00 PM–5:00 PM</td>
<td>Differential Diagnosis of Congenital Anomalies You May Encounter in Your Practice</td>
</tr>
<tr>
<td>1:00 PM–7:00 PM</td>
<td>Bioeffects Committee Meeting</td>
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<tr>
<td>1:30 PM–3:00 PM</td>
<td>Finance and Executive Committee Meeting</td>
</tr>
<tr>
<td>7:00 PM–9:00 PM</td>
<td>Presidential Reception for New Members and Leadership</td>
</tr>
<tr>
<td></td>
<td><em>(by invitation only)</em></td>
</tr>
</tbody>
</table>
**7:00 AM–7:30 AM**
**Preconvention Program Breakfast**
Breakfast will be provided outside of each room.

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**Full-Day Courses**

**7:30 AM–5:00 PM**

**Evaluation of the Acutely Decompensating Patient**

*Course Chair: Michael Blaivas, MD*
*San Diego A • North Tower/Lobby Level*

This course will discuss evidence-based, protocol-driven point-of-care ultrasound applications, including focused echocardiography and lung, ocular, abdominal, and vascular ultrasound for evaluation of the acutely decompensating patient in any setting.

**7:30 AM–5:00 PM**

**Musculoskeletal Ultrasound: Core Curriculum**

*Course Chair: Ralf Thiele, MD*
*San Diego B • North Tower/Lobby Level*

This course will provide an overview and hands-on instruction of ultrasound of the joints of the upper and lower extremities according to AIUM practice guidelines. This course will be targeted to physicians, practitioners, and sonographers with beginner to intermediate levels of experience in musculoskeletal ultrasound. Ultrasound of the ankle and foot will not be covered in this course. This topic will be presented at separate categorical and hands-on courses.

**7:30 AM–5:00 PM**

**Ultrasound Essentials**

*Course Cochair: Jacques Abramowicz, MD, and Mark E. Lockhart, MD, MPH*

**Morning session:** Marina E/F • South Tower/Level 3  
**Afternoon session:** Obstetric, Marina E/F • South Tower/Level 3; General, Marina D • South Tower/Level 3

This course begins with basic principles, instrumentation, and knobology and then breaks into obstetric and general/abdominal ultrasound.
Half-Day Courses

7:30 AM–11:30 AM
Advanced Obstetric Doppler Ultrasound
Course Cochairs: Lynn Simpson, MD, and Ray Bahado-Singh, MD
Marina G • South Tower/Level 3
This course will cover how to obtain Doppler signals for the umbilical artery, middle cerebral artery, ductus venosus, uterine arteries, inferior vena cava, and fetal echocardiography. It will also discuss the importance of these waveforms.

7:30 AM–12:30 PM
Elastography: Where It Is, Where It Is Going, and How to Apply It to Your Practice
Course Chair: Deborah Rubens, MD
San Diego C • North Tower-Lobby Level
This course will discuss current and emerging applications for elastography and its role in evaluation of the thyroid, the breast, atheroma, and liver disease.

1:00 PM–5:00 PM
Differential Diagnosis of Congenital Anomalies You May Encounter in Your Practice
Course Chair: Lami Yeo, MD
Marina G • South Tower-Level 3
This course will include presentations of individual cases involving congenital anomalies that are unusual but not esoteric and that have significant teaching points.

7:00 PM–9:00 PM
Presidential Reception for New Members and Leadership
Bayside Pavilion
(by invitation only)
Thursday, March 25

Convention

Schedule at a Glance

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

T1  Sickle Cell Transcranial Doppler Screening: How to Do It, Why to Do It
Mary Beth McCarville, MD
Columbia 1/2 - North Tower/Lobby Level
The objective of this session is to educate radiologists and sonographers about the role of transcranial Doppler (TCD) screening in children with sickle cell anemia. Relevant clinical trials regarding the use of TCD screening in this patient population will be reviewed. Challenges in developing a TCD program will be addressed.

T2  Ultrasound of the Groin: Sports Injuries and Hernias
Marnix van Holsbeeck, MD
Columbia 3 - North Tower/Lobby Level
Following this session, participants will be able to discriminate causes of groin pain using ultrasound.

T3  Basic Fetal Cardiac Evaluation
Mark Sklansky, MD
Torrey 1/2 - North Tower/Lobby Level
The objective of this session is to review the steps involved in performance of a basic fetal cardiac evaluation: what information is required, how to obtain it, and how to assess normal fetal cardiac anatomy.

T4  Sonography of Male Genitalia
Paul Sidhu, BSc, MRCP, FRCR
Torrey 3 - North Tower/Lobby Level
In this session, participants will learn the value of ultrasound for examining the scrotum, identify common abnormalities and emergencies, and recognize unusual normal variants. Characterization of testicular masses, the significance of microlithiasis, and the role of Doppler ultrasound in diagnosis of testicular torsion will be discussed.

T5  Three- and 4-Dimensional Volume Reconstruction
Deborah D’Agostini, RDMS, and Michael Kammermeier, RT, RDMS, RVT, RDCS
Manchester - North Tower/Lobby Level
This session will include preloaded obstetric volumes and will demonstrate how to create 3-dimensional volumes and manipulate the slices.

Community of Practice Meeting

Gynecologic Ultrasound | Mission Hill – South Tower/Level 3
William J. Fry Memorial Lecture Award

“Cardiac Ultrasound: No More Just Anatomy, No More Just Ventricular Volumes—New Methods for Guidance and Cardiac Interventions and for Improved Understanding of Cardiac Chamber Mechanics”*

David Sahn, MD

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

*Complete abstract printed in the Proceedings of the 2010 Annual Convention.

Joseph H. Holmes Pioneer Awards

Ilan E. Timor-Tritsch, MD, Clinical
K. Kirk Shung, 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

Terry J. DuBose, MS, 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

Professor Charles Rodeck

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

Memorial Hall of Fame

Jon Meilstrup, MD
John Wild, PhD, MD

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

Endowment for Education and Research (EER) Grant Awards

Recipients to be announced.
Join us for this very interesting presentation about acoustics, echo location, water paths, bioeffects, and neonatal whales. Dr Cranford’s work focuses primarily on the functional morphology of biosonar, particularly sound generation and transmission but also sound reception in toothed whales. The potential for sound to impact living marine resources has become an important topic in the last decade, with at least 1 court case reaching the US Supreme Court. Evidence also suggests that human-generated sound can also have detrimental effects on fish hearing, reproductive habits, and stress levels. Investigating the physiology of sound reception in whales and fish is problematic. We have developed a “finite element model” of a whale’s head. This model allows us to simulate what happens when the anatomy of the whale interacts with sound, leading to discoveries and new ideas about hearing. Computer models are valuable because they provide a means to simulate bioacoustic physiology across a broad range of size scales and taxa, from whales to fishes. Virtual experiments can also determine potential for physical injury and provide potential for evaluating and directing mitigation efforts.

11:30 AM–1:00 PM
Grand Opening Luncheon in the Exhibit Hall
Marriott Hall • Marriott Pavilion/Lobby Level

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

Enter to Win Apple Giveaways at the the AIUM Resource Center!
Visit the AIUM Resource Center, located at Booth 100 in the Exhibit Hall to submit your entry (one entry per person qualifies you for all drawings). Drawings will be held in the Exhibit Hall during lunches and refreshment breaks on Friday and Saturday.

Visit the Cyber Café for FREE Wireless Internet in the Exhibit Hall
Supported by Sound Ergonomics, LLC
**1:00 PM–2:00 PM**

**Film Panel Sessions**

**General Imaging Film Panel**

*Moderator: Vikram Dogra, MD*

San Diego B - North Tower/Lobby Level

*Panelists: Paul Sidhu, BSc, MRCP, Wui Chong, MD, and Mark E. Lockhart, MD, MPH*

**Obstetric Imaging Film Panel**

*Moderator: Andrew Helfgott, MD*

Marina E/F - South Tower/Level 3

*Panelists: Anahit Martirosian Karapetyan, RDMS, Jude Crino, MD, Lawrence Platt, MD, Sherelle Laifer-Narin, MD, Celeste Sheppard, MD, and Harriett Isabel, RDMS*

**1:00 PM–2:00 PM**

**Basic Science Session**

**Transient Elastography, Time Reversal, and Multiwave Imaging in Ultrasound Medical Applications**

*Mathias Finks, MD*

San Diego C - North Tower/Lobby Level

This review describes the research conducted in our laboratory over the last 20 years both for imaging elastic properties of tissues with ultrasound and for improving the performance and precision of imaging and therapeutic ultrasound. This work led to the creation of 2 companies: Echosens and SuperSonic Imagine, Inc.
**2:15 PM–3:45 PM**

**Categorical Courses**

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

**Advanced 3- and 4-Dimensional Ultrasound in Obstetrics**

*Moderator: Dolores H. Pretorius, MD*

Marina E/F - South Tower/Level 3

This course will involve presentations of anomalies using 3-dimensional ultrasound of the fetal face, brain, and skeleton.

- **2:20 PM–2:45 PM**
  
  Three-Dimensional Ultrasound of the Skeleton  
  Liat Gindes, MD

- **2:45 PM–3:00 PM**
  
  Three-Dimensional Ultrasound of the Fetal Face  
  Dolores H. Pretorius, MD

- **3:00 PM–3:15 PM**
  
  Three-Dimensional Ultrasound of the Fetal Face: Manipulations  
  Gladys A. Ramos, MD

- **3:15 PM–3:40 PM**
  
  Three-Dimensional Ultrasound of the Brain  
  Eran Bornstein, MD

**Biopsying the Thyroid, Parathyroid, and Cervical Lymph Nodes: How to Do It**

*Moderators: Nira Razi, MD, and Mark E. Lockhart, MD, MPH*

San Diego B - North Tower/Lobby Level

This course will discuss the number of fine-needle aspirations that are optimal versus the size of the needle used as well as other controversies in the technique, with an emphasis on complications and pitfalls to avoid.

- **2:15 PM–3:00 PM**
  
  Ultrasound-Guided Biopsy of Parathyroid and Cervical Lymph Nodes  
  Nira Razi, MD

- **3:00 PM–3:45 PM**
  
  Ultrasound-Guided Thyroid Fine-Needle Biopsy  
  Mark E. Lockhart, MD, MPH
Controversies in Vascular Ultrasound

Moderator: M. Robert De Jong, RDCS, RDMS, RVT
Columbia 1/2 • North Tower/Lobby Level

This course will cover the issues of how to scan the calf veins, how to assess for renal artery stenosis, including direct and indirect methods, and intima-media thickness measurements.

2:15 PM–2:30 PM  Pro—The Use of Ultrasound to Detect Renal Artery Stenosis
Leslie Scoutt, MD

2:30 PM–2:45 PM  Con—Why Other Modalities Should Be Used to Detect Renal Artery Stenosis
Robert Mattrey, MD

2:45 PM–3:00 PM  Pro—Why Only Unilateral Venous Extremity Exams Are Adequate
John Blebea, MD

3:00 PM–3:15 PM  Con—Why Every Venous Exam Should Be Bilateral
Joann Lohr, MD

3:15 PM–3:30 PM  Pro—Why Every Lower Extremity Venous Study Should Include Calf Vein Imaging
William Zang, RDMS, RVT

3:30 PM–3:45 PM  Con—Is Calf Vein Imaging Really Necessary in Every Patient?
Fred A. Weaver, MD

Fetal Cardiac Doppler Ultrasound

Moderators: Mark Sklansky, MD, and Miwa Geiger, MD
Marina D • South Tower/Level 3

The objective of this course is to review the indications and methods for performing a fetal cardiac Doppler examination. Evaluation of fetal cardiac diastolic and systolic function plus peripheral Doppler applications and interpretation will also be reviewed.

2:15 PM–2:45 PM  Protocol-Based Fetal Cardiac Doppler Ultrasound: Technical Aspects
Greggory R. DeVore, MD

2:45 PM–3:15 PM  Protocol-Based Fetal Cardiac Doppler Ultrasound: Functional Cardiac Assessment
Greggory R. DeVore, MD

3:15 PM–3:45 PM  Fetal Cardiac Doppler Ultrasound: Clinical Practice
Lami Yeo, MD
**Hands-on Joint Vascular Access**

*Moderators: Vikram Dogra, MD, and Michael Blaivas, MD*

Marriott Hall S - Marriott Pavilion/Lobby Level

This course is designed to provide strategies, techniques, approaches, and practical experience in dynamic ultrasound guidance for central, peripheral, and arterial vascular access. This session is combined with the Emergency and Critical Care Ultrasound and Interventional-Intraoperative Ultrasound Communities of Practice.

2:15 PM–2:30 PM  
**Ultrasound-Guided Vascular Access**  
*Jason Nomura, MD, RDMS*

2:30 PM–3:45 PM  
**Hands-on Session**  
*Faculty: Gillian Baty, MD, MPH, RDMS, Shweta Bhatt, MD, Wui Chong, MD, Leslie Conner-Nickels, MD, RDMS, Eitan Dickman, MD, RDMS, Jason Gukhool, MD, RDMS, Lynwood Hammers, MD, Mark E. Lockhart, MD, MPH, Raj Paspulati, MD, Dean Nakamoto, MD, Christopher Raio, MD, RDMS, and Dennis Trigueros, MS, RDMS*

**Multimodality Pelvic Imaging**

*Moderator: Sherelle L. Laifer-Narin, MD*

Marina G - South Tower/Level 3

This course will present the clinical applications of pelvic sonography, computed tomography, magnetic resonance imaging, and positron emission tomography.

2:20 PM–2:40 PM  
**Ultrasound Assessment of Pelvic Pain in Pregnancy**  
*Ruth B. Goldstein, MD*

2:40 PM–3:00 PM  
**Magnetic Resonance Imaging and Computed Tomography in the Diagnostic Workup of Pelvic Pain**  
*Anne Kennedy, MD*

3:00 PM–3:20 PM  
**Ultrasonography and Assessment of Ovarian Cancer Risk**  
*Diane M. Twickler, MD*

3:20 PM–3:40 PM  
**Diagnostic Workup of Pelvic Pain During the Second Trimester: Evaluation Using Magnetic Resonance Imaging and Computed Tomography**  
*Sherrelle L. Laifer-Narin, MD*
Quantitative Ultrasound

**Moderators: Michael L. Oelze, PhD, and Gregory J. Czarnota, PhD, MD**

San Diego C • North Tower/Lobby Level

Quantitative ultrasound methods have been recently adapted to high-frequency ultrasound. This course will review the state of the art in quantitative ultrasound in terms of theory, methods, and novel applications to preclinical and clinical situations in which high-frequency ultrasound is used.

**2:15 PM–2:35 PM**  
High- and Very High-Frequency Ultrasound Tissue Characterization  
*Michael C. Kolios, PhD*

**2:35 PM–2:55 PM**  
Acoustic Backscatter for Quantitative Analysis of Ocular Tissues and Pathology  
*Ronald H. Silverman, PhD*

**2:55 PM–3:15 PM**  
Quantitative Ultrasound Analysis of Soft Tissues at High Frequencies  
*Michael L. Oelze, PhD*

**3:15 PM–3:45 PM**  
Three-Dimensional Quantitative High-Frequency Ultrasound Analysis of Lymph Nodes  
*Jonathan Mamou, PhD*

**Sonography of the Thyroid and Parathyroid**

**Moderator: Gordana Ivanac, MD, PhD**

San Diego A • North Tower/Lobby Level

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

**2:15 PM–2:45 PM**  
Working up Thyroid Nodules: A Logical Approach  
*Mary Frates, MD*

**2:45 PM–3:15 PM**  
Ultrasound of the Post-Thyroidectomy Neck  
*Mitchell Tublin, MD*

**3:15 PM–3:45 PM**  
Ultrasonography of the Parathyroid Glands  
*Shweta Bhatt, MD*
Ultrasound-Mediated Therapeutic Delivery
Moderators: Kai Thomenius, PhD, and Anne L. Hall, PhD
Torrey 1/2 - North Tower/Lobby Level
In this course, participants will have a chance to learn about new roles that ultrasound plays in acoustically mediated therapies such as those that introduce physical changes in tissue or enable the delivery of drugs and genes.

2:15 PM–2:35 PM  Preclinical Efficacy of Ultrasound-Enhanced Drug Delivery Strategies
Katherine W. Ferrara, PhD

2:35 PM–2:55 PM  From Bench to Bedside: Ultrasound-Directed Gene/Drug Therapies
Steven B. Feinstein, MD

2:55 PM–3:15 PM  Cavitation in Therapeutic Ultrasound: Letting Bubbles do the Heavy Lifting
J. Brian Fowlkes, PhD

3:15 PM–3:35 PM  Acoustic Droplet Vaporization: Drug Delivery, Trapping, and Therapy Beam Correction—An All-in-One Solution?
Oliver D. Kripfgans, PhD

3:35 PM–3:45 PM  Questions and Answers

Ultrasound of the Pediatric Head, Neck, and Chest
Moderator: Beth Kline-Fath, MD
Torrey 3 - North Tower/Lobby Level
This course will discuss ultrasound evaluations of congenital anomalies, infections, and tumors of the head, neck (including the thyroid), and chest.

