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Please visit GE Healthcare at AIUM exhibit #209, to experience new and exciting ultrasound innovations designed to meet your needs. Extraordinary images. Specialized systems. Innovative solutions. Every GE Healthcare ultrasound system is designed with you, your specialty, and your patients in mind. You’re devoted to providing the best patient care. We’re committed to providing technologies to help you excel every day.

For more information please contact your GE sales representative and call (866) 281-7545.

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gehealthcare.com/ultrasound
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2015 Schedule at a Glance

**Friday, March 20, 2015**

3:00 PM–6:00 PM  AIUM Output Standards Subcommittee Meeting  
7:00 PM–9:00 PM  AIUM International Electrotechnical Commission Subcommittee Meeting

**Saturday, March 21, 2015**

6:30 AM–5:00 PM  Registration Open  
7:30 AM–5:00 PM  Preconvention Program  
8:00 AM–2:00 PM  AIUM Bioeffects Committee Meeting  
8:00 AM–8:30 AM  WFUMB Nominating Committee Meeting  
8:30 AM–1:30 PM  WFUMB Education Committee Meeting  
10:30 AM–12:00 PM  WFUMB *Ultrasound in Medicine and Biology* Associate Editors Meeting  
12:00 PM–1:30 PM  WFUMB *Ultrasound in Medicine and Biology* Editorial Board Luncheon  
1:00 PM–2:00 PM  AIUM Finance Committee Meeting  
1:30 PM–4:30 PM  WFUMB Executive Bureau Meeting  
2:00 PM–6:00 PM  AIUM Technical Standards Committee Meeting  
4:00 PM–5:30 PM  WFUMB Congress Committee Meeting  
5:00 PM–6:30 PM  AIUM Presidential Reception for New Members and Leadership (by invitation only)

**Sunday, March 22, 2015**

7:00 AM–4:00 PM  Convention Registration Open  
8:00 AM–9:30 AM  Special Interest Sessions  
9:30 AM–3:30 PM  WFUMB Current Administrative Council Meeting  
9:45 AM–11:30 AM  Opening/Awards Session/AIUM Business Meeting  
11:30 AM–1:00 PM  Grand Opening Luncheon in the Exhibit Hall  
11:30 AM–4:00 PM  Exhibit Hall Open  
1:00 PM–3:00 PM  Special Interest Sessions  
3:00 PM–3:30 PM  Refreshment Break in the Exhibit Hall  
3:30 PM–5:30 PM  Special Interest Sessions

**Monday, March 23, 2015**

6:30 AM–4:00 PM  Convention Registration Open  
7:00 AM–8:00 AM  Just Images and Comprehensive Refresher Sessions  
8:15 AM–10:15 AM  Special Interest Sessions  
9:30 AM–1:30 PM  Exhibit Hall Open  
10:15 AM–10:45 AM  Refreshment Break in the Exhibit Hall  
10:30 AM–12:30 PM  AIUM Council on Communities Meeting  
10:45 AM–12:00 PM  Film Panel Session  
12:00 PM–1:00 PM  Lunch in the Exhibit Hall  
12:30 PM–1:30 PM  AIUM Presidential Advisory Council Meeting  
1:00 PM–3:00 PM  Special Interest Sessions  
1:30 PM–3:30 PM  AIUM Clinical Standards Committee Meeting  
3:00 PM–3:45 PM  AIUM Community Meetings  
3:00 PM–4:00 PM  AIUM Community Meeting  
3:00 PM–4:30 PM  WFUMB Safety Committee Meeting  
3:00 PM–5:00 PM  WFUMB Archives Committee Meeting  
3:45 PM–5:00 PM  AIUM Community Meeting  
3:45 PM–5:30 PM  Film Panel Sessions  
4:00 PM–5:00 PM  AIUM Community Meeting  
5:30 PM–6:30 PM  AIUM Community Meetings  
5:45 PM–6:30 PM  WFUMB General Assembly Meeting  
7:00 PM–10:00 PM  Dinner and Karaoke (ticket required)
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<th>Time</th>
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<td>Registration Open</td>
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<td>7:00 AM–8:00 AM</td>
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<td>Just Images and Comprehensive Refresher Sessions</td>
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<td>10:30 AM–12:30 PM</td>
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<td>Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics</td>
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<td>WFUMB New Administrative Council Meeting</td>
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<td>AIUM Executive Committee Meeting</td>
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<td>3:00 PM–3:45 PM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<td>3:45 PM–5:30 PM</td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography</td>
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<td>7:00 PM–11:00 PM</td>
<td>AIUM Leadership Banquet (by invitation only)</td>
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www.aium.org
At the Johns Hopkins Center for Fetal Therapy, our highly specialized team has a proven track record of successfully treating rare and complex prenatal conditions, such as twin-to-twin transfusion syndrome, fetal hydrops, lower urinary tract obstruction, congenital diaphragmatic hernia, spina bifida and more. We provide comprehensive care for mother and baby each step of the way with a team of maternal, neonatal and pediatric specialists. A leader in the field of fetal therapy, we offer breakthrough treatments and innovative clinical trials.

DISCOVER WHAT’S POSSIBLE.

Call: 410-502-6561 or visit hopkinsmedicine.org/fetal-therapy
WFUMB/AIUM 2015

For 2015, the American Institute of Ultrasound in Medicine (AIUM) has joined with the World Federation for Ultrasound in Medicine and Biology (WFUMB) to host the ultrasound meeting of the decade.

The WFUMB/AIUM 2015 Planning Committee has worked closely with AIUM community leaders and with international ultrasound experts to ensure that the top speakers from across the globe will present the most up-to-date information for seasoned professionals in all disciplines, as well as those clinicians new to ultrasound.

WFUMB consists of 6 federations representing physicians, scientists, engineers, and sonographers in Europe, Asia, North America, Latin America, Africa, and Australia.

Working together, WFUMB and the AIUM have created a one-of-a-kind meeting at which you will have the opportunity to learn from renowned international speakers and network with colleagues from around the world.

Your Registration Includes

Learning
• Attendance at any of the 130+ educational sessions from 19 different interest tracks, with courses specifically designed for beginners through advanced.
• The opportunity to earn up to 30.75 CME credits in 4 days.
• The chance to view more than 200 e-posters describing cutting-edge research.
• The chance to match wits with your peers by testing your knowledge with Cases of the Day. Don’t forget to pick up your ribbon when you make the correct diagnosis.
• An electronic version of the 2015 Official Proceedings, which includes abstracts from more than 500 professionals who will be presenting courses, discussing their research, or who submitted e-poster presentations.
• Attendance at the Accreditation Tutorial to learn how easy and how important it is to have your practice accredited.

Exhibits
• More than 60 exhibitors from whom you can learn about the latest in ultrasound technology and services.
• Live scanning in the Exhibit Hall—one of the best ways to learn proper scanning techniques.

Food and Refreshments
• A delicious lunch in the Exhibit Hall all 4 days.
• Five refreshment breaks with beverages and mouth-watering snacks.

Networking
• Meeting with colleagues in your specialty by attending 1 or more of the many community and interest group meetings and the opportunity to help plan the 2016 convention.
• Mingling with ultrasound luminaries who present the Scientific Sessions.