2:15 PM–2:40 PM  Congenital Malformations of the Neck
Beth Kline-Fath, MD

2:40 PM–3:05 PM  Pediatric Thyroid Diseases
Eva Rubio, MD

3:05 PM–3:30 PM  Pediatric Sonography of the Chest
Leann Linam, MD

3:30 PM–3:45 PM  Questions and Answers

2:15 PM–3:45 PM  Accreditation “Getting Started” Workshop
Columbia 3 - North Tower/Lobby Level
By the end of this workshop, participants will understand the accreditation requirements and process and how to complete the application and select case studies.
**4:00 PM–5:30 PM**

**Scientific Sessions**

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

**Basic Science: Tissue Characterization (Nonclinical) 1**

**Moderators: Kevin J. Parker, PhD, and Azra Alizad, MD**

Marina G - South Tower/Level 3

<table>
<thead>
<tr>
<th>Session Time</th>
<th>Presentation Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00 PM–4:12 PM</td>
<td>Detection of Changes in Hepatic Interstitial Pressure Using Shear Stiffness Reconstruction</td>
<td>Rotemberg, Veronica*; Palmeri, Mark; Rouze, Ned; Nightingale, Kathryn</td>
</tr>
<tr>
<td>4:12 PM–4:24 PM</td>
<td>Novel Conventional Frequency Detection of Cell Death In Vitro and In Vivo</td>
<td>Papanicolau, Naum; Lee, Justin; Giles, Anoja; Karshafian, Raffi; Sadeghian, Alireza; Kolios, Michael C.; Czarnota, Gregory J.*</td>
</tr>
<tr>
<td>4:24 PM–4:36 PM</td>
<td>Investigating Mechanical Property Changes in Cell Death</td>
<td>El Kaffas, Ahmed*; Strohm, Eric M.; Bekah, Devesh; Czarnota, Gregory J.; Kolios, Michael C.</td>
</tr>
<tr>
<td>4:36 PM–4:48 PM</td>
<td>A Novel Thyroid Imaging Method for Improving Specificity</td>
<td>Alizad, Azra*; Morris, John C.; Reading, Carl C.; Kinnick, Randal R.; Greenleaf, James F.; Fatemi, Mostafa</td>
</tr>
<tr>
<td>4:48 PM–5:00 PM</td>
<td>Phantom Experiments Verifying Total Attenuation Estimating by Applying Multiple Gaussian Filters to Backscattered Echoes</td>
<td>Bigelow, Timothy A.*; Oelze, Michael L.</td>
</tr>
<tr>
<td>5:00 PM–5:12 PM</td>
<td>Theoretical Investigation of Strategies for Generating Crawling Waves Using Focused Beams</td>
<td>Cho, Yong Thung*; HaH, Zaegyoo; An, Liwei; Hazard, Christopher R.; Rubens, Deborah J.; Strang, John G.; Parker, Kevin J.</td>
</tr>
<tr>
<td>5:12 PM–5:24 PM</td>
<td>Effective Attenuation Estimations Using a Least Squares Method</td>
<td>Nam, Kibo*; Zagzebski, James A.; Hall, Timothy J.</td>
</tr>
</tbody>
</table>
## Clinical Sonography: Musculoskeletal and Head and Neck

**Moderator: Manjiri Dighe, MD, DMRE**  
Torrey 1/2 - North Tower/Lobby Level

### 4:00 PM–4:12 PM

<table>
<thead>
<tr>
<th>Presentation ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>693862</td>
<td>Color Doppler Ultrasonography in Patients Undergoing Thyroidectomy: Preliminary Results of a Prospective Randomized Trial</td>
<td>Illoeti, Giovanni*; Calo, Piergiorgio</td>
</tr>
</tbody>
</table>

### 4:12 PM–4:24 PM

<table>
<thead>
<tr>
<th>Presentation ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>692366</td>
<td>Accuracy of Sonographic Diagnosis of Superficial Masses</td>
<td>Wagner, Jason M.*; Lee, Kenneth S.; Rosas, Humberto G.; Kliewer, Mark A.</td>
</tr>
</tbody>
</table>

### 4:24 PM–4:36 PM

<table>
<thead>
<tr>
<th>Presentation ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>727126</td>
<td>Normative Cross-Sectional Area of the C5–C8 Nerve Roots Using Ultrasonography</td>
<td>Haun, Daniel W.*; Cho, John C.S.; Kettner, Norman W.</td>
</tr>
</tbody>
</table>

### 4:36 PM–4:48 PM

<table>
<thead>
<tr>
<th>Presentation ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>731307</td>
<td>Intra-Articular Sea Urchin Spine/Foreign Body Evaluation: Ultrasound Versus Fluoroscopy</td>
<td>Lyon, Matthew*; Illston, Blake; Caudell, Michael; DiCarlo, Jason; D’Zio, Robert; Bloch, Amy</td>
</tr>
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</table>

### 4:48 PM–5:00 PM

<table>
<thead>
<tr>
<th>Presentation ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>732206</td>
<td>Pilot Study Comparing Cross-Sectional Area of Quadriceps Muscles in Knees of Healthy Volunteers Versus Patients With Osteoarthritis Using Ultrasonography</td>
<td>Dickman, Eitan*; Strebel, Joseph S.; Franklin, Patricia D.; Likourezos, Antonios</td>
</tr>
</tbody>
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### 5:00 PM–5:12 PM

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<thead>
<tr>
<th>Presentation ID</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>732860</td>
<td>The Value of On-site Pathologic Evaluation in Determining the Adequacy of Ultrasound-Guided Biopsy of Thyroid Nodules</td>
<td>Chong, Wui K.*; Paul, Bhakti; Hartz, Doug; Parikh, Anup; Maygarden, Susan; Weisman, Lisa</td>
</tr>
</tbody>
</table>

### 5:12 PM–5:24 PM

<table>
<thead>
<tr>
<th>Presentation ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
</table>
Clinical Sonography: Obstetrics—Fetal Anomalies 1
Moderators: Seera Aziz, MD, and Anne Sandoval, RDMS
Marina E/F - South Tower/Level 3

4:00 PM–4:12 PM
689938  Isolated Lateral Ventriculomegaly: A Comparison of Prenatal Ultrasound and Fetal Magnetic Resonance Imaging
Mirza, Fadi*; Smithling, Katelyn; Van der Veer, Anne; Bauer, Samuel; Laifer-Narin, Sherelle L.; Simpson, Lynn L.

4:12 PM–4:24 PM
731613  Fetal Sacral Appendage or “Tail” in the Second Trimester: Prenatal Diagnosis, Associated Findings, and Clinical Outcome
Dobson, Lori J.*; Barnewolt, Carol E.; Connolly, Susan A.; Morash, Donna; Estroff, Judy A.

4:24 PM–4:36 PM
732017  Imaging Spectrum of Fetal Intracranial Hemorrhage
Kennedy, Anne*; Woodward, Paula; Byrne, Janice; Winter, Thomas

4:36 PM–4:48 PM
711704  Prenatal Sonographic Diagnosis of Genu Recurvatum
Fong, Katherine*; Chu, Bonnie; Toi, Ants; Chong, Karen; Keating, Sarah; Akoury, Hani; Chitayat, David

4:48 PM–5:00 PM
730487  Fetal Asymmetric Ventriculomegaly, Corpus Callosal Malformation, and Interhemispheric Cyst: An Imaging Triad
Oh, Karen Y.*; Sohaey, Roya; Kennedy, Anne

5:00 PM–5:12 PM
732514  Association Between Maternal Body Mass Index, Educational Level, and Major Fetal Malformations
Means, Jacquelyn M.; Odibo, Anthony O.*

5:12 PM–5:24 PM
732843  Traditional Prenatal Ultrasound Findings Suggesting the Diagnosis of Posterior Urethral Valves Are Poor Predictors of Diagnosis at Delivery
Barnewolt, Carol E.; Dobson, Lori J.*; Estroff, Judy A.; Connolly, Susan A.
Contrast-Enhanced Ultrasound

Moderators: Stephanie Wilson, MD, and Kirsten N. LaConte, BS, RDMS, RVT
Columbia 3 – North Tower/Lobby Level

4:00 PM–4:12 PM
732231 Diagnosis of Ovarian Cancer at Quantitative Color Doppler and Contrast-Enhanced Sonography
Lyshchik, Andrej*; Fleischer, Arthur C.; Jones, Howard W.; Fishman, David

4:12 PM–4:24 PM
732590 Lymphsonographic Detection of Secondary Lymph Nodes Compared to Surgery and Pathology
Goldberg, Barry B.; Merton, Daniel A.; Liu, Ji-Bin*; Berger, Adam C.; Witkiewicz, Agnieszka; Forsberg, Flemming

4:24 PM–4:36 PM
732385 Contrast-Enhanced Ultrasound in Internal Carotid Artery Stenosis in Patients With Predominantly Soft Plaques
Weskott, Hans-Peter

4:36 PM–4:48 PM
Tuthill, Theresa A.*; Swanson, Terri A.; Xie, Zhiyong; Liachenko, Serguei M.

4:48 PM–5:00 PM
732557 Noninvasive Cardiac Subharmonic Pressure Estimation In Vivo
Forsberg, Flemming*; Dave, Jaydev; Hall, Valgerdur G.; McDonald, Maureen; Liu, Ji-Bin; Leung, Corina; Dickie, Kris

5:00 PM–5:12 PM
730696 Breast Ductal Carcinoma In Situ: Imaging With Contrast-Enhanced Ultrasonography—Initial Experience
Xu, Ping; Wang, Yi*; Wang, Xiaohong

5:12 PM–5:24 PM
732373 Contrast-Enhanced Ultrasound in Gallbladder Diseases
Weskott, Hans-Peter
4:00 PM–5:30 PM

Just Images Sessions

Fetal Cardiac False-Positive and False-Negative Cases

Moderator: Lami Yeo, MD
San Diego B • North Tower/Lobby Level

Faculty: Greggory R. DeVore, MD, and Lami Yeo, MD

The objective of this session is to review the sonographic findings associated with selected fetal cardiac false-positive and false-negative cases.

Gynecologic Ultrasound

Moderators: Khaled Sakhel, MD, and Charlotte Henningsen, MS, RT, RDMS, RVT
San Diego A • North Tower/Lobby Level

Faculty: Khaled Sakhel, MD, and Charlotte Henningsen, MS, RT, RDMS, RVT

This course is designed to review selected gynecologic ultrasound cases.

How I Do It: Abdominal and Pelvic Ultrasound Emergencies

Moderator: Teresita Angtuaco, MD
San Diego C • North Tower/Lobby Level

Faculty: Teresita Angtuaco, MD, Anne Kennedy, MD, and Mark E. Lockhart, MD, MPH

This session will include case presentations of difficult emergent abdominal and scrotal cases that may be encountered in daily practice.

Multiple Gestations

Moderator: Deborah D’Agostini, RDMS
Marina D • South Tower/Level 3

Faculty: Christine Bird, RDMS, RVT, and James Pennington, RDMS

This course will cover normal and abnormal multiple-gestation cases.

Patients in Shock

Moderator: Anthony Dean, MD
Columbia 1/2 • North Tower/Lobby Level

Faculty: Anthony Dean, MD, and Christopher L. Moore, MD, RDMS, RDCS

This course is designed to show examples of common and rare causes of shock in patients, including medical, toxic, surgical, and traumatic.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:00 AM–4:30 PM</td>
<td>Registration Open</td>
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<tr>
<td>7:00 AM–8:00 AM</td>
<td>Meet-the-Professor Sessions</td>
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<tr>
<td>7:00 AM–8:00 AM</td>
<td>Postgraduate Course Committee Meeting</td>
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<tr>
<td>8:00 AM–10:00 AM</td>
<td>Clinical Standards Committee Meeting</td>
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<td>8:15 AM–9:45 AM</td>
<td>Categorical Courses</td>
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<tr>
<td>9:30 AM–4:45 PM</td>
<td>Exhibit Hall Open</td>
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<td>9:45 AM–10:45 AM</td>
<td>Community of Practice Meetings</td>
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<td>9:45 AM–10:45 AM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<tr>
<td>11:00 AM–12:30 PM</td>
<td>Scientific Sessions</td>
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<td>11:00 AM–12:30 PM</td>
<td>New Investigator Award Session</td>
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<td>11:00 AM–12:30 PM</td>
<td>Categorical Course</td>
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<td>12:30 PM–1:30 PM</td>
<td>Community of Practice Meetings</td>
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<td>12:30 PM–1:30 PM</td>
<td>Lunch in the Exhibit Hall</td>
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<td>12:30 PM–1:30 PM</td>
<td>Presidential Advisory Council Meeting</td>
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<td>12:30 PM–1:30 PM</td>
<td>Continuing Medical Education Committee Meeting</td>
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<td>12:30 PM–1:30 PM</td>
<td>Scientific Poster Discussion</td>
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<tr>
<td>1:00 PM–1:30 PM</td>
<td>Community of Practice Meetings</td>
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<tr>
<td>1:30 PM–2:30 PM</td>
<td>Endowment for Education and Research Committee Meeting</td>
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<td>1:30 PM–3:30 PM</td>
<td>Categorical Courses</td>
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<td>3:30 PM–4:30 PM</td>
<td>Community of Practice Meetings</td>
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<tr>
<td>3:30 PM–4:30 PM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<tr>
<td>3:30 PM–5:30 PM</td>
<td>Ultrasound Practice Accreditation Council</td>
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<tr>
<td>4:30 PM–5:30 PM</td>
<td>Community of Practice Meetings</td>
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<tr>
<td>4:30 PM–5:30 PM</td>
<td>Scientific Sessions</td>
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<td>4:30 PM–5:30 PM</td>
<td>Just Images Sessions</td>
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<tr>
<td>7:00 PM–11:00 PM</td>
<td>Leadership Banquet (by invitation only)</td>
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</table>
Additional CME Opportunities Available Through the AIUM

2010 Postgraduate Courses

Sonography Registry Review
June 5, 2010
MONTGOMERY COLLEGE • Takoma Park, Maryland

AIUM/ Mayo Diagnostic and Interventional Musculoskeletal Ultrasound: A Hands-on Approach
July 15–17, 2010
MAYO CLINIC • Rochester, Minnesota

AIUM/AACE Thyroid and Parathyroid Ultrasound
July 31–August 1, 2010
CAESARS PALACE • Las Vegas, Nevada

Fetal Echocardiography
November 6–7, 2010
WALT DISNEY WORLD SWAN AND DOLPHIN Hotel • Orlando, Florida

Cutting Edge Applications for Point-of-Care Ultrasound
November 6–7, 2010
WALT DISNEY WORLD SWAN AND DOLPHIN Hotel • Orlando, Florida

Diagnostic Ultrasound Principles and Instruments: Fundamentals and Advances
December 4–5, 2010
MONTGOMERY COLLEGE • Takoma Park, 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 Exhibit Hall, 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.

Subject to change.
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.

F1  Adult Transcranial Doppler Ultrasound  
Eva Bartels, MD  
Columbia 3 - North Tower/Lobby Level  
This session will discuss updates in adult transcranial Doppler ultrasound.

F2  Early Detection of Ovarian Cancer  
Arthur C. Fleischer, MD  
Columbia 1/2 - North Tower/Lobby Level  
The objective of this session is to discuss and illustrate the role of sonography for the early detection of ovarian cancer with transvaginal sonography (TVS), 3-dimensional (3D) TVS, 3D color Doppler sonography, and, potentially, contrast-enhanced TVS.

F3  Transvaginal/Transrectal Intervention: How to Do It  
Dean Nakamoto, MD, and Ahmet Turgut, MD  
Torrey 1/2 - North Tower/Lobby Level  
This session will show how to use transvaginal and transrectal ultrasound for interventional purposes.

F4  Ultrasound Evaluation of the Gastrointestinal Tract  
Monzer Abu-Yousef, MD  
Torrey 3 - North Tower/Lobby Level  
This course is designed to show scanning technique and ultrasound diagnosis of appendicitis, intussusception, bowel obstruction, and inflammatory bowel disease.

F5  Ultrasound Assessment of Pancreatic Transplants  
Edward Bluth, MD, and Laurie Troxclair, BS, RVT, RDMS  
Manchester - North Tower/Lobby Level  
This session will include ultrasound assessment for pancreatic transplant complications and a discussion about the surgical insertion of pancreatic transplants and the role that ultrasound plays in the follow-up of these patients.
8:15 AM–9:45 AM  
Categorical Courses

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

Aneuploidy Screening: First Trimester, Second Trimester, Sequential, or Else?  
*Moderator: E. Rebecca Pschirrer, MD, MPH*  
Marina E/F – South Tower-Level 3

This course will involve variations on aneuploidy screening, including first-trimester nuchal translucency with blood work, second-trimester screening with the quad screen, and sequential screening.

8:15 AM–8:45 AM  
Aneuploidy Screening and Patient Choice: Navigating the Options  
*E. Rebecca Pschirrer, MD, MPH*

8:45 AM–9:15 AM  
Screening for Multiples: Double Jeopardy  
*Andrei Rebarber, MD*

9:15 AM–9:45 AM  
Aneuploidy Screening: Translating Paper to Patient  
*Julian N. Robinson, MD*

Clinical Applications of Uterine Ultrasound 2010  
*Moderator: Steven R. Goldstein, MD*  
Marina D – South Tower-Level 3

This course will provide attendees with up-to-date information on the controversies regarding sonographic evaluation of endometrial disorders and their management.

8:15 AM–8:45 AM  
The Use of Ultrasound in Postmenopausal Bleeding  
*Peter M. Doubilet, MD, PhD*

8:45 AM–9:15 AM  
Incidental Findings in the Uterus on Transvaginal Ultrasound: What do They Mean?  
*Steven R. Goldstein, MD*

9:15 AM–9:45 AM  
Diagnosis and Treatment of Abnormal Uterine Bleeding  
*James M. Shwayder, MD, JD*
Fusion and Volume Imaging in the Abdomen

Moderators: William Medford, RDMS, and Salvatore LaRusso, MEd, RDMS, RT(R)
Torrey 3 • North Tower/Lobby Level

This course will discuss how fusion imaging works and its uses in the abdomen, especially with biopsies. The course will also examine volume scanning, how it works, what it is, and how to apply it in the abdomen.

8:15 AM–8:45 AM  Ultrasound Fusion: A Review of Instrumentation and Methods
Paul L. Mullen, MSEE

8:45 AM–9:15 AM  Fusion Imaging and Biopsies
M. Robert De Jong, RDMS, RDMS, RVT

9:15 AM–9:45 AM  Acquisition Options in Volume Imaging
Jennifer A. McDowell, RVT, RDMS, RT

Head and Neck Ultrasound in the Emergency Department and Intensive Care Unit

Moderator: David P. Bahner, MD, RDMS
Torrey 1/2 • North Tower/Lobby Level

The objective of this course is to discuss point-of-care head and neck ultrasound applications for acute medical and surgical conditions found in the emergency department and intensive care unit.

8:15 AM–8:45 AM  Evaluation of the Upper Airway in the Intensive Care Unit
Alexander Levitov, MD

8:45 AM–9:15 AM  Head and Neck Ultrasound in the Intensive Care Unit
Chris Butcher, MD

9:15 AM–9:45 AM  Emergency Department Applications for Head and Neck Ultrasound
Michael Stone, MD, RDMS
High-Intensity Therapeutic Ultrasound

Moderators: Thomas Szabo, PhD, and Michael L. Oelze, PhD
San Diego C • North Tower/Lobby Level

This course is designed to educate and familiarize the audience with the latest applications, techniques, and clinical and experimental results of therapeutic uses of high-intensity ultrasound.