Extra Conveniences
• A backpack tote bag—which you can use for years to come—to carry all the brochures you collect.
• Complimentary Wi-Fi in the Exhibit Hall.
General Information

Registration Hours
Atlantic Hall B/C • First Level
Saturday, March 21  6:30 AM–5:00 PM
Sunday, March 22  7:00 AM–4:00 PM
Monday, March 23  6:30 AM–4:00 PM
Tuesday, March 24  6:30 AM–4:00 PM
Wednesday, March 25  7:00 AM–3:30 PM

Exhibitor Registration Hours
Registration Area • Atlantic Hall B/C • First Level
Saturday, March 21  8:00 AM–5:00 PM
Sunday, March 22  8:00 AM–5:00 PM
Monday, March 23  9:00 AM–1:30 PM
Tuesday, March 24  9:00 AM–5:00 PM
Wednesday, March 25  9:00 AM–3:00 PM

Speaker Ready Room
Australia 3 • Lobby/Third Level
Saturday, March 21  6:00 AM–5:00 PM
Sunday, March 22  7:00 AM–5:30 PM
Monday, March 23  6:30 AM–5:30 PM
Tuesday, March 24  6:30 AM–5:30 PM
Wednesday, March 25  6:30 AM–3:30 PM

Exhibit Hall Hours
Atlantic Hall B/C • First Level
Sunday, March 22  11:30 AM–4:00 PM
Grand Opening Luncheon
Refreshment Break
3:00 PM–3:30 PM
Monday, March 23  10:15 AM–10:45 AM
Lunch
12:00 PM–1:00 PM
Tuesday, March 24  9:30 AM–10:45 AM
Lunch
12:00 PM–1:00 PM
Refreshment Break 3:00 PM–3:45 PM
Wednesday, March 25  10:15 AM–10:45 AM
Lunch
12:00 PM–1:00 PM

AIUM Resource Center Hours
Registration Area • Atlantic Hall B/C • First Level
Saturday, March 21  8:00 AM–4:30 PM
Sunday, March 22  8:00 AM–4:30 PM
Monday, March 23  8:00 AM–4:30 PM
Tuesday, March 24  8:00 AM–4:30 PM
Wednesday, March 25  8:00 AM–3:00 PM

AIUM Office Hours
Oceanic 5 • Lobby/Third Level
Saturday, March 21  7:30 AM–4:30 PM
Sunday, March 22  7:30 AM–4:30 PM
Monday, March 23  7:30 AM–4:30 PM
Tuesday, March 24  7:30 AM–4:30 PM
Wednesday, March 25  7:30 AM–3:00 PM

Hands-on Special Interest Sessions

Participate in sessions on venous ultrasound, obstetric ultrasound, upper extremity joints, elastography, how to do the biopsy, Doppler technique and how to scan, peripheral nerves of the upper extremity, carotid and transcranial Doppler ultrasound, and pediatric diagnostic and therapeutic ultrasound. The cost for these sessions is $50 each. Space is limited.

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<td>Venous Ultrasound: Emphasis on Reflux Testing and Calf Vein Imaging</td>
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<td>Sunday, March 22 1:00 PM–3:00 PM</td>
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<td>M1</td>
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<td>Monday, March 23 1:00 PM–3:00 PM</td>
<td>How to Do the Biopsy</td>
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<td>M3</td>
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<td>Peripheral Nerves of the Upper Extremity</td>
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<td>T2</td>
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<td>Carotid and Transcranial Doppler Ultrasound</td>
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<td>W1</td>
<td>Wednesday, March 25 8:15 AM–10:15 AM</td>
<td>Pediatric Diagnostic and Therapeutic Ultrasound</td>
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Convention Registration Rates
Convention registration rates cover attendance at sessions held Sunday, March 22, through Wednesday, March 25, 2015. (Three- and Four-Dimensional Volume Data Set Manipulation Sessions and Hands-on Special Interest Sessions have additional fees and are based on availability.)

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

Spouse and Guest Registration
You may register a spouse/guest for $220, which provides access to the Exhibit Hall and includes 4 lunches and 5 refreshment breaks.

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

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

Videotaping and Photography Policy
The AIUM does not allow any unauthorized videotaping or photography during the WFUMB/AIUM 2015 or Preconvention Program except by management and its designated agents. The AIUM reserves the right to photograph or videotape any exhibits or attendee for use in promotional materials or any other AIUM publication. The AIUM may videotape several educational courses for inclusion in the AIUM’s educational video program library.

What to Wear
Attire at this year’s convention is business casual. Please note that meeting rooms are air-conditioned, so prepare for all temperatures. Weather: average daily temperature in March is 78°F.

Official Language
English is the official language of the WFUMB/AIUM 2015 convention.

Smoking Policy
The Walt Disney World Swan and Dolphin Resort is a smoke-free environment.

Need Help?
If you have questions about the convention, look for the blue shirts. The AIUM staff will be wearing these shirts Saturday, March 21, through Wednesday, March 25.

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

Hotel Information
Walt Disney World Swan and Dolphin Resort
1500 Epcot Resort Blvd
Lake Buena Vista, FL 32830 USA

© Walt Disney World Swan and Dolphin
Although many organizations and associations use an outside travel agency to negotiate contracts, the AIUM negotiates its own contracts, and any discounts are paid directly to the AIUM. Income from discounts allows the AIUM to offset expenses and provide enhanced services to attendees.
See the E-CUBE 12R Ultrasound Research Platform!
Alpinion Medical Systems (Booth #336)

Accoustic Radiation Force Impulse (ARFI) Control

Arbitrary Transmission Waveform Generation

Research Platform with Clinical Scanning Capabilities

Realtime RF Data Access

Open Software-based Platform and Sequence Control

Clinical image quality in a premium ultrasound research platform

The E-Cube 12 (FDA 510K) platform combines high-quality imaging with a versatile research platform. With its innovative beamforming technology, this system allows researchers to manipulate its sequence programming with ease, reconstruct full RF data, and analyze data in depth.

Research areas include:

- Shearwave Elastography
- Ultrasound image processing algorithm analysis
- Agent bubble analysis
- Photoacoustics
- Strain Imaging
- Transducer research & development
- Low MI contrast agent imaging
- Ultrasound temperature monitoring
- 3D/4D image processing
Special Interest Tracks

Basic Science and Instrumentation

Sunday, March 22 8:00 AM–9:30 AM
Creative Beam-Forming Approaches

Sunday, March 22 1:00 PM–3:00 PM
Quantitative Ultrasound

Monday, March 23 8:15 AM–10:15 AM
Alternative Acoustic Source Imaging

Monday, March 23 3:45 PM–5:30 PM
Basic Science and Instrumentation: Bioeffects and Contrast Agents Scientific Session

Tuesday, March 24 8:15 AM–10:15 AM
Quantitative Imaging Biomarker Development

Tuesday, March 24 1:00 PM–3:00 PM
New Applications of Ultrasound in Emergency and Critical Care Medicine

Tuesday, March 24 3:45 PM–5:30 PM
Basic Science and Instrumentation Community Meeting

Wednesday, March 25 10:45 AM–12:00 PM
Basic Science and Instrumentation: Tissue Characterization Scientific Session

Wednesday, March 25 1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

Cardiovascular Ultrasound

Sunday, March 22 8:00 AM–9:30 AM
Venous Hands-on Session With Emphasis on Refux Testing and Calf Vein Imaging

Monday, March 23 7:00 AM–8:00 AM
Carotid and Upper Extremity Arterial Imaging: Challenges, Pitfalls, and Missed Diagnoses

Monday, March 23 8:15 AM–10:15 AM
Understanding Carotid Stenosis: Diagnosis, Treatment, and Follow-up

Monday, March 23 10:45 AM–12:00 PM
Peripheral Arterial Imaging: How Doppler Ultrasound and Noninvasive Testing Impact Patient Care

Monday, March 23 3:45 PM–5:30 PM
Just Images: Challenging Abdominal Vascular Cases, Including Transplants

Monday, March 23 5:30 PM–6:30 PM
Cardiovascular Ultrasound Community Meeting

Tuesday, March 24 1:00 PM–3:00 PM
Comprehensive Hemodialysis Grafts

Tuesday, March 24 3:45 PM–5:30 PM
Cardiovascular Ultrasound Scientific Session

Wednesday, March 25 8:15 AM–10:15 AM
Renal Artery and Mesenteric Doppler Ultrasound