8:15 AM–8:30 AM  Imaging-Guided High-Intensity Focused Ultrasound Ablation of Tumors: Current Developments and Clinical Applications  
Feng Wu, MD

8:30 AM–8:45 AM  Therapeutic Applications of Supersonic Shear Wave Imaging and Time Reversal Focusing  
Mathias Fink, MD

8:45 AM–9:00 AM  Focused Ultrasound for Brain Treatments  
Kullervo Hynynen, PhD, MSc

9:00 AM–9:15 AM  Therapy Arrays and Monitoring Therapy  
Emad Ebbini, PhD

9:15 AM–9:30 AM  Historical Perspectives of High-Intensity Focused Ultrasound Therapy and Related Bioeffects  
William D. O’Brien, Jr, PhD

New Developments in Intraoperative Ultrasound

Moderator: Deborah Rubens, MD
San Diego A • North Tower/Lobby Level

The main objective of this course is to introduce attendees to new developments in intraoperative ultrasound, including laparoscopic ultrasound for gynecologic surgery, office procedures such as cryotherapy, and intraoperative laparoscopic ultrasound of the liver.

8:15 AM–8:45 AM  Intraoperative Ultrasound  
Rick Feld, MD

8:45 AM–9:30 AM  Intraoperative Laparoscopy: Genitourinary  
Guan Wu, MD
Pediatric Abdominal Applications of Color Doppler Ultrasound

Moderator: Harriet Paltiel, MD
Columbia 1/2 - North Tower/Lobby Level

This course will discuss the role of color Doppler ultrasound in assessing abnormalities of the aorta, inferior vena cava, solid-organ vasculature, transplants, and tumors.

8:15 AM–8:40 AM  Pediatric Renal Doppler Ultrasound
Brian D. Coley, MD

8:40 AM–9:05 AM  Hepatic Disorders: Portal Hypertension and Tumors
Michael Riccabona, MD

9:05 AM–9:30 AM  Hepatic Disorders: Transplants and Disorders of the Great Vessels
Harriet Paltiel, MD

9:30 AM–9:45 AM  Questions and Answers

Three- and 4-Dimensional Fetal Heart Volume Review and Diagnosis

Moderator: Mark Sklansky, MD
Marina G - North Tower/Lobby Level

The objective of this course is to review fetal cardiac data obtained from 3-dimensional (3D)/4D data acquisition with volume review performed offline during the presentation. The approach to volume data manipulation and obtaining diagnostically useful images will be demonstrated and will include examples of normal hearts and congenital heart disease. The overall indications and utility of 3D/4D data for evaluation of the fetal heart will be reviewed.

8:15 AM–8:35 AM  The Case for 3-Dimensional (3D)/4D Ultrasound and Introduction to 3D/4D Imaging (Spatiotemporal Image Correlation–Matrix): How to Acquire a Volume
Liat Gindes, MD

8:35 AM–9:10 AM  Navigating Through the Normal Fetal Cardiac Volume: Confirmation of Normalcy
Lami Yeo, MD

9:10 AM–9:45 AM  Navigating Through the Abnormal Fetal Cardiac Volume: Differential Diagnosis
Wesley Lee, MD
Ultrasound Contrast Agents: Where Are We Now and What Is the Future?

Moderator: Lennard Greenbaum, MD
Columbia 3 – North Tower/Lobby Level

The objective of this course is to learn how ultrasound contrast agents (UCAs) are being used worldwide, to be aware of the status of UCAs in the United States, and to understand the potential therapeutic uses of microbubbles with ultrasound.

8:15 AM–8:45 AM  Contrast-Enhanced Ultrasound: Its Role in Radiology Outside the United States
Stephanie R. Wilson, MD

8:45 AM–9:05 AM  Contrast-Enhanced Ultrasound Use in the United States: What Have We Been Doing?
Robert F. Mattrey, MD

9:05 AM–9:25 AM  What Are the Latest Developments?
Barry B. Goldberg, MD

9:25 AM–9:45 AM  The Holy Grail: Ultrasound Microbubbles for Therapy
Flemming Forsberg, PhD

Vascular Screening

Moderator: Edward Bluth, MD
San Diego B – North Tower/Lobby Level

This course will discuss vascular screening and will also include screening for abdominal aortic aneurysms, carotid stenosis, and peripheral arterial disease.

8:15 AM–8:45 AM  Screening for Carotid Stenosis
Edward Bluth, MD

8:45 AM–9:15 AM  Abdominal Aortic Aneurysm Screening
Raymond Bertino, MD

9:15 AM–9:45 AM  Noninvasive Vascular Laboratory for Evaluation of Peripheral Arterial Occlusive Disease
Steven C. Rose, MD

9:45 AM–10:45 AM  Community of Practice Meetings

Contrast-Enhanced Ultrasound | Columbia 3 – North Tower/Lobby Level
Emergency and Critical Care Ultrasound | Torrey 1/2 – North Tower/Lobby Level
Interventional-Intraoperative Ultrasound | San Diego A – North Tower/Lobby Level
Practice of Sonography | Marina D – South Tower/Level 3
9:45 AM–10:45 AM
Refreshment Break in the Exhibit Hall

11:00 AM–12:30 PM
Scientific Sessions

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

Basic Science: Image Processing and Analysis
Moderators: Chandra Sehgal, PhD, and Caterina Gallippi, PhD
San Diego C – North Tower/Lobby Level

11:00 AM–11:12 AM
730432 A Real-time High-Quality Radio Frequency-Based Speckle-Tracking Method
Luo, Jianwen; Konofagou, Elisa E.*

11:12 AM–11:24 AM
732524 Three Hundred Sixty-Degree Compounded Refraction-Corrected Reflection Images of the Human Breast
Borup, David; Wiskin, James*; Pelligretti, Paolo; Brusaca, Marco; Klock, John; Johnson, Steven; Berggren, Michael; Hanover, Barry

11:24 AM–11:36 AM
728418 Analysis of Carotid Lumen Surface Morphology Using 3-Dimensional Ultrasound Imaging
Chiu, Bernard*; Beletsky, Vadim; Spence, J. David; Parraga, Grace; Fenster, Aaron

11:36 AM–11:48 AM
692660 Effect of a Learning Algorithm on Automated Tracings of Adventitia Borders in Atherosclerotic Common Carotid Artery Ultrasound
Molinari, Filippo; Zeng, Guang; Suri, Jasjit*

11:48 AM–12:00 PM
742701 Preclinical Evaluation of Acoustic Radiation Force Impulse Ultrasound for Assessment of Renal Fibrosis
Scola, Mallory R.; Nichols, Timothy C.; Chong, Wui; Gallippi, Caterina M.*

12:00 PM–12:12 PM
732886 Automated Algorithm for Extracting Vascular Architecture in Maximum-Intensity Projection Images
Joshi, Neha*; Forsberg, Flemming

12:12 PM–12:24 PM
730949 Histologic Validation of a Plaque Characterization Framework Based on Contrast-Enhanced 2-Dimensional Ultrasound Images
Molinari, Filippo; Giustetto, Pierangela; Liboni, William; Suri, Jasjit*
Basic Science: Instrumentation I

Moderators: Peter Lewin, MDC, PhD, and K. Kirk Shung, PhD
Marina D – South Tower/Level 3

11:00 AM–11:12 AM
726889  Challenges and Advances in Medical Ultrasound Metrology: 100-MHz Spatial-Averaging Free Ultrasonic Hydrophone Probes for Theragnostic Applications
Lewin, Peter A.*; Daryoush, Afshin S.; Gopinath, Rupa; Manseta, Kushali; El-Sherif, Mahmoud; Berger, W. Andrew

11:12 AM–11:24 AM
732332  Ultrasound Image-Guided Robotic Breast Biopsy
Nelson, Thomas R.*; Nebeker, Jakob

11:24 AM–11:36 AM
732399  Low-Cost 5-Dimensional Breast Ultrasound
Nebeker, Jakob*; Nelson, Thomas R.

11:36 AM–11:48 AM
732315  Speckle-Free C-Scan Ultrasound Camera Using a 2-Dimensional Imaging Array: A Preliminary Investigation for Foreign Bodies and Bone Fractures
Lasser, Bob*; Freedman, Matthew; Lo, Ben

11:48 AM–12:00 PM
732541  Comparative Imaging Study Using a Multimodality Renal Artery Phantom
King, Deirdre M.*; Moran, Carmel M.; Browne, Jacinta E.

12:00 PM–12:12 PM
730197  Transverse Acoustic Trapping Using Single-Beam Ultrasound
Lee, Jungwoo; Shung, K. Kirk*

12:12 PM–12:24 PM
732817  Lesion Localization and Quantification Using Harmonic Motion Imaging for Focused Ultrasound: A Simulation Study With In Vitro Validation
Hou, Gary Y.; Luo, Jianwen; Maleke, Caroline; Konofagou, Elisa E.*
Basic Science: Tissue Characterization (Nonclinical) 2

Moderators: James Miller, MS, PhD, and Sheikh Kaiser Alam, PhD
Marina G - South Tower/Level 3

11:00 AM–11:12 AM
728535 Estimating the Attenuation Slope From Backscattered Ultrasonic Signals of Rat Fibroadenomas
Haak, Alexander*; Sen-Gupta, Ellora; Battles, Andrew P.; Hafez, Zachary T.; Madsen, Ernest L.; Hall, Timothy J.; O’Brien, William D. Jr

11:12 AM–11:24 AM
730200 First Experimental Implementation of Scatterer Size Imaging on an Ultrasonic Breast Tomographic Scanner
Lavarello, Roberto J.*; Berggren, Michael; Johnson, Steven; Oelze, Michael L.

11:24 AM–11:36 AM
732882 An Ultrasonic Multifeature Analysis Procedure for Computer-Aided Diagnosis of Solid Breast Lesions
Alam, S. Kaisar*; Feleppa, Ernest J.; Rondeau, Mark; Kalisz, Andrew

11:36 AM–11:48 AM
731294 Correction for Transmission Through a Phantom Window in Backscatter Coefficient Measurements
Stiles, Timothy*; Bampoh, Daniel

11:48 AM–12:00 PM
737683 Dynamic In Vivo Cardiac Stiffness Assessment With Acoustic Radiation Force Impulse Imaging
Hsu, Stephen J.*; Trahey, Gregg E.; Wölfl, Patrick D.; Dahl, Jeremy J.

12:00 PM–12:12 PM
736342 Noninvasive Characterization of Carotid Plaques With Acoustic Radiation Force Impulse Imaging
Dahl, Jeremy J.*; Allen, Jason D.; Dumont, Douglas M.; Ham, Katherine L.; Trahey, Gregg E.

12:12 PM–12:24 PM
730164 Analysis of Human Fibroadenoma Using 3-Dimensional Impedance Maps
Dapore, Alexander*; Sarwate, Sandhya; Harter, Josephine; Oelze, Michael L.; Zagzebski, James A.; Hall, Timothy J.; Do, Minh N.; O’Brien, William D. Jr
Clinical Sonography: Emergency 1

Moderators: Michael Blaivas, MD, and Christopher L. Moore, MD, RDMS, RDCS
Marriott 5 - Marriott Pavilion/Lobby Level

11:00 AM–11:12 AM
724230 Frequency and Presentation of Isolated Deep Femoral Vein Thrombosis on Point-of-Care Ultrasound Examinations Blaivas, Michael

11:12 AM–11:24 AM
732584 Tissue Doppler Ultrasound by Emergency Physician Echocardiography Correlates With Simulated Hypovolemia in a Lower Body Negative Pressure Model Moore, Christopher L.*; Tham, Edward; Samuels, Kathleen; Galante, Nicholas; Stachenfeld, Nina; Silverman, David

11:24 AM–11:36 AM
732765 The Dynamic Anatomic Relationship of the Trachea and Esophagus at the Cricoid Ring on Ultrasonography: Implications for Cricoid Pressure During Airway Management Fenster, Daniel B.; Kessler, David; Novik, Joseph; Tsung, Jim*

11:36 AM–11:48 AM
732378 Diagnosis of Intussusceptions by Novice Sonographers in the Emergency Department Chen, Lei*; Hsiao, Allen; Riera, Antonio; Goodman, Thomas R.

11:48 AM–12:00 PM
732801 Confirmation of Endotracheal Tube Placement With Color Doppler Ultrasound: A Novel Airway Ultrasound Technique Gharahbaghian, Laleh*; Williams, Sarah R.; Wu, Teresa; Jeffrey, R. Brooke; Goodwin, Tress; Harter, Katie; Angelotti, Timothy; Auerbach, Paul

12:00 PM–12:12 PM
732905 Utility of Bedside Ultrasound in the Prediction of Difficult Airways Adhikari, Srikar*; Zeger, Wes; Craven, Ian; Schmier, Charles; Crum, Todd; Frrokaj, Illir; Pang, Huiling

12:12 PM–12:24 PM
716039 Emergency Department Scribes: A New Resource for Bedside Ultrasound Image Acquisition? Bangale, Anita*; Shokoohi, Hamid; Boniface, Keith; Liu, Yiju Teresa; Woods, Amie
Clinical Sonography: Obstetrics—Fetal Anomalies 2

Moderators: Eran Bornstein, MD, and Deborah D’Agostini, RDMS
San Diego B - North Tower/Lobby Level

11:00 AM–11:12 AM
732488 Fetal Abdominal Wall Defects: Neonatal Outcomes by Mode of Delivery
Leftwich, Heidi K.*; Egan, James F. X.; Herson, Victor; Borgida, Adam

11:12 AM–11:24 AM
732570 Consistency in Prenatal Evaluation of Gastroschisis
Holland, Marium*; Mastrobattista, Joan M.

11:24 AM–11:36 AM
731240 Sonographic Visualization of the Fetal Anus on an Anomaly Scan
Vijayaraghavan, S.Boopathy

11:36 AM–11:48 AM
731489 Aicardi Syndrome: Rare or Unrecognized?
Shah, Lubdha; Byrne, Janice; Kennedy, Anne*

11:48 AM–12:00 PM
732706 Identification of Fetal Abnormalities in the Third Trimester After a Second-Trimester Structural Fetal Survey
Shipp, Thomas D.*; Bromley, Bryann; Benacerraf, Beryl R.

12:00 PM–12:12 PM
732855 Down Syndrome Plus
Byrne, Janice L. B.*; Woodward, Paula J.; Winter, Thomas C.; Kennedy, Anne

12:12 PM–12:24 PM
731032 Association Between Major Structural Abnormalities Seen on Second-Trimester Ultrasound and Chromosomal Abnormalities
Meints, Laura*; Odibo, Anthony O.
Clinical Sonography: Vascular
Moderators: Gordana Ivanac, MD, PhD
San Diego A - North Tower/Lobby Level

11:00 AM–11:12 AM
730980 Ultrasound of Forearm Arteries in the Selection of Patients for Radial Artery Harvesting in Coronary Artery Bypass Grafting Brkljacic, Boris; Ivanac, Gordana*; Huzjan-Korunic, Renata; Cikara, Igor; Delic-Brkljacic, Diana

11:12 AM–11:24 AM
727691 Isolated Superficial and Deep Femoral Vein Thrombosis: Implications for 2-Point Compression Ultrasonography Adhikari, Srikar*; Zeger, Wes; Frrokaj, Illir

11:24 AM–11:36 AM
691529 Peripheral Arterial Waveform Descriptors: Absent, Vague, and Contradictory Scissons, Robert*; Comerota, Anthony J.

11:36 AM–11:48 AM
678319 Ultrasonographic Demonstration of External and Internal Carotid Artery Patency in Takayasu Arteritis Li, Jie*; Shi, Dandan; Wei, Yun; Xiao, Jing

11:48 AM–12:00 PM
729416 Cost-Effective Carotid Screening Using a New Doppler Ultrasound System: Results of a Clinical Trial Vilkomerson, David*; Lieboff, Richele; Outcault, Robert; Blebea, John; Jacobowitz, Glenn; Goldman, Kenneth

12:00 PM–12:12 PM
686241 Ultrasonographic Demonstration and Clinical Significance of the Accessory Hepatic Veins in Budd-Chiari Syndrome Li, Jie*; Wei, Yun; Xiao, Jing; Shi, Dandan

12:12 PM–12:24 PM
732833 Investigating Tumor Vascular Radiosensitization With 3-Dimensional Power Doppler Ultrasound El Kaffas, Ahmed*; Czarnota, Gregory J.; Giles, Anoja
Contrast-Enhanced Ultrasound 2

Moderators: Dennis Paul, RDMS, RDCS, and Flemming Forsberg, PhD
Torrey 1/2 - North Tower/Lobby Level

11:00 AM–11:12 AM
732356  Route of Administration Influences Contrast Uptake and Distribution in a Rat Orthotopic Liver Tumor Model
Swanson, Terri A*; Patterson, Kristin J.; Kreuser, Steven C.; Wilkie, Dean; Bagi, Cedo

11:12 AM–11:24 AM
730838  Ultrasonographic Breast Imaging Reporting and Data System Category 4 Lesions: Value of Real-Time Gray Scale Contrast-Enhanced Ultrasonography in Differential Diagnosis
Wang, Yi*; Xu, Ping; Fu, Lina; Wang, Xiaohong

11:24 AM–11:36 AM
731359  Effects of Dietary Cholesterol, Ultrasonic Exposure of the Auricular Artery, and a Contrast Agent on Expression of the von Willebrand Factor in Rabbits
King, Jennifer L.; Miller, Rita J.; He, Zhi; Liu, Kailin; Blue, James P.; Tu, Michael J.; Erdman, John W.; Simpson, Douglas G.*; O’Brien, William D. Jr

11:36 AM–11:48 AM
732211  Visualizing Atherosclerotic Plaque Neovascularature Using Subharmonic Intravascular Ultrasound: A Feasibility Study
Forsberg, Flemming*; Lobel, Beata E.; deMuinck, Ebo D.; Doyley, Marvin M.

11:48 AM–12:00 PM
732453  Microbubble Contrast Imaging of the Chick Embryo Cardiovascular System
Schellpfeffer, Michael A.*; Kolesari, Gary L.