Wednesday, March 25 1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

Contrast-Enhanced Ultrasound

Sunday, March 22 1:00 PM–3:00 PM
Contrast-Enhanced Ultrasound in Pediatrics

Monday, March 23 1:00 PM–3:00 PM
Contrast Enhanced Ultrasound in Remote and Under-Resourced Areas: Implementation Challenges and Potential Benefits

Tuesday, March 24 7:00 AM–8:00 AM
Clinical Applications of Contrast-Enhanced Ultrasound: Case-Based Approach

Tuesday, March 24 8:15 AM–10:15 AM
Clinical Applications of Ultrasound Contrast: Part 1

Tuesday, March 24 1:00 PM–3:00 PM
Clinical Applications of Ultrasound Contrast: Part 2

Tuesday, March 24 3:00 PM–3:45 PM
Contrast-Enhanced Ultrasound Community Meeting

Tuesday, March 24 3:45 PM–5:30 PM
Contrast-Enhanced Ultrasound: Part 1 Scientific Session

Wednesday, March 25 8:15 AM–10:15 AM
Basic Science and Preclinical Applications of Ultrasound Contrast

Wednesday, March 25 8:15 AM–10:15 AM
Contrast-Enhanced Ultrasound: Part 2 Scientific Session

Wednesday, March 25 1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

Elastography

Saturday, March 21 7:30 AM–5:00 PM
Elastography: State of the Art, 2015

Monday, March 23 8:15 AM–10:15 AM
Hands-on Elastography

Monday, March 23 3:45 PM–5:30 PM
Elastography: Just Cases (Liver, Thyroid, Musculoskeletal, and Gynecologic)

Monday, March 23 5:30 PM–6:30 PM
Elastography Interest Group Meeting

Tuesday, March 24 7:00 AM–8:00 AM
Elastography Research

Tuesday, March 24 3:45 PM–5:00 PM
Elastography Scientific Session

Wednesday, March 25 10:45 AM–12:00 PM
Elastography: Breast Images

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ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

Contrast-Enhanced Ultrasound

Sunday, March 22 1:00 PM–3:00 PM
Contrast-Enhanced Ultrasound in Pediatrics

Monday, March 23 1:00 PM–3:00 PM
Contrast Enhanced Ultrasound in Remote and Under-Resourced Areas: Implementation Challenges and Potential Benefits

Tuesday, March 24 7:00 AM–8:00 AM
Clinical Applications of Contrast-Enhanced Ultrasound: Case-Based Approach

Tuesday, March 24 8:15 AM–10:15 AM
Clinical Applications of Ultrasound Contrast: Part 1

Tuesday, March 24 1:00 PM–3:00 PM
Clinical Applications of Ultrasound Contrast: Part 2

Tuesday, March 24 3:00 PM–3:45 PM
Contrast-Enhanced Ultrasound Community Meeting

Tuesday, March 24 3:45 PM–5:30 PM
Contrast-Enhanced Ultrasound: Part 1 Scientific Session

Wednesday, March 25 8:15 AM–10:15 AM
Basic Science and Preclinical Applications of Ultrasound Contrast

Wednesday, March 25 8:15 AM–10:15 AM
Contrast-Enhanced Ultrasound: Part 2 Scientific Session

Wednesday, March 25 1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

Elastography

Saturday, March 21 7:30 AM–5:00 PM
Elastography: State of the Art, 2015

Monday, March 23 8:15 AM–10:15 AM
Hands-on Elastography

Monday, March 23 3:45 PM–5:30 PM
Elastography: Just Cases (Liver, Thyroid, Musculoskeletal, and Gynecologic)