12:00 PM–12:12 PM
732401  Volume Calculation in Hypervascular Liver Tumors: Comparing B-Mode Ultrasound to Different Phases During Contrast-Enhanced Ultrasound Imaging
Weskott, Hans-Peter

12:12 PM–12:24 PM
732199  Dynamic Cumulative Maximum-Intensity Display Mode for Subharmonic Breast Imaging: A Comparative Study With Mammography and Conventional Ultrasound Techniques
Dave, Jaydev*; Forsberg, Flemming; Piccoli, Catherine W.; Merton, Daniel A.; Palazzo, Juan P.; Hall, Anne L.
New Research and Applications
Moderator: Abid Irshad, MD
Columbia 3 – North Tower/Lobby Level

11:00 AM–11:12 AM
731239 Glomerular Capillary Hemorrhage Induced in Swine by Contrast-Enhanced Diagnostic Ultrasound
Miller, Douglas*; Dou, Chunyan; Wiggins, Roger C.

11:12 AM–11:24 AM
729610 Evaluation of Biliary Dyskinesia by 4-Dimensional Volume Ultrasound Imaging of the Gallbladder
Irshad, Abid*; Ackerman, Susan J.; Anis, Munazza; Campbell, Amy; Hashmi, Atif

11:24 AM–11:36 AM
693870 Sonographic Diagnosis of Persistent Pain After Inguinal Herniorrhaphy: Preliminary Results of a Prospective Randomized Trial
Illomei, Giovanni*; Calo, Piergiorgio; Demontis, Roberto

11:36 AM–11:48 AM
727518 Ultrasonic Assessment of Preconditioned Scaffolds in Articular Cartilage
Ghorayeb, Sleiman R.*; Awad, Tala; Razzano, Pasquale; Grande, Daniel A.

11:48 AM–12:00 PM
730386 Photocoustic Imaging of Gold Nanorods: Ophthalmic Applications
Silverman, Ronald H.*; Kong, Fanting; Chen, Y. C.; Lloyd, Harriet O.

12:00 PM–12:12 PM
731054 Ultrasonographic Assessment of Digital Nerve Injuries
Magge, Keshav*; Liebling, Ralph; Umans, Hilary; Kessler, James; de la Lama, Mauricio

12:12 PM–12:24 PM
726956 The Clinical Value of Examining the Flexor Pollicis Longus Muscle Tendon by High-Frequency Ultrasonography
Zhansen, E.*; Xinyu, Zhao; Min, Chen; Wenzhenhong, Xu; Yin, Zhang; Zhanmei, Liu; Haixia, L.
Therapeutic Ultrasound
Moderator: Michael Kolios, MD
Columbia 1/2 • North Tower/Lobby Level

11:00 AM—11:12 AM
729467  Acoustic Droplet Vaporization for Enhancement of High-Intensity Focused Ultrasound Therapy
Zhang, Man*; Fabiilli, Mario L.; Haworth, Kevin J.; Swanson, Scott D.; Padilla, Frederic; Kripfgans, Oliver D.; Carson, Paul L.; Fowlkes, J. Brian

11:12 AM—11:24 AM
732914  Transcranial Focused Ultrasound for Blood-Brain Barrier Opening: Numerical Simulations With In Vitro Validation in Human and Monkey Skulls
Deffieux, Thomas; Konofagou, Elisa*

11:24 AM—11:36 AM
731449  Examining the Role of Ultrasound Contrast Agents in Ultrasound-Induced Angiogenesis
Johnson, Chenara A.*; O’Brien, William D. Jr

11:36 AM—11:48 AM
732475  Microbubble and Ultrasound Enhancement of Radiation-Induced Tumor Cell Death In Vivo
Czarnota, Gregory J.*; Lee, Justin; Giles, Anoja; Karshafian, Raffi

11:48 AM—12:00 PM
729355  Ultrasound Improves Convection-Enhanced Drug Delivery to the Brain
Lewis, George K.

12:00 PM—12:12 PM
732470  Microbubble and Ultrasound Induction of Gene Expression Associated With Novel Radiation-Enhancing Therapy
Czarnota, Gregory J.*; Karshafian, Raffi; Giles, Anoja; Al Mahrouki, Azza

12:12 PM—12:24 PM
724387  In Vivo Noninvasive Thermometry by B-Mode Ultrasound Imaging
Pouch, Alison*; Cary, Ted; Schultz, Susan; Sehgal, Chandra
11:00 AM–12:30 PM
New Investigator Session
Moderators: Rochelle Andreotti, MD, and Andrej Lyshchik, MD, PhD
Torrey 3 - North Tower/Lobby Level

11:00 AM–11:12 AM
732599 Right Ventricular Strain on Focused Emergency Physician Echocardiography Predicts Pulmonary Embolism
Carmody, Kristin*; Goralnick, Eric; Osborne, Michael; Manson, William; Bomann, John; Moore, Christopher L.

11:12 AM–11:24 AM
732526 Sonographic Findings Associated With the Diagnosis of Invasive Placentation
Taché, Véronique*; Eskander, Ramez; Ramos, Gladys A.; Romine, Lorene; Benirschke, Kurt; Moore, Thomas R.

11:24 AM–11:36 AM
694544 A Computer-Aided Diagnostic Method for Assessment of Findings on Breast Sonograms
Ledgerwood, Melissa*; Andre, Michael; Galperin, Michael; Ojeda-Fournier, Haydee; Olson, Linda; O'Boyle, Mary; Comstock, Christopher

11:36 AM–11:48 AM
725579 Ultrasound and Magnetic Resonance Imaging in Fetuses With Ventriculomegaly: Can Cortical Development Be Used to Predict Postnatal Outcome?
Li, Yi*; Estroff, Judy A.; Mehta, Tejas S.; Robertson, Richard L.; Robson, Caroline D.; Poussaint, Tina Y.; Feldman, Henry A.; Levine, Deborah

11:48 AM–12:00 PM
732786 Recurrence in the Thyroidectomy Bed: Sonographic Findings
Kamaya, Aya*; Gross, Megan; Jeffrey, Brooke R.

12:00 PM–12:12 PM
713702 Correlation of Quantified Contrast-Enhanced Sonography to In Vivo Tumor Response
Hwang, Misun*; Lyshchik, Andrej; Harriri, Ghazal; Hallahan, Dennis; Fleischer, Arthur C.

12:12 PM–12:24 PM
727038 Ultrasonic Techniques for Monitoring Restoration of Blood Flow to Breast Cancer Following Bevacizumab Therapy
Hoyt, Kenneth*; Warram, Jason M.; Umphrey, Heidi; Belt, Lin; Lockhart, Mark E.; Robbin, Michelle; Zinn, Kurt R.
11:00 AM–12:30 PM
Categorical Course

Innovations and Updates in Gynecologic Ultrasound: Sharpen Your Skills
Moderator: Beryl R. Benacerraf, MD
Marina E/F - South Tower/Level 3

This course will present new applications of pelvic sonography, including 3-dimensional (3D) imaging, guided procedures, and pelvic floor 3D sonography.

11:00 AM–11:20 AM
Contrast-Enhanced Ultrasound and Ovarian Cancer
Arthur C. Fleischer, MD

11:20 AM–11:40 AM
Magnetic Resonance–Guided Focused Ultrasound Ablation of Uterine Fibroids
Gina Hesley, MD

11:40 AM–12:00 PM
Update on Gynecologic Volume (3-Dimensional) Sonography
Beryl R. Benacerraf, MD

12:00 PM–12:30 PM
Interesting Cases
Lawrence Platt, MD, and Ilan E. Timor-Tritsch, MD

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

Obstetric Ultrasound | San Diego B - North Tower/Lobby Level

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

AIUM Apple Giveaway Drawing! | iPod Shuffle
Winner will be posted at the AIUM Resource Center—Booth 100. There’s still time to stop by and submit your entry for additional drawings.

12:30 PM–1:30 PM
Scientific Poster Discussion
Leucadia, Oceanside, Pacific, Point Loma, Solana - South Tower/Level 1
See page 113 for list of posters.

1:00 PM–1:30 PM
Community of Practice Meeting

High-Frequency Clinical and Preclinical Imaging | Columbia 1/2 - North Tower/Lobby Level
Eleven concurrent in-depth courses presented by top experts in the field are conducted during this period.

**Advances in Beam-Forming Technology**

*Moderators: James A. Zagzebski, PhD, and Kai Thomenius, PhD*

San Diego A - North Tower/Lobby Level

Participants will learn about several new beam formation technologies, including processing for 2-dimensional (2D) arrays in 4D imaging, software beam formation, acquisition of multiple receive lines per transmit, and correction of speed of sound variations.

**1:30 PM–1:55 PM**

[Trends Affecting the Ultrasound Industry and Their Impact on Clinical Applications](#)

*Kai Thomenius, PhD*

**1:55 PM–2:15 PM**

[Real-time Synthetic Aperture Ultrasound](#)

*Jorgen A. Jensen, PhD*

**2:15 PM–2:40 PM**

[Software Beam Formation](#)

*Ron Daigle, PhD*

**2:40 PM–3:00 PM**

[Rigorous Design of Ultrasound Beam Formers](#)

*William F. Walker, PhD*

**3:00 PM–3:20 PM**

[Aberration Correction and Clutter Rejection in Beam Forming](#)

*Jeremy Dahl, PhD*

**3:20 PM–3:30 PM**

[Questions and Answers](#)

**Advances in Fetal, Neonatal, and Pediatric Neurosonology**

*Moderator: Beth M. Kline-Fath, MD*

Columbia 3 - North Tower/Lobby Level

This course will cover the evaluation of fetal, neonatal, and pediatric central nervous system abnormalities that can be evaluated by neurosonology. Correlation with long-term outcomes will be discussed.

**1:30 PM–1:55 PM**

[Sonography of the Fetal Brain](#)

*Beth M. Kline-Fath, MD*

**1:55 PM–2:15 PM**

[Sonography of the Fetal Spine](#)

*Beth M. Kline-Fath, MD*

**2:15 PM–2:40 PM**

[Sonography of the Infant Brain: Hemorrhage and Hypoxic-Ischemic Disease](#)

*Henrietta K. Rosenberg, MD*

**2:40 PM–3:00 PM**


*Michael A. DiPietro, MD*

**3:00 PM–3:20 PM**

[Pediatric Ocular Sonography: What We Can See](#)

*Beth McCarville, MD*
Doppler Ultrasound of the Abdomen: Applications and Techniques

Moderator: Mark E. Lockhart, MD, MPH
Marina D • South Tower/Level 3

This course will discuss Doppler evaluation in cirrhosis and portal hypertension, Doppler evaluation of transjugular intrahepatic portosystemic shunt patency, when to use Doppler ultrasound in the urinary tract, and the role of Doppler ultrasound in evaluation of renal pathology and renal artery obstruction. Controversial topics such as the value of the resistive index and ureteric jets for diagnosis of urinary obstruction will also be discussed, as well as Doppler evaluation of the aorta and mesenteric vessels and ultrasound screening for abdominal aortic aneurysms.

1:30 PM–2:10 PM  Doppler Evaluation of the Liver, Biliary Tree, and Portal Hypertension
Paul Sidhu, BSc, MRCP

2:10 PM–2:50 PM  Doppler Ultrasound of the Urinary Tract: What It's Good for, What It's Not
Mark E. Lockhart, MD, MPH

2:50 PM–3:30 PM  Evaluation of the Aorta and Mesenteric Arteries
Phillip Bendick, PhD

Ultrasound of Normal Anatomy and Anomalies in the First Trimester

Moderator: Dolores H. Pretorius, MD
Marina E/F • South Tower/Level 3

This course will cover normal anatomy and anomalies seen in the first trimester.

1:30 PM–2:00 PM  Can You Really See the Anatomy?
Ilan E. Timor-Tritsch, MD

2:00 PM–2:30 PM  Fetal Evaluation in the First Trimester: Current Practices
Ants Toi, MD

2:30 PM–3:00 PM  Three-Dimensional Sonography of the Brain
Ana Monteagudo, MD, RDMS

3:00 PM–3:30 PM  The Fetal Heart in the First Trimester
Greggory R. DeVore, MD
Educational Advancement for Sonographers
Moderators: Audrey Fleming, RDMS, RVS, and Diana McCormick Strickland, BSBA, RDMS, RDMS
Torrey 3 - North Tower/Lobby Level
This course will provide updates and discussions on the advanced practice sonographer and will look at various ways to obtain that degree, traditional versus online.

1:30 PM–2:30 PM Higher Educational Options for the Sonographer: An Overview of Some of the Degrees and Program Types Currently Available
Audrey Fleming, RDMS, RVS

2:30 PM–3:30 PM Workplace Advancements and Options for the Sonographer
Diana McCormick Strickland, BSBA, RDMS, RDMS

Fetal Cardiac Diagnosis and Management Resources
Moderator: Lami Yeo, MD
San Diego B - North Tower/Lobby Level
The objective of this course is to review fetal cardiac diagnosis, specifically focusing on resources that are available from professional societies and online websites, to assist professionals in diagnosing fetal congenital heart disease and preparing for postnatal pediatric cardiology follow-up.

1:30 PM–2:10 PM Prenatal Management of Major Congenital Heart Disease
Miwa K. Geiger, MD

2:10 PM–2:50 PM Early Postnatal Management of Major Congenital Heart Disease
Mark Sklansky, MD

2:50 PM–3:15 PM Resources on the Web: The Best of the Best for Patients and Practitioners
Jay Pruetz, MD

3:15 PM–3:30 PM Questions and Answers
Hands-on Carotid and Transcranial Doppler Ultrasound: Technique and Basic Interpretation

Moderators: Charles Tegeler, MD, and Edward Bluth, MD
Marriott Hall 5 - Marriott Pavilion/Lobby Level

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

1:30 PM–1:45 PM  Transcranial Doppler Interpretation
   Tatjana Rundek, MD, PhD

1:45 PM–2:00 PM  Transcranial Doppler Evaluation
   Charles Tegeler, MD

2:00 PM–2:20 PM  The Duplex Carotid Evaluation
   Edward Bluth, MD

2:20 PM–3:30 PM  Hands-on Faculty: Eva Bartels, MD, PhD, John Blebea, MD, Edward Bluth, MD, M. Robert De Jong, RDCS, RDMS, RVT, Zolt Garami, MD, Tatjana Rundek, MD, PhD, Leslie Scoutt, MD, Charles Tegeler, MD, and Laurie Troxclair, BS, RVT, RDMS

Microvascular Imaging

Moderators: Gregory J. Czarnota, PhD, MD, and Chandra M. Sehgal, PhD
Columbia 1/2 - North Tower/Lobby Level

High-frequency ultrasound has found recent use to study the microcirculation of tissues and tumors. This course will describe techniques and applications of microvascular Doppler ultrasound for biological questions and vascular-targeted therapies.

1:30 PM–1:55 PM  Quantitated Contrasted Sonography in the Assessment of Tumor Response
   Arthur C. Fleischer, MD

1:55 PM–2:20 PM  Quantitative Microvessel Imaging of Melanoma in Mice
   Chandra M. Sehgal, PhD

2:20 PM–2:40 PM  Parametric Microvessel Quantitative Ultrasound
   John Hudson, PhD

2:40 PM–3:00 PM  Microvessel-Targeted Therapy and Imaging
   David Goertz, PhD

3:00 PM–3:20 PM  Micro-Doppler Imaging of Novel Cancer Therapy Effects
   Gregory J. Czarnota, PhD, MD

11
Ovarian Mass Evaluation

Moderator: Rochelle Andreotti, MD
Marina G - South Tower/Level 3

This course will describe the latest information regarding evaluation of adnexal masses with sonography, including color Doppler, 3-dimensional, and contrast-enhanced sonography.

1:30 PM–2:00 PM  Scoring System and Trials  
Jodi P. Lerner, MD

2:00 PM–2:30 PM  Ovarian Torsion/Acute Pelvic Pain  
Rochelle Andreotti, MD

2:30 PM–3:00 PM  Three-Dimensional Color Doppler Sonography  
Ilan E. Timor-Tritsch, MD

3:00 PM–3:20 PM  Contrast Transvaginal Sonography  
Arthur C. Fleischer, MD

3:20 PM–3:30 PM  Questions and Answers

Ultrasound Applications in Rheumatology

Moderator: Ralf Thiele, MD
San Diego C - North Tower/Lobby Level

Rheumatologic applications of ultrasound will be discussed. These will include assessment of synovitis and tenosynovitis, joint effusions, enthesopathy in spondyloarthropathies, crystal-induced arthritis, and treatment response.

1:30 PM–2:00 PM  Ultrasound of the Knee: Indications in Rheumatology  
David A. Bong, MD

2:00 PM–2:30 PM  Ultrasound of Crystal Induced Arthritis  
Ralf Thiele, MD

2:30 PM–3:00 PM  Ultrasound of Spondyloarthropathies  
Gurjit S. Kaeley, MBBS, MRCP

3:00 PM–3:30 PM  Ultrasound of Rheumatoid Arthritis  
Eugene Kissin, MD
Ultrasound-Guided Procedures in the Emergency Department and Intensive Care Unit

Moderator: Daniel Theodoro, MD
Torrey 1/2 - North Tower/Lobby Level

This course is designed to discuss applications and benefits of ultrasound guidance in routine and uncommon invasive bedside procedures in the emergency department and intensive care unit.

1:30 PM–2:10 PM  Ultrasound-Guided Vascular Access
Daniel Theodoro, MD

2:10 PM–2:50 PM  Intensive Care Unit Ultrasound-Guided Procedures (Other Than Vascular Access)
Achikam Oren-Grinberg, MD

2:50 PM–3:30 PM  Emergency Ultrasound-Guided Procedures
Michael Blaivas, MD, RDMS

3:30 PM–4:30 PM  Community of Practice Meetings

Basic Science and Instrumentation | Columbia 1/2 - North Tower/Lobby Level
General and Abdominal Ultrasound | Marina D - South Tower/Level 3
Musculoskeletal Ultrasound | San Diego C - North Tower/Lobby Level
Neurosonology | Columbia 3 - North Tower/Lobby Level

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

AIUM Apple Giveaway Drawing! | iPod Shuffle

Winner will be posted at the AIUM Resource Center—Booth 100.
There’s still time to stop by and submit your entry for additional drawings to be held during the refreshment break and lunch on Saturday (one entry per person qualifies you for all drawings).
Five concurrent sessions, each including 5 presentations on the latest ultrasound research, are offered during this period. *indicates presenter.