Monday, March 23 5:30 PM–6:30 PM
Elastography Interest Group Meeting

Tuesday, March 24 7:00 AM–8:00 AM
Elastography Research

Tuesday, March 24 3:45 PM–5:00 PM
Elastography Scientific Session

Wednesday, March 25 10:45 AM–12:00 PM
Elastography: Breast Images

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ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

Contrast-Enhanced Ultrasound

Sunday, March 22 1:00 PM–3:00 PM
Contrast-Enhanced Ultrasound in Pediatrics

Monday, March 23 1:00 PM–3:00 PM
Contrast Enhanced Ultrasound in Remote and Under-Resourced Areas: Implementation Challenges and Potential Benefits

Tuesday, March 24 7:00 AM–8:00 AM
Clinical Applications of Contrast-Enhanced Ultrasound: Case-Based Approach

Tuesday, March 24 8:15 AM–10:15 AM
Clinical Applications of Ultrasound Contrast: Part 1

Tuesday, March 24 1:00 PM–3:00 PM
Clinical Applications of Ultrasound Contrast: Part 2

Tuesday, March 24 3:00 PM–3:45 PM
Contrast-Enhanced Ultrasound Community Meeting

Tuesday, March 24 3:45 PM–5:30 PM
Contrast-Enhanced Ultrasound: Part 1 Scientific Session

Wednesday, March 25 8:15 AM–10:15 AM
Basic Science and Preclinical Applications of Ultrasound Contrast

Wednesday, March 25 8:15 AM–10:15 AM
Contrast-Enhanced Ultrasound: Part 2 Scientific Session

Wednesday, March 25 1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

Elastography

Saturday, March 21 7:30 AM–5:00 PM
Elastography: State of the Art, 2015

Monday, March 23 8:15 AM–10:15 AM
Hands-on Elastography

Monday, March 23 3:45 PM–5:30 PM
Elastography: Just Cases (Liver, Thyroid, Musculoskeletal, and Gynecologic)

Monday, March 23 5:30 PM–6:30 PM
Elastography Interest Group Meeting

Tuesday, March 24 7:00 AM–8:00 AM
Elastography Research

Tuesday, March 24 3:45 PM–5:00 PM
Elastography Scientific Session

Wednesday, March 25 10:45 AM–12:00 PM
Elastography: Breast Images
### Special Interest Tracks