**Clinical Sonography: Breast**

*Moderator: Abid Irshad, MD*

**Columbia 1/2 - North Tower/Lobby Level**

**4:30 PM–4:42 PM**

**696311** Reader Variability and Predictive Value of Breast Imaging Reporting and Data System Descriptors for Lesions in Breast Sonography

Brogoch, Laura*; Andre, Michael; Ledgerwood, Melissa; Ojeda-Fournier, Haydee; Olson, Linda; Galperin, Michael; O'Boyle, Mary; Comstock, Christopher; Aiken, Melanie

**4:42 PM–4:54 PM**

**682564** Sonographic Appearances of Adenoid Cystic Carcinoma of the Breast

Glazebrook, Katrina*; Reynolds, Carol; Smith, Robin; Boughey, Judy

**4:54 PM–5:06 PM**

**696348** Preclinical Experience With an Automated 3-Dimensional Whole-Breast Ultrasound Computed Tomography System

Aiken, Melanie*; Andre, Michael; Ledgerwood, Melissa; Brogoch, Laura; Callahan, Karleen; Wiskin, James; Parisky, Yuri

**5:06 PM–5:18 PM**

**697230** Clinical Experience Using Elasticity Imaging in the Evaluation of Breast Fibroadenomas

Destounis, Stamatia V*; Barr, Richard G.; Arieno, Andrea L.; Morgan, Renee C.

**5:18 PM–5:30 PM**

**732888** The Combined Procedure: Sonographically Guided Large-Core Vacuum-Assisted Sampling of Sonographically Occult Microcalcifications Using a Mammographically Placed Hook Wire for Guidance

McNamara, M. P*; Schieda, Jill J.; Dutta, Rachna
Clinical Sonography: Gynecologic 1
Moderators: Jodi P. Lerner, MD, and Ana Monteagudo, MD, RDMS
Marina 6 – South Tower/Level 3

4:30 PM – 4:42 PM
730377 Ovarian Reserve in Young Breast Cancer Patients: 3-Dimensional Ultrasound Versus Magnetic Resonance Imaging
Wang, Eileen*; Torigian, Drew A.; Schwartz, Nadav; Springer, Erin L.; Komrokian, Sara; Su, H. Irene

4:42 PM – 4:54 PM
732448 A Prospective Blinded Study of 600 Consecutive Patients With Polyps Seen on Transvaginal Ultrasound: How Accurate is Transvaginal Ultrasound Compared With Sonohysterography?
Hartman, Alex*; Hartman, Jason; Frei, Julia

4:54 PM – 5:06 PM
731177 Does the Type of Intrauterine Device Affect Conspicuity and Position Assessment on 2- and 3-Dimensional Imaging?
Moschos, Elysia*; Twickler, Diane M.

5:06 PM – 5:18 PM
732287 The Diagnostic Value of Endometrial Volume and Vascularity Measurement by Transvaginal 3-Dimensional Ultrasonography and Power Doppler Angiography in Patients With Postmenopausal Bleeding
Rossi, Alberto*; Vascotto, Lisa; Forzano, Leonardo; Fachechi, Giorgio; Anis, Omar; Alessia, Maurigh; Marchesoni, Diego

5:18 PM – 5:30 PM
724940 Three-Dimensional (3D) Ultrasound Versus 3D Saline Infusion Sonohysterography in the Diagnosis of Uterine Anomalies: A Prospective Blinded Study of 600 Consecutive Infertility Patients
Hartman, Alex*; Hartman, Michael
Clinical Sonography: Interventional and Intraoperative
Moderators: Vikram Dogra, MD, and Shweta Bhatt, MD
Torrey 1/2 - North Tower/Lobby Level

4:30 PM–4:42 PM
732653  Ultrasound-Guided Minimally Invasive Breast Procedures: Optimizing Technique and Correction of Targeting Error Using an Aeronautical Paradigm
McNamara, M. P.*; Jill, Schieda J.; Dutta, Rachna; Reiter, Michael

4:42 PM–4:54 PM
730981  Efficacy of Ultrasound-Guided Radio Frequency Ablation in the Treatment of 40 Renal Cell Carcinomas
Davis, Kellie*; Kielar, Ania Z.; Jafari, Katayoun; Papadatos, Demetrios

4:54 PM–5:06 PM
732327  Image Fusion Between Ultrasonography and Computed Tomography or Magnetic Resonance Imaging in Patients With Liver Lesions
Ewertsen, Caroline*; Henriksen, Birthe; Torp-Pedersen, Soeren; Nielsen, Michael B.

5:06 PM–5:18 PM
732887  Long-Axis Orientation of the Ultrasound Transducer Is More Accurate for the Identification and Determination of Vascular Access Needle Tip Location
Sierzenski, Paul R.*; Baty, Gillian; Polan, David; Nichols, Wendy L.; Kochert, Erik; Bollinger, Melissa; Reed, James

5:18 PM–5:30 PM
732589  Ultrasound Guidance Improves the Success of Central Venous Catheterization by Junior Residents
Evans, Leigh; Lynch, Catherine; Dodge, Kelly; Lin, Zhenqu; Moore, Christopher L.*
Clinical Sonography: Obstetric—General
Moderator: J. Oscar Barahona, BS, RDMS
Marina E/F - South Tower/Level 3

4:30 PM–4:42 PM
696651 Chorionic Villus Sampling, Yes? Amniocentesis, No? Positive First-Trimester Aneuploidy Screens and Patient Preference Cooley, Sarah; Smith, Nicole; Bukowski, Radek; Gerrol, Pamela; Wilkins-Haug, Louise; Robinson, Julian*

4:42 PM–4:54 PM
731520 Cidex Ortho-phthaldehyde Effectively Eradicates Bacteria After 5 Minutes Holland, Marium*; Mastrobattista, Joan M.

4:54 PM–5:06 PM
731515 Prenatal Assessment of the Fetal Thymus: Utility of 2- and 3-Dimensional Ultrasound in Healthy Fetuses Li, Ling*; Bahtiyar, Mert; Zou, Lin; Zhou, Qichang; Copel, Joshua A.

5:06 PM–5:18 PM
727209 Double Sac Sign of Early Intrauterine Pregnancy: Is This 20th Century Sign Reliable Using 21st Century Equipment? Doubilet, Peter M.*; Benson, Carol B.

5:18 PM–5:30 PM
705716 Ultrasound Evaluation of the Fetal Esophagus at 11–14 Weeks’ Gestation Jeong, Eun Yul*; Moon, Min Hoan; Park, Ju Hyun
Clinical Sonography: Obstetric—Uterus, Placenta, and Cervix

Moderators: Véronique Taché, MD, and Reena Malhotra, MD
San Diego B - North Tower/Lobby Level

4:30 PM–4:42 PM
732844 Abruptio Placentae: Is Placental Location a Predisposing Factor? Mirza, Fadi*; Long, Stephanie; Fahl, Kelly N.; Simpson, Lynn L.

4:42 PM–4:54 PM
727136 Reproducibility of Placental Volume and Vasculature Indices Obtained by 3-Dimensional Power Doppler Sonography Huster, Kristina*; Haas, Kimberly; Schoenborn, Jean; McVean, Dominique; Odibo, Anthony O.

4:54 PM–5:06 PM
732297 Placental Volume Measurements Early in Pregnancy Predict Adverse Perinatal Outcomes Coletta, Jaclyn*; Srinivas, Sindhu K.; Pessel, Cara; Timor-Tritsch, Ilan E.; Parry, Sam; Salafia, Carolyn; Schwartz, Nadav

5:06 PM–5:18 PM
724613 Ultrasound Elastography of the Placenta: Ex Vivo Study and Utility in Assessing Placentas In Vivo Dighe, Manjiri*; Fligner, Corinne

5:18 PM–5:30 PM
732522 Predictive Value of a Short Cervix for Preterm Delivery at Less Than 32 Weeks’ Gestation in Twin Pregnancy Taché, Véronique*; Gutierrez, Michelle; Lacoursiere, Yvette; Hull, Andrew; Schrimmer, David
4:30 PM–5:30 PM

**Just Images Sessions**

**Abdominal Doppler Ultrasound**
*Moderator: Jennifer McDowell, RVT, RDMS, RT*
San Diego C • North Tower/Lobby Level

*Faculty: Kathleen Hanlon-Lundberg, MD, M. Robert De Jong, RDCS, RDMS, RVT, and Salvatore LaRusso, MEd, RDMS, RT(R)*

This course will show interesting abdominal cases that use Doppler ultrasound.

**A Potpourri of Pediatric Ultrasound Cases**
*Moderator: Brian D. Coley, MD*
Columbia 3 • North Tower/Lobby Level

*Faculty: Carol Barnewolt, MD, Harris Cohen, MD, and Michael DiPietro, MD*

A variety of cases will be presented, both straightforward “bread-and butter” examples of pediatric pathology as well as more unusual, challenging cases. Examples from all organ systems will be discussed.

**Fetal Brain and Thorax**
*Moderators: Lorene Romine, MD, and Seerat Aziz, MD*
San Diego A • North Tower/Lobby Level

*Faculty: Seerat Aziz, MD, and Lorene Romine, MD*

This session will emphasize congenital anomalies of the fetal brain and central nervous system using both 2- and 3-dimensional ultrasound. The fetal chest will also be discussed.

**Fetal Cardiac Unknowns: Simple**
*Moderator: Lami Yeo, MD*
Marina D • South Tower/Level 3

*Faculty: Julia A. Drose, BA, RT, RDMS, RVT, RDCS, Liat Gindes, MD, Mark Sklansky, MD, and Lami Yeo, MD*

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

**Ultrasound in the Emergency Department and Intensive Care Unit**
*Moderator: Vicki Noble, MD*
Torrey 3 • North Tower/Lobby Level

*Faculty: Vicki Noble, MD, and Achi Ginberg, MD*

This session is designed to show examples of medical, surgical, and traumatic cardiac emergencies in the emergency department and intensive care unit.
7:00 PM–11:00 PM
Leadership Banquet
Sea View – South Tower/Lobby Level
(by invitation only)

Every ultrasound specialty.
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Keep up. Receive notifications when new discussions are posted in your selected groups.

Visit www.aiumcommunities.org, sign up with your e-mail address, create a password, create your profile, and you’re in—all in about a minute.

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Need help getting started?
Stop by the AIUM Resource Center in the Exhibit Hall (Booth 100) and we’ll show you how easy it is!
### Schedule at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>6:00 AM–5:00 PM</td>
<td>Registration Open</td>
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<tr>
<td>7:00 AM–8:00 AM</td>
<td><em>Journal of Ultrasound in Medicine</em> Editorial Board Meeting</td>
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<tr>
<td>7:00 AM–8:00 AM</td>
<td>Meet-the-Professor Sessions</td>
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<tr>
<td>8:00 AM–12:30 PM</td>
<td>Resident/Medical Student Course</td>
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<tr>
<td>8:15 AM–9:15 AM</td>
<td>Exhibit Advisory Council Meeting</td>
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<tr>
<td>8:15 AM–10:15 AM</td>
<td>Categorical Courses</td>
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<tr>
<td>9:30 AM–2:00 PM</td>
<td>Exhibit Hall Open</td>
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<tr>
<td>10:15 AM–11:15 AM</td>
<td>Community of Practice Meetings</td>
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<td>10:15 AM–11:15 AM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<td>11:15 AM–12:15 PM</td>
<td>Scientific Sessions</td>
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<tr>
<td>11:15 AM–12:15 PM</td>
<td>Just Images Sessions</td>
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<tr>
<td>12:30 PM–1:30 PM</td>
<td>Community of Practice Council Meeting</td>
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<td>12:30 PM–1:30 PM</td>
<td>Lunch in the Exhibit Hall</td>
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<tr>
<td>12:30 PM–1:30 PM</td>
<td>Scientific Poster Discussion</td>
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<tr>
<td>1:45 PM–3:15 PM</td>
<td>Categorical Courses</td>
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<td>2:30 PM–5:00 PM</td>
<td>Executive Committee Meeting</td>
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<tr>
<td>3:30 PM–5:00 PM</td>
<td>Scientific Sessions</td>
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<tr>
<td>3:30 PM–5:00 PM</td>
<td>Just Images Sessions</td>
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<tr>
<td>5:15 PM</td>
<td>AIUM Business Meeting</td>
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<tr>
<td>5:30 PM–8:00 PM</td>
<td>Board of Governors Meeting</td>
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</table>
All operators of ultrasound systems with an output display should review the information in this publication. The book consists of 3 parts: Bioeffects and Biophysics, Prudent Use, and Implementing ALARA (as low as reasonably achievable). With the information from this publication, users can better control the diagnostic ultrasound equipment and examination to ensure that needed diagnostic information is obtained with minimal risk to the patient. (2009; 64 pp) ISBN 1-932962-13-1

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Available at the AIUM Resource Center, Booth 100. Order online at www.aium.org, or call 800-638-5352 or 301-498-4100.
Meet-the-Professor Sessions

S1 Sonography of Developmental Dysplasia of the Infant Hip
Henrietta K. Rosenberg, MD
Columbia 3 - North Tower/Lobby Level
This session will discuss the diagnostic features of developmental hip dysplasia and monitoring of therapy as well as joint effusion and ultrasound-guided hip aspiration.

S2 Interventional Musculoskeletal Ultrasound: Tendon, Ligament Injections, and Joint Injections
Ralf Thiele, MD
Columbia 1/2 - North Tower/Lobby Level
This session will discuss interventional musculoskeletal ultrasound, including the tendon, ligament injections, and joint injections.

S3 Twins, Triplets (and More): Double, Triple (and More) Jeopardy
David Schrimmer, MD, and Gina James, RDMS
Torrey 1/2 - North Tower/Lobby Level
The objective of this session is to discuss how to determine amnionicity and chorionicity in multiple gestations, the sonographic features important to evaluate in twin transfusion syndrome (TTS), and treatment options for TTS and other complications of multiple gestations such as acardiac twins and conjoined twins.

S4 Correlation With Biochemical Markers in the Abdomen
J. Louis Hinshaw, MD
Anaheim - Marriott Pavilion/Lobby Level
This session is a review of various markers in obstetrics and the abdomen to help the sonographer and sonologist in their search for the proper pathology that the marker may indicate.

S5 Ultrasound Evaluation of Liver and Kidney Transplants
Ulrike Hamper, MD
Torrey 3 - North Tower/Lobby Level
This session covers the ultrasound criteria for diagnosing complications involving liver and kidney transplants.
8:00 AM–12:30 PM
Resident/Medical Student Course: Diagnostic Ultrasound — The Basics
Program Chair: Joan M. Mastrobattista, MD
Columbia 1/2 • North Tower/Lobby Level

This course will provide the basics of diagnostic ultrasound imaging. Equipment terminology and functionality will be discussed. Participants will learn about bio-effects and basic ultrasound physics, knobology and machine controls, abdominal imaging, emergency department ultrasound, obstetric and gynecologic ultrasound, thyroid and carotid imaging, and vascular imaging. On completion of this course, participants will be aware of the importance of ultrasound energy and the effects of improper machine settings and will learn tricks to optimize image quality.

8:15 AM–10:15 AM
Categorical Courses

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

Advances in Adult Neurosonology
Moderator: Charles Tegeler, MD
Torrey 1/2 • North Tower/Lobby Level

Following this course, participants will be able to discuss the role of transcranial Doppler (TCD) and transcranial color-coded duplex ultrasound in adult patients with asymptomatic and symptomatic carotid and vertebral artery disease, acute stroke, clinical implications of neurologic intensive care unit TCD monitoring of patients with elevated intracranial pressure, vasospasm, brain death, and traumatic brain injury.

8:15 AM–8:45 AM  Transcranial Doppler Sonography in Carotid Stenosis
Tatjana Rundek, MD, PhD

8:45 AM–9:15 AM  Embolus Detection With Transcranial Doppler Sonography
Zsolt Garami, MD

9:15 AM–9:45 AM  Use of Contrast Agents in Extracranial and Transcranial Sonography
Eva Bartels, MD, PhD

9:45 AM–10:15 AM  Transcranial Doppler Sonography in Traumatic Brain Injury
Charles Tegeler, MD
**Arterial Stent Interventions and Ultrasound Criteria for Evaluation**

*Moderator: John Blebea, MD*

San Diego C - North Tower/Lobby Level

This course will include discussions of the following: carotid ultrasound, renal artery stenosis, aortic aneurysm treatments, and lower extremity arterial evaluations.

- **8:15 AM–8:45 AM** Carotid Ultrasound: Criteria for Evaluation Following Stenting  
  *B. K. Lal, MD*
- **8:45 AM–9:15 AM** Criteria for Diagnosing Renal Artery Stenosis Following Stenting  
  *Tara Mastracci, MD*
- **9:15 AM–9:45 AM** Criteria for Evaluation Following Stenting  
  *Hisham Bassiouny, MD*
- **9:45 AM–10:15 AM** Ultrasound Criteria for Postoperative Evaluation of Aortic Endografts  
  *Phillip Bendick, PhD*

**Breast Ultrasound: Including Elastography**

*Moderator: Susan J. Ackerman, MD*

Columbia 3 - North Tower/Lobby Level

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

- **8:15 AM–8:45 AM** Breast Ultrasound and Elastography  
  *Stamatia V. Destounis, MD*
- **8:45 AM–9:15 AM** Breast Cancer Staging With Ultrasound  
  *Gary Whitman, MD*
- **9:15 AM–9:45 AM** Sonographic Evaluation of Axillary Lymph Nodes in Patients Undergoing Minimally Invasive Breast Biopsy  
  *A. Thomas Stavros, MD*
- **9:45 AM–10:00 AM** New Advances in Breast Ultrasound  
  *Mukund Joshi, MD*
- **10:00 AM–10:15 AM** Mammographic, Magnetic Resonance Imaging, and Ultrasound Correlation  
  *Susan J. Ackerman, MD*
Creating a Positive Work Environment

Moderators: Audrey Fleming, RDMS, RVS, and Carolyn Modlin, RT(R), RDMS, RVT
Torrey 3 - North Tower/Lobby Level

This course will provide talks covering employee satisfaction, patient satisfaction, healthy work environments, and employee retention.

8:15 AM–8:55 AM  The Power of Trust and Confidence in Ultrasound Labs
Kathleen M. Hanlon-Lundberg, MD

8:55 AM–9:35 AM  Customer Satisfaction: How to Deal With Unhappy Customers
George Berdejo, BA, RVT

9:35 AM–10:15 AM  Minute-to-Minute Happiness in the Work Place
James S. Pennington, RDMS

Hands-on Ultrasound-Guided Biopsy

Moderators: Vikram Dogra, MD, and Wui Chong, MD
Marriott Hall 5 - Marriott Pavilion/Lobby Level

This course will provide practical demonstrations of thyroid, breast, liver, and kidney biopsy. Before the hands-on workshop, a 20-minute lecture will cover preprocedure preparation, technique, and complications of biopsies in general.

Faculty: Susan J. Ackerman, MD, Nami Azar, MD, Shwata Bhatt, MD, Wui Chong, MD, Corinne Deurdulian, MD, Vikram Dogra, MD, Rick Feld, MD, Ulrike Hamper, MD, MBA, Mark E. Lockhart, MD, MPH, Dean Nakamoto, MD, Raj M. Paspulati, MD, and Deborah J. Rubens, MD

Live Scanning of the Fetal Heart: Technique Demonstration

Moderators: Wesley Lee, MD, and Lami Yeo, MD
Marina E/F - South Tower/Level 3

The objective of this course is to have an expert specialist perform live scanning of the fetal heart offstage with the audience watching a live video projection during a discussion of the protocol to be followed and the anatomic images obtained during the examination. Techniques, basic views, and fetal cardiac anatomy will be reviewed, including how to overcome imaging constraints and the important components of screening and fetal echo examinations.

8:15 AM–8:55 AM  Basic Fetal Cardiac Examination: The Obstetric Approach
Gregory R. DeVore, MD

8:55 AM–9:35 AM  Basic Fetal Cardiac Examination: The Sonographer Approach
Julia A. Drose, BA, RT, RDMS, RVT, RDCS

9:35 AM–10:15 AM  Basic Fetal Cardiac Examination: The Pediatric Cardiology Approach
Mark Sklansky, MD
Newer Transducer Technologies

Moderators: Anne L. Hall, PhD, and Thomas Szabo, PhD
San Diego A - North Tower/Lobby Level

This course is designed to educate and familiarize the audience with the latest developments in ultrasound transducer methods, construction, and materials.

8:15 AM–8:45 AM  Advances in High-Frequency Transducer Technology  
K. Kirk Shung, PhD

8:45 AM–9:15 AM  Piezoelectric Composite Micromachined Ultrasonic Transducer: A New Ultrasound Transducer Technology  
Xiaoning Jiang, PhD

9:15 AM–9:45 AM  Capacitive Micromachined Ultrasonic Transducers: A Platform for Medical Imaging, Therapy, and Sensing  
Omer Oralkan, PhD

Alan C. Tai, PhD

Things You Should Know but Are Afraid to Ask (Legal, Safety, and Coding)

Moderator: Jacques S. Abramowicz, MD
San Diego B - North Tower/Lobby Level

This course will discuss the legal ramifications of suspected ectopic pregnancies treated with methotrexate and found to be intrauterine pregnancies, the biosafety of ultrasound, and coding issues for obstetric ultrasound.

8:15 AM–8:55 AM  Ectopic Pregnancy: Clinical and Legal Implications  
James M. Shwayder, MD, JD

8:55 AM–9:35 AM  Safety Issues  
Thomas R. Nelson, PhD

9:35 AM–10:15 AM  Coding Issues  
Joshua A. Copel, MD
Ultrasound Evaluation of Dyspnea
Moderator: Anthony Dean, MD
Marina D – South Tower/Level 3

This course is designed to discuss a comprehensive point-of-care ultrasound approach to evaluation of the dyspneic patient, including cardiac, lung, vascular, and traumatic causes of dyspnea.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:15 AM–8:45 AM</td>
<td>Sonographic Evaluation of Cardiac Causes of Dyspnea</td>
<td>Paul R. Sierzenski, MD, RDMS</td>
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<tr>
<td>8:45 AM–9:15 AM</td>
<td>Sonographic Evaluation of Pulmonary Causes of Dyspnea</td>
<td>Vicki Noble, MD, RDMS</td>
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<tr>
<td>9:15 AM–9:45 AM</td>
<td>Other Causes of Dyspnea</td>
<td>David P. Bahner, MD, RDMS</td>
</tr>
<tr>
<td>9:45 AM–10:15 AM</td>
<td>Sonographic Evaluation of Pediatric Causes of Dyspnea</td>
<td>James W. Tsung, MD</td>
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</table>

10:15 AM–11:15 AM
Community of Practice Meetings
Cardiovascular Ultrasound | San Diego C – North Tower/Lobby Level
Fetal Echocardiography | Marina E/F – South Tower/Level 3
Pediatric Ultrasound | Columbia 3 – North Tower/Lobby Level
Therapeutic Ultrasound | San Diego A – North Tower/Lobby Level

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

AIUM Apple Giveaway Drawing! | $100 Apple Store Gift Card
Winner will be posted at the AIUM Resource Center—Booth 100.
There’s still time to stop by and submit your entry for an additional drawing to be held during lunch today (one entry per person qualifies you for all drawings).
11:15 AM–12:15 PM
Scientific Sessions

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

Basic Science: Instrumentation 2
Moderators: Elisa Konofagou, PhD, and Jeremy Dahl, PhD
San Diego C - North Tower/Lobby Level

11:15 AM–11:27 AM
731986    Quantitative Ultrasound Inverse Scattering and Tomographic Refraction-Corrected B-Scan
Wiskin, James*; Borup, David; Klock, John; Steven, Johnson; Berggren, Michael; Smith, Jessica; Callahan, Karleen

11:27 AM–11:39 AM
732580    Suitability of Tissue-Mimicking Materials for Testing Tissue Harmonic Imaging Performance
Deaner, M. E.*; Madsen, Ernest L.

11:39 AM–11:51 AM
732535    Radio Frequency Elastographic Tensor Engine’s New Opportunities
Scott, Guy W.

11:51 AM–12:03 PM
732323    Methods for Generating Crawling Waves With Radiation Force from Ultrasonic Beams
Hah, Zaegyoo*; Cho, Yong Thung; An, Liwei; Hazard, Christopher; Rubens, Deborah J.; Strang, John; Parker, Kevin

12:03 PM–12:15 PM
697560    A Flexible Implantable Sensor for Postoperative Monitoring of Blood Flow
Cannata, Jonathan*; Vilkomerson, David; Chilipka, Tom; Yang, Hao-Chung; Han, Sukgu; Rowe, Vincent; Weaver, Fred
Clinical Sonography: Genitourinary
Moderators: Monzer Abu-Yousef, MD, and Nira Beck-Razi, MD
San Diego A - North Tower/Lobby Level

11:15 AM–11:27 AM
730632 Acoustic Radiation Force Impulse Imaging of the Human Prostate In Vivo
Zhai, Liang*; Polascik, Thomas; Mouraviev, Vladimir; Madden, John; Nightingale, Kathryn

11:27 AM–11:39 AM
731669 Striated Appearance of the Testes: What Does It Mean?
Dhillon, Gurpreet*; Bhatt, Shweta; Sidhu, Ravinder; Dogra, Vikram

11:39 AM–11:51 AM
730552 Assessment of Registration Accuracy in 3-Dimensional Transrectal Ultrasound Images of Prostates
Karnik, Vaishali V.*; Ward, Aaron D.; Bax, Jeff; Cool, Derek W.; Gardi, Lori; Gyacskov, Igor; Romagnoli, Cesare; Fenster, Aaron

11:51 AM–12:03 PM
731270 Spectrum of High-Resolution Sonographic Features of Urinary Tuberculosis
Vijayaraghavan, S. Boopathy

12:03 PM–12:15 PM
725285 Ultrasonographic Evaluation of Urinary Bladder Tumors in Sokoto, Northwestern Nigeria
Maaji, Sadisu M.
Clinical Sonography: Gynecologic 2

Moderators: Rochelle Andreotti, MD, and Charlotte Henningsen, MS, RT(R), RDMS, RVT
Marina D - South Tower/Level 3

11:15 AM–11:27 AM

731132 Intrauterine Pregnancies and Intrauterine Devices: Findings on Sonography
Moschos, Elysia*; Twickler, Diane M.

11:27 AM–11:39 AM

731009 Increasing the Accuracy of Transvaginal Ultrasound to Diagnose Adenomyosis: Which Finding Is Best?
Verma, Usha; Croce, Clara; Gonzalez-Quintero, Victor; Verma, Nupur; Cruz-Pachano, Francisco E.*

11:39 AM–11:51 AM

729853 Sonohysterography Versus Transvaginal Ultrasonography: A Blinded Retrospective Case Series of 800 Consecutive Patients With Polyps Diagnosed on Sonohysterography—How Accurate Is Transvaginal Ultrasonography?
Hartman, Alex*; Hartman, Michael

11:51 AM–12:03 PM

714825 A Prospective Observational Comparative Single-Center Trial to Predict In Vitro Fertilization and Embryo Transfer Outcomes by Ovarian Doppler Ultrasound Measurements
Szyller, Alain H.*; Silverberg, Kaylen M.; Crumb, Robert S.; Vaughn, Thomas C.; Hansard, Lisa J.; Burger, Natalie Z.

12:03 PM–12:15 PM

732618 A New Emerging Indication in Gynecologic Ultrasound: Difficult Pelvic Examinations
Cruz-Pachano, Francisco E.*; Gonzalez-Quintero, Victor; Vazquez-Vera, Enrique; Verma, Usha
Clinical Sonography: Obstetric—Fetal Echocardiology

Moderators: Mark Sklansky, MD, and Deborah D’Agostini, RDMS
Marina E/F – South Tower/Level 3

11:15 AM–11:27 AM
732237  Increasing the Detection Rate of Fetal Cardiac Defects During Routine Obstetric Screening Using a Standardized Assessment in Real Time Technique
Scott, Ted E.*; Jones, Judy; Rosenberg, Herschel; Thompson, Andrea; Ghandehari, Hournaz; Rosta, Neil; Jozkow, Kim; Stromer, Malka; Moran, Gerald; Swan, Hans

11:27 AM–11:39 AM
732087  Acquired Mitral Arcade in Twin-Twin Transfusion Syndrome
Moon-Grady, Anita J.*; Losada, Elizabeth; Wu, Danny; Ursell, Phillip

11:39 AM–11:51 AM
732630  Prenatal Diagnostic Rates of Severe Aortic Stenosis Versus Hypoplastic Left Heart Syndrome
Moon-Grady, Anita J.*; Gonzalez, Monica; Gosnell, Kristen; Rand, Larry; Meadows, Jeffery; Tworetzky, Wayne

11:51 AM–12:03 PM
732232  Fetal Tetralogy of Fallot: Impact of Extracardiac Anomalies and Chromosomal Abnormalities on Perinatal Outcomes
Mirza, Fadi*; Tung, Stephanie; Bauer, Samuel; Simpson, Lynn L.; Glickstein, Julie

12:03 PM–12:15 PM
732454  Can a Complete Fetal Echocardiographic Examination Be Performed at 12–16 Weeks’ Gestation?
Shahanaavaz, Shabana*; Moon-Grady, Anita J.; Caughey, Aaron; Hornberger, Lisa
Clinical Sonography: Obstetric—Fetal Growth

Moderators: Thomas Kelly, MD, and Lisa Allen, BS, RDMS
San Diego B - North Tower/Lobby Level

11:15 AM–11:27 AM
702427 Normogram of the Cerebellar Vermis Using 3-Dimensional Ultrasound and Its Utility in Differential Diagnosis of Posterior Fossa Anomalies
Dighe, Manjiri*; Guttmann, Amy; Mitsumori, Lee; Dubinsky, Theodore

11:27 AM–11:39 AM
732260 Association Between Pregnancy Complications and Small for Gestational Age Birth Weight Defined by a Customized Fetal Growth Standard Versus a Population-Based Standard
Odibo, Anthony O.; Francis, Andre; Cahill, Alison; Macones, George; Gardosi, Jason

11:39 AM–11:51 AM
732695 Prospective Validation of Fetal Weight Estimation Using Fractional Limb Volume
Lee, Wesley*; Balasubramaniam, Mamtha; Riggs, Thomas; Deter, Russell L.; Yeo, Lami; Hassan, Sonia S.; Kusanovic, Juan P.; Gonçalves, Luis F.; Romero, Roberto

11:51 AM–12:03 PM
728541 Prenatal Second-Trimester Fetal Long Bone Measurements and the Prediction of Small for Gestational Age Fetuses at Term
Speer, Paul*; Simhan, Hyagriv; Hill, Lyndon

12:03 PM–12:15 PM
732388 Early Biometric Lag as a Predictor of Adverse Pregnancy Outcomes
Pessel, Cara*; Krieger, Abba M.; Coletta, Jaclyn; Timor-Tritsch, Ilan E.; Schwartz, Nadav
11:15 AM–12:15 PM

Just Images Sessions

Diagnostic Conundrums in the Breast
**Moderators:** Gary Whitman, MD, and Susan J. Ackerman, MD
**Torrey 3 • North Tower/Lobby Level**

**Faculty:** Susan J. Ackerman, MD, Stamatia V. Destounis, MD, and Gary Whitman, MD

This session will provide presentations of challenging breast cases in which ultrasound had a vital role in diagnosis.

Skeleton and Face
**Moderator:** Diane M. Twickler, MD, and Maryann Tarsa, MD
**Columbia 3 • North Tower/Lobby Level**

**Faculty:** Diane M. Twickler, MD, and Maryann Tarsa, MD

This session will emphasize congenital anomalies of the fetal skeleton using both 2- and 3-dimensional ultrasound.

Sports Medicine
**Moderator:** Jay Smith, MD
**Torrey 1/2 • North Tower/Lobby Level**

**Faculty:** Jonathan Halperin, MD, Jon Jacobson, MD, Levon Nazarian, MD, Carolyn Sofka, MD, and Steve Wisniewski, MD

Sports medicine applications are an important part of musculoskeletal ultrasound. This session will include physiatry and rehabilitation indications.

Technical Errors
**Moderator:** M. Robert De Jong, RDCS, RDMS, RVT
**Manchester 3 • North Tower/Lobby Level**

**Faculty:** James Pennington, RDMS, Jennifer McDowell, RVT, RDMS, RT, and Salvatore LaRusso, MEd, RDMS, RT(R)

This session will address various faux pas from our laboratories.

12:30 PM–1:30 PM

Lunch in the Exhibit Hall

**AIUM Apple Giveaway Drawing! | iPod Nano (with built-in video camera!)**

Winner will be posted at the AIUM Resource Center—Booth 100. It could be you!
12:30 PM–1:30 PM
Scientific Poster Discussion
Leucadia, Oceanside, Pacific, Point Loma, and Solana - South Tower/Level 1
See page 113 for list of posters.

1:45 PM–3:15 PM
Categorical Courses

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

Ankle and Foot Ultrasound
Moderator: David Fessell, MD
San Diego C - North Tower/Lobby Level

The course topics discussed will include sonographic anatomy and conditions including tendinosis, ligament injury, enthesopathy, plantar fasciitis, effusion, synovitis, and gout of this less frequently discussed joint area.

1:45 PM–2:05 PM  
Sonographic Anatomy of the Ankle and Foot  
Kenneth S. Lee, MD

2:05 PM–2:25 PM  
Sonographic Pathology of the Ankle and Foot  
David Fessell, MD

2:25 PM–2:45 PM  
Ultrasound of the Foot and Ankle: Indications in Rheumatology  
Ralf Thiele, MD

2:45 PM–3:05 PM  
Ultrasound of the Foot and Ankle: Indications in Sports Medicine  
Jay Smith, MD

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

Basic Fetal Heart Scanning Protocols for Screening
Moderator: Thomas R. Nelson, PhD
Marina E/F - South Tower/Level 3

The objective of this course is to review protocols for performance of a basic fetal cardiac screening examination, including what information is required, how to obtain it, pitfalls to avoid, and how to assess normal fetal cardiac anatomy.

1:45 PM–2:15 PM  
A Protocol-Driven Approach to the Basic Fetal Cardiac Examination: 4-Chamber View  
Wesley Lee, MD

2:15 PM–2:45 PM  
A Protocol-Driven Approach to the Basic Fetal Cardiac Examination: Outflow Tracts  
Mark Sklansky, MD

2:45 PM–3:15 PM  
A Protocol-Driven Approach to the Basic Fetal Cardiac Examination: Arches and the 3-Vessel View  
Liat Gindes, MD
Elastography

Moderators: Carolyn Modlin, RT(R), RDMS, RVT, and M. Robert De Jong, RDCS, RDMS, RVT
San Diego A - North Tower/Lobby Level

By the end of this course, participants should be able to discuss how elastography works and some current clinical applications.

1:45 PM–2:30 PM  Clinical Applications of Elastography
                  Margaret Szabunio, MD

2:30 PM–3:15 PM  Understanding How Elastography Works
                  Matthew Ernst, RDMS

Molecular Imaging

Moderators: Ronald H. Silverman, PhD, and Michael C. Kolios, PhD
Columbia 1/2 - North Tower/Lobby Level

Recent developments in microbubble technology have made molecular imaging with high-frequency ultrasound possible. It now joins other high-resolution methods in the study of molecular medicine. This course will review the state of the art technology and ongoing research.

1:45 PM–2:05 PM  Ultrasound Molecular Imaging: Optimizing Methods for a Clinical Protocol
                  Katherine Ferrara, PhD

2:05 PM–2:25 PM  Contrast Ultrasound Molecular Imaging of Cardiovascular Regenerative Therapies
                  Howard Leong-Poi, PhD

2:25 PM–2:45 PM  Contrast and Molecular Imaging With Micro-Ultrasound
                  F. Stuart Foster, PhD

2:45 PM–3:05 PM  Photoacoustic Tomography: In Vivo Functional and Molecular Imaging Beyond the Optical Diffusion Limit
                  Lihong Wang, PhD

3:05 PM–3:15 PM  Questions and Answers
Multimodality Evaluation of Emergency Patient Treatment: Ultrasound and Beyond
Moderator: Leslie Scoutt, MD
San Diego B - North Tower-Lobby Level

This course will discuss, compare, and contrast the utility of ultrasound alone and in combination with computed tomography, magnetic resonance imaging, and other advanced imaging in emergency patients.

1:45 PM–2:30 PM  Abdominal Pathologic Evaluation: Ultrasound and Its Complements
                 Joan C. Prowda, MD

2:30 PM–3:15 PM  Pelvic Pathologic Evaluation: Ultrasound and Its Complements
                 Leslie Scoutt, MD

The Fetal Brain: Still an Enigma
Moderator: Deborah Levine, MD
Marina D - South Tower-Level 3

This course will discuss the state of the art in diagnosis/prognosis of ventriculomegaly and posterior fossa abnormalities. The role of magnetic resonance imaging will be presented, but the emphasis will be on ultrasound.

1:45 PM–2:15 PM  Ventriculomegaly: Update
                 Deborah Levine, MD

2:15 PM–2:45 PM  Posterior Fossa: Update
                 Ruth B. Goldstein, MD

2:45 PM–3:15 PM  Three-Dimensional Ultrasound of the Brain
                 Ana Monteagudo, MD, RDMS
Therapeutic Ultrasound: 50+ Years of Progress
Moderator: J. Brian Fowlkes, PhD
Torrey 3 - North Tower/Lobby Level

The AIUM recently established a Therapeutic Ultrasound Community of Practice to emphasize the importance of this medical application of ultrasound and foster its growth within the multidisciplinary structure of the AIUM. Over more than 50 years, ultrasound therapies have been well established in a wide variety of medical applications, and there is currently a substantial number of investigations to expand its use. This course will provide an overview of the progress that has been made in disease treatment by ultrasound and will examine the current development of ultrasound-based therapies. The objectives of the course are to provide the historical perspective for the progress in therapeutic ultrasound, update participants on some of the current medical applications, and examine the potential for future developments in the field.

1:45 PM–2:00 PM  Therapeutic Ultrasound: From Theory to Clinical Applications
Elisa E. Konofagou, PhD

2:00 PM–2:15 PM  Focused Ultrasound Treatment of Uterine Fibroids
Shannon Laughlin, MD

2:15 PM–2:30 PM  Magnetic Resonance Imaging–Guided Focused Ultrasound
William Bradley, Jr, MD, PhD

2:30 PM–2:45 PM  Expanding the Impact of Therapeutic Ultrasound
Christy K. Holland, PhD

2:45 PM–3:15 PM  Panel Discussion

Ultrasound of Superficial Lumps and Bumps, Nodes, and Salivary Glands
Moderator: Wui Chong, MD
Torrey 1/2 - North Tower/Lobby Level

This course will discuss sonography of palpable superficial masses, including cutaneous and subcutaneous solid and cystic tumors, lymphadenopathy, foreign bodies, salivary glands, and hernias.

1:45 PM–2:15 PM  Ultrasound of Superficial Palpable Lumps
Levon Nazarian, MD

2:15 PM–2:45 PM  Sonography of Lymph Nodes
Wui Chong, MD, FRCR

2:45 PM–3:15 PM  Sonography of Hernias
A. Thomas Stavros, MD
Ultrasound of the Pediatric Pelvis: Disorders in Boys and Girls

Moderator: Sara M. O’Hara, MD
Columbia 3 – North Tower/Lobby Level

This course will discuss ultrasound of pelvic abnormalities and will include ovarian masses and torsion, congenital anomalies, and pelvic inflammatory disease. Scrotal disorders examined will include tumors, testicular torsion, varicocele, and hydrocele.

1:45 PM–2:10 PM  The Female Pelvis in Infancy and Childhood
Lynd Fordham, MD

2:10 PM–2:35 PM  The Female Pelvis in Adolescence
Sara M. O’Hara, MD

2:35 PM–3:00 PM  Pediatric Scrotal Disorders
Steven Kraus, MD

3:00 PM–3:15 PM  Questions and Answers

Introducing the AIUM’s NEW Career Center

Looking for that perfect fit? Introducing the new Career Center, an interactive online job board. The Career Center is your resource for making online employment connections in the health care industry.

Visit the AIUM Career Center at Booth 100 in the Exhibit Hall. Attendees may post open positions on-site at a discounted rate.

www.aium.org
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.

Basic Science: Bioeffects, Image Processing, and Analysis

Moderators: William D. O’Brien, Jr, PhD, and Narendra Sanghvi, MSEE
Marina D – South Tower/Level 3

3:30 PM–3:42 PM

732504 Spatially Sensitive Passive Cavitation Detection With Ultrasound Imaging Arrays During Focused Ultrasound Ablation
Salgaonkar, Vasant A.*; Holland, Christy K.; Mast, T. Douglas

3:42 PM–3:54 PM

729786 Experimental Comparison Between Microbubble Activity and Sonoporation Efficacy of Monolayer Chinese Hamster Ovary Cells
King, Daniel A.*; Sen-Gupta, Ellora; O’Brien, William D. Jr

3:54 PM–4:06 PM

727377 Two Competing Strategies for Intima-Media Thickness Measurement in Carotid Ultrasound: A Stroke Indicator
Molinari, Filippo; Zeng, Guang; Suri, Jasjit*

4:06 PM–4:18 PM

727119 Immune System Modulation With Low- and High-Intensity Focused Ultrasound Treatment of Prostate Cancer
Sanghvi, Narendra T.*; Chen, Wohsing; Carlson, Roy; Guha, Chandan; Zhang, Huagang

4:18 PM–4:30 PM

742425 In Vivo Hemostasis Detection at Human Femoral Arteriotomy by Acoustic Radiation Force Impulse Ultrasound
Behler, Russell H.; Scola, Mallory R.; Nichols, Timothy C.; Caughey, Melissa C.; Fisher, Melrose W.; Zhu, Hongtu; Gallippi, Caterina M.*

4:30 PM–4:42 PM

728844 Acoustoelastographic Mapping of the Stiffness Gradient Distribution in the Rotator Cuff for Pathology Identification
Frisch, Kayt*; Lee, Kenneth S.; Baer, Geoff; Kobayashi, Hirohito; Vanderby, Ray

4:42 PM–4:54 PM

742452 In Vivo Acoustic Radiation Force Impulse Imaging of the Mechanical Properties of Muscle in a Dog Model of Duchenne Muscular Dystrophy
Scola, Mallory R.; Kornegay, Joe N.; Gallippi, Caterina M.*
Clinical Sonography: Emergency 2
Moderator: Michael Blaivas, MD
Columbia 1/2 - North Tower/Lobby Level

3:30 PM–3:42 PM
732924  A Prospective Randomized Comparison of Conscious Sedation to an Ultrasound-Guided Interscalene Nerve Block for Shoulder Reduction in the Emergency Department
Blaivas, Michael

3:42 PM–3:54 PM
732794  Peer-Mentored Ultrasound Training Trial
Bailey, Jared*; Jeppesen, Kelly; Stehmeier, Ian; Kube, Erika; Bahner, David P.

3:54 PM–4:06 PM
732319  Pneumothorax Localization on Computed Tomography: A Retrospective Analysis to Develop a Streamlined Protocol for Ultrasound Screening
Mennicke, Maria*; Oliva, Isabel; Gulati, Kavita; Goldflam, Katja; Skali, Hicham; Ledbetter, Stephen M.; Platz, Elke

4:06 PM–4:18 PM
732691  Right-Sided Diaphragm Movement Is a Sensitive and Specific Marker of Tracheal Intubation in a Cadaver Model
Ferre, Robinson M.*; Lotterman, Seth; Pitotti, Chris; Pitotti, Rebecca; Peng, Jenn

4:18 PM–4:30 PM
731961  Comparative Extravasation Rates of 1.75- and 2.5-Inch Ultrasound-Guided Peripheral Vascular Catheters
Bauman, Michael J.; Nomura, Jason T.*; Schofer, Joel M.; Resurreccion, Debbie; Toulson, Karen; Reed, James F.; Sierzenski, Paul R.

4:30 PM–4:42 PM
732420  Ultrasound of the Inferior Vena Cava Can Be Used as a Measure of Volume Status in Pediatric Patients
Dickman, Eitan*; Ayvazyan, Sergey; Likourezos, Antonios; Wu, Stanley; Hannan, Hashibul; Fromm, Christian; Marshall, John

4:42 PM–4:54 PM
705460  Utility and Effectiveness of Ultrasound-Guided Emergency Transvenous Pacemaker Placement
Blaivas, Michael
Clinical Sonography: Obstetrics —New Techniques and Multiple Gestations
Moderators: David Schrimmer, MD, and Gina James, RDMS
Marina E/F - South Tower/Level 3

3:30 PM–3:42 PM
730833 Placental Vascular Indices Obtained by a Single Central Sonobiopsy Correlate Well With Those From Evaluation of the Entire Placenta Tuuli, Methodius G.*; Schoenborn, Jean; Odibo, Anthony O.

3:42 PM–3:54 PM
732531 Current Practices in Determining Amnionicity and Chorionicity in Multiple Gestation Wan, Jennifer J.*; Taché, Véronique; Quinn, Kristen; Schrimmer, David; Lacoursiere, Yvette; James, Gina; Pretorius, Dolores H.

3:54 PM–4:06 PM
732720 Learning Curve Analysis for Fractional Limb Volume Measurements Using the Cusum Technique Lee, Wesley*; Tsimis, Michael; Riggs, Thomas; Deter, Russell L.; Yeo, Lami; Gonçalves, Luis F.; Romero, Roberto

4:06 PM–4:18 PM
732282 Subjective Assessment of Amniotic Fluid Volume in Monochorionic Diamniotic Twins Results in Overestimation of Oligohydramnios Smith, Nicole A.*; Lyons, Jennifer; Robinson, Julian N.

4:18 PM–4:30 PM
732593 Image-Processing Techniques for Improved 3-Dimensional Ultrasound Imaging: A Comparative Study Forsberg, Flemming*; Berghella, Vincenzo; Merton, Daniel A.; Rychlak, Keith; Meiers, Joann; Goldberg, Barry B.

4:30 PM–4:42 PM
732629 Elastography in Fetal Growth Restriction: An Ex Vivo Placental Study Beiswenger, Timothy*; Ghate, Sujata; Zhai, Liang; Boyd, Brita; Nightingale, Kathryn

4:42 PM–4:54 PM
732509 Cervical Cerclage for a Short Cervix After Laser Photocoagulation in Twin-Twin Transfusion Syndrome Papanna, Ramesha*; Mann, Lovepreet; Johnson, Anthony; Moise, Kenneth J.
Practice of Sonography

Moderator: M. Robert De Jong RDCS, RDMS, RVT
Columbia 3 – North Tower/Lobby Level

3:30 PM–3:42 PM
732813 Low Female to Male Birth Gender Ratios Among Asians in California: The Possible Role of Keepsake Ultrasound
Lin, G. Sharat

3:42 PM–3:54 PM
731591 Ultrasound on Picture Archiving and Communications Systems: Are Radiologists Satisfied?
Emerson, Donald; Cohen, Harris L.; Parks, Frank; Wan, Jim Y.; Graves, Houston*

3:54 PM–4:06 PM
730592 Prospective Durability Testing of a Commercially Available Vascular Access Phantom
Schofer, Joel M.; Nomura, Jason T.*; Bauman, Michael J.; Sierzenski, Paul R.

4:06 PM–4:18 PM
732482 Ultrasound-Guided Vascular Access Training in Medical School
Adkins, Eric J*; Kube, Erika; Bahner, David P.

4:18 PM–4:30 PM
720359 The Best Way to Image Crohn Disease With Sonography: Volumetric and Movie Acquisition
Medellin, Alexandra K.*; Gupta, Chander; Valin, Chris; Wilson, Stephanie R.

4:30 PM–4:42 PM
732982 The Radiologic-Pathologic Conference: A Valuable Tool for Quality Assurance and Staff and Resident Education
Schieda, Jill*; McNamara, M. P.; Eckhauser, Christine; Dubrovka, Oravec; Janine, Milligan; Pham, Ramya M.

4:42 PM–4:54 PM
732168 Role of High-Resolution Ultrasound in Diagnosis of Brachial Plexus Injury
Srivastava, Pradeep K
3:30 PM–5:00 PM

Just Images Sessions

Cardiac Ultrasound in the Emergency Department and Intensive Care Unit
Moderators: Christopher L. Moore, MD, RDMS, RDCS, and Alexander Levitov, MD
San Diego C • North Tower/Lobby Level
Faculty: Christopher L. Moore, MD, RDMS, RDCS, Alexander Levitov, MD, James Tsung, MD, and Erika Kube, MD

This session will compare and contrast the utility of ultrasound and chest radiography for the diagnosis of common and infrequent findings in the emergency department and intensive care unit.

Comprehensive Fetal and Pediatric Neurosonology: Clinical Applications
Moderator: Mary B. McCarville, MD
Torrey 3 • North Tower/Lobby Level
Faculty: Mike A. DiPietro, MD, and Vesna Kriss, MD

This session will present ultrasound cases of fetal and pediatric cranial and spine abnormalities with audience participation.

Difficult Biopsies and Interventional Procedures
Moderator: Vikram Dogra, MD
San Diego A • North Tower/Lobby Level
Faculty: Dean Nakamoto, MD, and Wael Saad, MD

This session will discuss complications and pitfalls of the biopsy technique.

Fetal Cardiac Unknowns: Complex
Moderator: Julia A. Drose, BA, RT, RDMS, RVT, RDCS
San Diego B • North Tower/Lobby Level
Faculty: Julia A. Drose, BA, RT, RDMS, RVT, RDCS, Liat Gindes, MD, Mark Sklansky, MD, and Lami Yeo, MD

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

5:15 PM

AIUM Business Meeting
Torrey 1/2 • North Tower/Lobby Level

5:30 PM–8:00 PM

Board of Governors Meeting
Manchester • North Tower/Lobby Level
2011 AIUM Annual Convention and Preconvention Program

April 14–17, 2011
New York Marriott Marquis Hotel
New York, New York

Define the Future
Scientific Poster Sessions

Posters are available for viewing Thursday, March 25, 11:30 AM—5:00 PM, Friday, March 26, 8:30 AM—5:30 PM, and Saturday, March 27, 8:30 AM—2:00 PM.

Authors will be available to discuss their research presented on the following posters on Friday, March 26, 12:30 PM—1:30 PM, and Saturday, March 27, 12:30 PM—1:30 PM.

Scientific Posters will be located in the South Tower – Level 1 in the following rooms:

Leucadia
Oceanside
Pacific
Point Loma
Solana
Scientific Poster Sessions

Posters are available for viewing Thursday, March 25, 11:30 AM—5:00 PM, Friday, March 26, 8:30 AM—5:30 PM, and Saturday, March 27, 8:30 AM—2:00 PM.

Authors will be available to discuss their research presented on the following posters on Friday, March 26, 12:30 PM—1:30 PM, and Saturday, March 27, 12:30 PM—1:30 PM.

*indicates presenter.

Friday, March 26

688762  Four-Dimensional Ultrasonography for Therapeutic Radio Frequency Ablation for Hepatocellular Carcinoma: Including Contrast-Enhanced 4-Dimensional Ultrasonography
Hotta, Naoki

708087  Increasing Quantity and Quality of Emergency Department Focused Bedside Ultrasound in Pregnancy
Pontius, Elizabeth*; Phillips, Carolyn; Antonis, Michael

730381  Evaluation of the Retraction Pattern in the Characterization of Solid Breast Masses With 3-Dimensional Ultrasound
Wolf, Casandra P.*; Úbeda, Belén; Navarro, Beatriz; Tresserra, Francisco; Casas, Lilian; Fabregas, Rafael

730428  Role of 3-Dimensional Ultrasound in the Evaluation of Mesh Implants for Surgical Treatment of Stress Urinary Incontinence
Hereter, Lourdes; Pascual, Maria A.; Graupera, Betlem*; Ponquera, Rosa; Ruiz, Jorge; Rotili, Anna

730446  Three-Dimensional Ultrasound Evaluation of Rectovaginal Septal Endometriosis
Pascual, Maria A.; Graupera, Betlem*; Hereter, Lourdes; Barri, Pere; Rotili, Anna; Tresserra, Francisco; Rodríguez, Ignacio

730461  Three-Dimensional Ultrasound in Diagnosis of an Arcuate Uterus in Patients With Suspected Congenital Uterine Anomalies
Graupera, Betlem*; Pascual, Maria Angela; Hereter, Lourdes; Úbeda, Alicia; Pedrero, Cristina; Fernández-Cid, Maria
731199  Correlation of β-Human Chorionic Gonadotropin and Ultrasound Diagnosis of Ectopic Pregnancy in the Emergency Department
Bloch, Scott; Bloch, Amy*; Lyon, Matthew; Humphries, Frank; Stoeb, Jenny; Shiver, Stephen

731355  Prehospital Critical Care Providers’ Retention of Ultrasound Skills for Diagnosis of Pneumothoraces: A 9-Month Follow-up
Lyon, Matthew*; Walton, Perry; Bloch, Amy; Shiver, Stephen

731492  Ultrasonographic Findings of Intersection Syndrome: Case Review
Lee, Kwang-Jae*; Kil, Ho Yeong; Shin, Byung Cheul; Jung, Jong Pil; Ahn, Jaeki

732117  The Acute Scrotum: Critical Ultrasound Findings in Acute Scrotal Pain
Chandrasekhar, Chitra*; Jesse, M.K.

732178  Limited Transabdominal Ultrasound Versus Standard Handheld Doppler Ultrasound for Assessment of Fetal Cardiac Activity: A Comparison of Physician Satisfaction
Leib, Melissa; Treat, Robert; Phelan, Mary Beth*

732180  Society of Radiologists in Ultrasound Guidelines for Fine-Needle Aspiration of Thyroid Nodules: Can False-Negative Rates Be Reduced?
Ginat, Daniel; Voci, Susan*; Rubens, Deborah J.

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732280  Evaluation of Crawling Wave Estimator Bias on Elastic Contrast Quantification
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Exhibit Hall Floor Plan

Marriott Hall – Marriott Pavilion

Marriott Hall is located in the Marriott Pavilion adjacent to the North Tower
# 2010 Exhibitors by Booth Number

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Booth 104

51 Monroe St
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Rockville, MD 20850 USA
Phone: 800-541-9754
Fax: 301-738-0312
E-mail: morgan.kreutz@ardms.org
Website: http://www.ardms.org

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

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

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The California Department of Public Health, Genetic Disease Screening Program administers the California Prenatal Screening Program that screens over 300,000 pregnant women a year for birth defects such as neural tube defects, chromosome abnormalities, and Smith-Lemli-Opitz syndrome.
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Phone: 818-395-0611
E-mail: naomihg@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 is recognized as the world leader in providing training and accreditation in first-trimester screening.
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Fax: 800-581-7889
E-mail: accreditation@intersocietal.org
Website: http://www.intersocietal.org
Description: The ICAVL (www.icavl.org) provides a voluntary peer review accreditation process for facilities performing noninvasive vascular testing. The ICAEL (www.icael.org) provides voluntary peer review for facilities performing echocardiography. The standards and corresponding accreditation material will be displayed in the exhibit, or visit www.intersocietal.org for more information. Also stop by to learn more about our new online application process and our webcast series Accreditation on Demand.
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Philadelphia, PA 19106 USA  
Phone: 800-638-3030  
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Loma Linda University Medical Center  
Booth 514
24887 Taylor St, Suite 203  
Loma Linda, CA 92354 USA  
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Fax: 909-558-4058  
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Website: http://www.llu.edu/hrm
Loma Linda University Medical Center is located 60 Miles east of Los Angeles, California. This world-renowned institution is known for its cutting-edge technology and exceptional community services. We staff more than 13,000 employees. For employment information, go to careers.llu.edu

Medical Positioning, Inc  
Booth 415
1717 Washington  
Kansas City, MO 64108 USA  
Phone: 800-593-3246  
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.
Medison America, Inc
11075 Knott Ave, Suite C
Cypress, CA 90630 USA
Phone: 800-829-SONO
Fax: 714-889-3030
E-mail: info@medisonusa.com
Website: http://www.MedisonUSA.com
Medison’s innovations in digital imaging technology are making a difference in hospitals, clinics, and private practices around the globe. The company provides a comprehensive range of state-of-the-art ultrasound products such as portable devices and multispecialty real-time 3-dimensional (3D)/4D systems that meet the demands of health care professionals for greater functionality, reliability, and diagnostic accuracy. A dedicated provider of ultrasound solutions, Medison’s commitment to research and development is unmatched in the world. See it all at MedisonUSA.com.

Mohawk College
Fennell Avenue and West 5th
Hamilton, ON L8N 3T2, Canada
Phone: 905-575-1212, ext 3309
Fax: 905-575-2433
E-mail: ted.scott@mohawkcollege.ca
Website: https://www.mohawkcollege.ca/Explore/QualityResearch/marc.html
At Mohawk, the Applied Research Center for Fetal Cardiac Sonography represents a confluence of interests, including students, staff, faculty, and community partners. Mohawk maintains a focus on the prenatal detection of cardiac defects during routine obstetric screening. The center will provide learning materials and opportunities for self-evaluation related to a new imaging technique, the standardized assessment in real-time technique.

National Diagnostic Imaging Teleradiology
25700 Science Park, 160
Beachwood, OH 44122 USA
Phone: 800-950-5257
Fax: 800-775-9752
E-mail: spohlkamp@ndximaging.com
Website: http://www.ndximaging.com
National Diagnostic Imaging (NDI) is a subspecialty teleradiology practice dedicated to providing high-quality ultrasound interpretations nationwide in a secure virtual environment. NDI’s clients enjoy personalized service and an efficient work flow. NDI carefully recruits skilled, board-certified radiologists with vast experience in ultrasound. Additionally, NDI provides coverage for magnetic resonance imaging, computed tomography, x-ray, and nuclear medicine.
NTD Labs, a PerkinElmer Company
80 Ruland Rd, Suite 1
Melville, NY 11747 USA
Phone: 631-425-0800
Fax: 631-425-0811
E-mail: ntdlabs@perkinelmer.com
Website: http://www.ntdlabs.com
PerkinElmer is a global company focused on improving the health and safety of people and their environment. From earlier medical insights and more effective therapies to cleaner water and safer homes, PerkinElmer touches the lives of millions of people around the world every day. The world leader in newborn screening, PerkinElmer is an innovator in prenatal testing, preeclampsia research, and molecular cytogenetics. NTD Laboratories provides prenatal screening services, and ViaCord supports cord blood banking.

Parker Laboratories, Inc
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Website: http://www.parkerlabs.com
Parker Laboratories is the leading manufacturer of medical ultrasound and electromedical contact media, including gels, solid gels, and lotions. Some of the products include Aquasonic 100 ultrasound transmission gel, the world standard of medical ultrasound, and redesigned gel warmers. Parker’s newest product, Protex disinfectant spray, is a powerful 1-step disinfectant effective against a broad spectrum of pathogens, including methicillin-resistant Staphylococcus aureus, human immunodeficiency virus, and many others, useful in disinfecting ultrasound transducers, probes, mammography compressor plates, and other hard, nonporous, nonsurgical surfaces.

Philips Healthcare
3000 Minuteman Rd
Andover, MA 01810 USA
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Website: http://www.philips.com/healthcare
Philips is one of the world’s leading health care technology companies and is committed to understanding the technological and human needs of patients and caregivers and to delivering solutions that enable more confident diagnoses, more efficient delivery of care, and more positive user experiences. People focused. Health care simplified.
Philips Research
345 Scarborough Rd
Briarcliff Manor, NY 10510 USA
Phone: 914-945-6188
Fax: 914-945-6580
E-mail: ralf.seip@philips.com
Website: http://www.research.philips.com/TIPS
Philips Research has developed the Therapy Imaging Probe System (TIPS). TIPS is a non-invasive turnkey solution for all preclinical research needs using therapeutic ultrasound. Applications include noninvasive gene delivery/therapy, site-targeted drug delivery, ultrasound-mediated immunotherapy, and high-intensity focused ultrasound ablation research under ultrasound imaging guidance.

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Phone: 215-239-3490
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Website: http://www.elsevierhealth.com
Elsevier is a leading publisher of health science books and journals, incorporating a family of outstanding imprints. With titles available across a variety of media, including print, online, and CD-ROM, Elsevier is able to supply the information you need in the most convenient format.

Siemens Medical Solutions USA, Inc
51 Valley Stream Pkwy
Malvern, PA 19355 USA
Phone: 610-448-4500
Website: http://www.usa.siemens.com/ultrasound
Siemens Medical Solutions is one of the largest suppliers of medical technologies in the world, offering complete solutions comprising medical devices, advanced information technologies, and services. Siemens Medical Solutions is known for bringing together innovative medical technologies, health care information systems, management consulting, and support services to help customers achieve tangible, sustainable, clinical, and financial outcomes. Founded more than 125 years ago, Siemens Medical Solutions brings together innovative medical devices, information technology, and services to help customers streamline work flow.
Society for Maternal-Fetal Medicine (SMFM)  
Booth 615  
409 12th St SW  
Washington, DC 20024 USA  
Phone: 202-863-2435  
Fax: 202-554-1132  
Website: http://www.smfm.org  
The Society for Maternal-Fetal Medicine 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.

SonoScape Co, Ltd  
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9/F Yizhe Building, Yuquan Road  
518051 Shenzhen, China  
Phone: 86-755-2672-2890, ext 866  
Fax: 86-755-2672-2850  
E-mail: jackson@sonoscape.net  
Website: http://www.sonoscape.com  
SonoScape is a high-tech enterprise specializing in developing and manufacturing digital color Doppler ultrasound systems and ultrasound transducers. SonoScape has successfully developed and put into mass production 10 different models of digital color Doppler ultrasound systems and 50 types of various high-density ultrasound probes for applications including cardiac, general purpose, obstetric and gynecologic, and others. SonoScape has a state-of-the-art production line for building cutting-edge digital color Doppler ultrasound systems and high-performance high-density ultrasound probes. The annual output for color ultrasound systems is 2000 units and 10,000 probes. The full range of SonoScape ultrasound scanners are approved or pending approval by the US Food and Drug Administration, marked with the European Conformance seal, and certified by the State Food and Drug Administration of China. SonoScape has been participating in all of the major national and international medical exhibitions every year, such as the World Forum for Medicine in Dusseldorf, Germany, Radiological Society of North America in Chicago, Illinois, and European Congress of Radiology in Vienna, Austria. SonoScape’s Color Doppler ultrasound systems are being exported to more than 120 countries and regions, including Europe, the United States, the Middle East, South America, Asia, and Eastern Europe.
SonoSite, Inc
21919 30th Drive SE
Bothell, WA 98021 USA
Phone: 425-951-1200
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E-mail: admin@sonosite.com
Website: http://www.sonosite.com

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

Sonultra Corporation
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Encino, CA 91316 USA
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Website: http://www.sonultra.com

Sonultra streamlines your work flow while helping to manage your bottom line. For more than 20 years, Sonultra Corporation has equipped more than 2000 maternal-fetal medicine, obstetrics and gynecology (Ob/Gyn), and radiology specialists with productivity-enhancing Ob/Gyn reporting and Digital Imaging and Communications in Medicine (DICOM) image management tools. Sonultra offers scalable personal computer-based reporting and image management solutions that easily integrate with your existing picture archiving and communications, hyperspectral imaging, radiology information, and electronic medical records systems. Improve your productivity, quality assurance, billing, report distribution, paper management, and data mining.
Sound Ergonomics, LLC
6830 NE Bothell Way, C-236
Kenmore, WA 98029 USA
Phone: 425-489-3839
Fax: 425-489-9030
E-mail: ctcoffin@soundergonomics.com
Website: http://www.soundergonomics.com

Sound Ergonomics, LLC, founded by sonographers, provides consulting services and ergonomic products for the prevention of occupational musculoskeletal disorders in allied health personnel. Its consultants have more than 60 years of combined medical imaging experience and hold graduate certificates in occupational ergonomics. Although Sound Ergonomics’ specialty is injury prevention among allied health workers, it also provides consulting services to workers in a variety of computer-related fields. Services include educational programs, workshops, clinical site evaluations, and exam room and computer workstation setup consultation. Products include support cushions, cable support arm bands and wrist supports, monitor mounts, keyboard trays, and ergonomic exam tables and seating.

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E-mail: info@sti-ultrasound.com
Website: http://www.sti-ultrasound.com

Sound Technology, Inc (STI) is a global leader in the development and manufacture of specialized medical ultrasound probes for original equipment manufacturers (OEMS). Located in central Pennsylvania and a wholly owned subsidiary of Analogic Corporation, STI focuses on technology innovation and strategic partnerships with its global customers and suppliers to meet the growing demand for quality, affordable ultrasound probes. STI has more than 20 years of experience in the design and manufacture of custom, high-performance, high-quality probes for the demanding OEM market. STI’s quality management system, which includes industry-leading engineering and manufacturing processes, have been certified to meet the stringent requirements of ISO 13485 for medical devices. STI’s comprehensive product portfolio establishes performance benchmarks for a wide range of applications, including radiology, cardiology, obstetrics, gynecology, and surgery. To meet the demands of higher performance in diagnostic medical ultrasound, STI continuously expands and improves its product portfolio to meet the needs of new imaging modalities such as elastography, harmonic imaging, frequency and spatial compounding, as well as new and emerging market segments such as point of care, guidance, and therapeutic ultrasound. Contact STI to discuss your medical ultrasound transducer design requirements, and allow STI to “improve your image in the medical ultrasound market.”
SuperSonic Imagine, Inc  
8347 154th Ave NE  
Redmond, WA 98052 USA  
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Fax: 425-284-6623  
E-mail: ed.mclenny@supersonicimagine.com  
Website: http://www.supersonicimagine.com

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

Texas Children's Fetal Center  
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Houston, TX 77030 USA  
Phone: 877-FetalRx  
Fax: 832-825-2624  
E-mail: crnewton@texaschildrenshospital.org  
Website: http://www.texaschildrens.org/fetal

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

The Baby CD  
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Barrington, IL 60010 USA  
Phone: 847-852-1814  
Fax: 847-842-0635  
E-mail: sandi.kleemann@thebabycd.com  
Website: http://www.thebabycd.com

The Baby CD provides educational CDs customized to the individual practice to OBs who present them to the expecting mom on her first visit. We have worked with Nautilus Medical in developing new software, known as 'babyray,' which converts DICOM (diagnostic ultrasounds to flash files (non-diagnostic) for entertainment purposes. This new format removes diagnostic interpretation and offers the doctor peace of mind in passing along a video keepsake to the expecting mom, delivering a stronger fetal mother connection.
Toshiba America Medical Systems, Inc
2441 Michelle Dr
Tustin, CA 92780 USA
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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.

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

WinProbe Corporation
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WinProbe Corporation designs and manufacturers hand-carried diagnostic ultrasound scanners with advanced elastography features. Specializing in diagnosis of the breast, deep vein thrombosis, and other small parts initially.
World Federation for Ultrasound in Medicine and Biology (WFUMB)

Booth 617

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Laurel, MD 20707 USA
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Website: http://www.wfumb.org

The World Federation for Ultrasound in Medicine and Biology (WFUMB) provides a foundation for the international collaboration of issues related to diagnostic ultrasound. Established in the late 1960s, WFUMB’s principal focus is to provide resources for ultrasound education programs in developing and emerging countries. WFUMB comprises 6 federations; the American Institute of Ultrasound in Medicine (AIUM), Asian Federation of Societies for Ultrasound in Medicine and Biology (AFSUMB), Australasian Society for Ultrasound in Medicine (ASUM), European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB), Latin American Federation of Societies for Ultrasound in Medicine and Biology (FLAUS), and Mediterranean and African Society for Ultrasound (MASU). These groups represent more than 54,000 physicians, scientists, engineers, and sonographers worldwide.

Zonare Medical Systems, Inc

Booth 200

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Website: http://www.zonare.com

Founded in 1999, Zonare Medical Systems is a leading provider of premium ultrasound systems. Through Zone Sonography technology, Zonare’s unique patented approach to ultrasound imaging, the company’s sole focus is bringing customer-driven innovations and premium-performance ultrasound systems to hospitals and clinics around the world. The result is the z.one ultra convertible ultrasound system, bringing premium image quality and performance to all clinical settings, leading to advanced diagnostic capabilities, portability, and cost-effective operation and maintenance.
Product Listing

Computers
- **Computer Software**
  - AS Software, Inc
  - Gammex, Inc
  - Digisonics, Inc
  - Fetal Medicine Foundation USA
  - GE Healthcare

**Systems**
- Digisonics, Inc

Consultants/Service
- **Equipment Testing/Quality Control**
  - Fetal Medicine Foundation USA
  - Gammex, Inc

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

**Repair/Service**
- Gammex, Inc

Education
- **Accreditation**
  - American Institute of Ultrasound in Medicine (AIUM)
  - American Registry for Diagnostic Medical Sonography (ARDMS)
  - Fetal Medicine Foundation USA
  - Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL)

**Certification**
- American Registry for Diagnostic Medical Sonography (ARDMS)
  - Fetal Medicine Foundation USA
  - Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL)

Education Software
- Fetal Medicine Foundation USA
- Maternal-Fetal Medicine Foundation
- Saunders/Mosby-Elsevier

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

Publications
- American Institute of Ultrasound in Medicine (AIUM)
- Fetal Medicine Foundation USA
- Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL)/Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL)
- Lippincott Williams & Wilkins
- Saunders/Mosby-Elsevier

Training
- American Institute of Ultrasound in Medicine (AIUM)
- ATS Laboratories, Inc
- Fetal Medicine Foundation USA
- GE Healthcare
- GeneCare Medical Genetics Center
- Loma Linda University Medical Center
- Mohawk Applied Research Centre—Fetal Cardiac Sonography

Videotapes
- American Institute of Ultrasound in Medicine (AIUM)
- Saunders/Mosby-Elsevier
Original Equipment Manufacturer (OEM) Products/Supplies

OEM Doppler Instrumentation
- SonoScape Co, Ltd

OEM Probes
- SonoScape Co, Ltd

OEM Scanners
- SonoScape Co, Ltd

Research/Development
- Gammex, Inc
- SonoScape Co, Ltd

Mini Picture Archiving and Communications Systems
- AS Software, Inc
- Ultrasonix Medical Corporation

Phantoms
- ATS Laboratories, Inc
- Gammex, Inc

Workstations
- Philips Healthcare
- Toshiba America Medical Systems, Inc

Supplies

Amniocentesis Trays
- Cook Medical

Biopsy Equipment
- CIVCO Medical Solutions
- Cook Medical
- Sound Technology, Inc

Catheters
- Cook Medical

Disinfectants/Cleaners
- CIVCO Medical Solutions
- Parker Laboratories, Inc

Gel/Gel Warmers
- CIVCO Medical Solutions
- Parker Laboratories, Inc

Probes/Supplies
- CIVCO Medical Solutions
- Hitachi Medical Systems America, Inc
- Parker Laboratories, Inc
- Sound Technology, Inc

Sheaths
- CIVCO Medical Solutions

Tables
- Medical Positioning, Inc

Transducers
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Sound Technology, Inc
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

Ultrasound Systems

Abdominal
- Biosound Esaote, Inc
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Co, Ltd
- SonoSite, Inc
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

Bone Assessment
- Philips Healthcare
- SonoScape Co, Ltd

Color Flow Doppler
- Biosound Esaote, Inc
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Co, Ltd
- SonoSite, Inc
- SuperSonic Imagine, Inc
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

Continuous Wave/Pulsed Wave Doppler
- Biosound Esaote, Inc
- GE Healthcare
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Co, Ltd
- SonoSite, Inc
- SuperSonic Imagine, Inc
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc

Echocardiography
- Hitachi Medical Systems America, Inc
- Medison America, Inc
- Philips Healthcare
- Siemens Medical Solutions USA, Inc
- SonoScape Co, Ltd
- SonoSite, Inc
- Toshiba America Medical Systems, Inc
- Ultrasonix Medical Corporation
- Zonare Medical Systems, Inc
Harmonic Imaging
Biosound Esaote, Inc
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Hitachi Medical Systems America, Inc
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Siemens Medical Solutions USA, Inc
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SonoSite, Inc
SuperSonic Imagine, Inc
Toshiba America Medical Systems, Inc
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Small Parts
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GE Healthcare
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SuperSonic Imagine, Inc
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Intracavitary
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Hitachi Medical Systems America, Inc
Philips Healthcare
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Laparoscopic
Hitachi Medical Systems America, Inc
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Obstetric/Gynecologic
AS Software, Inc
Biosound Esaote, Inc
GE Healthcare
Hitachi Medical Systems America, Inc
Medison America, Inc
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Siemens Medical Solutions USA, Inc
SonoScape Co, Ltd
SonoSite, Inc
Toshiba America Medical Systems, Inc
Ultrasonix Medical Corporation
Zonare Medical Systems, Inc

Preowned
GE Healthcare
Siemens Medical Solutions USA, Inc
SonoScape Co, Ltd

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

Three-Dimensional
Biosound Esaote, Inc
GE Healthcare
Hitachi Medical Systems America, Inc
Medison America, Inc
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Veterinary
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Ultrasound-Guided Devices

Interventional
CIVCO Medical Solutions
GE Healthcare
Siemens Medical Solutions USA, Inc
SonoScape Co, Ltd
Toshiba America Medical Systems, Inc

Radio Frequency Ablation Devices
SonoScape Co, Ltd