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td><strong>Wednesday, March 25</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?</td>
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<td><strong>Emergency and Critical Care Ultrasound</strong></td>
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<td><strong>Saturday, March 21</strong></td>
<td>1:00 PM–5:00 PM</td>
<td>Sonographic Guidance of Critical Procedures</td>
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<td><strong>Sunday, March 22</strong></td>
<td>8:00 AM–9:30 AM</td>
<td>Teaching and Assessing Point-of-Care Sonography</td>
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<td><strong>Monday, March 23</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>Point-of-Care Assessment of Acute Bowel Pathology</td>
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<td><strong>Monday, March 23</strong></td>
<td>3:00 PM–3:45 PM</td>
<td>Emergency and Critical Care Ultrasound Community Meeting</td>
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<td>Emergency and Critical Care Ultrasound Scientific Session</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>7:00 AM–8:00 AM</td>
<td>Ultrasound Evaluation of Acute Abdominal and Pelvic Pain</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>8:15 AM–10:15 AM</td>
<td>New Horizons in Critical Care: Part 1</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>New Horizons in Critical Care: Part 2</td>
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<td><strong>Wednesday, March 25</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>Ultrasound Evaluation of Vascular Emergencies</td>
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<td><strong>Friday, March 20</strong></td>
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<td><strong>Fetal Echocardiography</strong></td>
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<td><strong>Saturday, March 21</strong></td>
<td>1:00 PM–5:00 PM</td>
<td>Advanced Fetal Cardiac Examination</td>
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<td><strong>Sunday, March 22</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>Four-Dimensional Fetal Cardiac Examination</td>
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<td><strong>Sunday, March 22</strong></td>
<td>3:30 PM–5:30 PM</td>
<td>Assessment of the Fetus at Risk</td>
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<td><strong>Monday, March 23</strong></td>
<td>7:00 AM–8:00 AM</td>
<td>Guidelines for Examination of the Fetal Heart</td>
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<td><strong>Monday, March 23</strong></td>
<td>10:45 AM–12:00 PM</td>
<td>Wrong Diagnosis: Learning From Our Mistakes</td>
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<td><strong>Monday, March 23</strong></td>
<td>3:45 PM–5:00 PM</td>
<td>Fetal Echocardiography Community Meeting</td>
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<tr>
<td><strong>Tuesday, March 24</strong></td>
<td>7:00 AM–8:00 AM</td>
<td>Anatomic Lessons From Normal Fetal Cardiac Ultrasound (Basic)</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>8:15 AM–10:15 AM</td>
<td>grandson Fetal Echocardiographic Techniques</td>
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<td><strong>Tuesday, March 24</strong></td>
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<td><strong>General and Abdominal Ultrasound</strong></td>
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<td><strong>Tuesday, March 24</strong></td>
<td>10:45 AM–12:00 PM</td>
<td>Fetal Echocardiography Scientific Session</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>Fetal Arrhythmias (Basic and Advanced)</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>3:30 PM–5:30 PM</td>
<td>3D-4D Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>3:45 PM–5:30 PM</td>
<td>All You Need to Know About Dextro-Transposition of the Greater Arteries, Tetralogy of Fallot, and Atrioventricular Septal Defects (Basic)</td>
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<tr>
<td><strong>Wednesday, March 25</strong></td>
<td>1:00 PM–3:00 PM</td>
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<td><strong>Tuesday, March 25</strong></td>
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<td><strong>General and Abdominal Ultrasound</strong></td>
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<td><strong>Sunday, March 22</strong></td>
<td>8:00 AM–9:30 AM</td>
<td>Ultrasound of the Thyroid: Guidelines and Controversies in the Management of Incidental Thyroid Nodules</td>
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<td><strong>Sunday, March 22</strong></td>
<td>8:00 AM–9:30 AM</td>
<td>Genitourinary Ultrasound Update</td>
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<td><strong>Sunday, March 22</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>Ultrasound of the Gastrointestinal Tract and Retroperitoneum</td>
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<td><strong>Sunday, March 22</strong></td>
<td>3:30 PM–5:30 PM</td>
<td>General and Abdominal Ultrasound Community Meeting</td>
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<td><strong>Monday, March 23</strong></td>
<td>10:45 AM–12:00 PM</td>
<td>Liver and Hepatobiliary Ultrasound Scientific Session</td>
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<td><strong>Monday, March 23</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>Hands-on Workshop: Doppler Techniques and How to Scan—Part 1</td>
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<td><strong>Monday, March 23</strong></td>
<td>3:45 PM–5:30 PM</td>
<td>General Ultrasound: Abdomen and Small Parts Scientific Session</td>
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<td><strong>Martes, 24 de marzo</strong></td>
<td>8:15 AM–10:15 AM</td>
<td>Ultrasonido General (In Spanish)</td>
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<td><strong>Mardi, 24 Mars</strong></td>
<td>10:45 AM–12:00 PM</td>
<td>Quoi de Neuf en Echographie en 2015 (In French)</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>10:45 AM–12:00 PM</td>
<td>Breast Ultrasound Scientific Session</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>1:00 PM–3:00 PM</td>
<td>Advanced Liver and Renal Doppler Ultrasound: Part 2</td>
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<td><strong>Tuesday, March 24</strong></td>
<td>3:45 PM–5:30 PM</td>
<td>Best Teaching Cases I Have Seen</td>
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<td><strong>Wednesday, March 25</strong></td>
<td>8:15 AM–10:15 AM</td>
<td>Ultrasound of the Breast: Screening, BI-RADS, and Challenging Cases</td>
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</tbody>
</table>

- **Hands-on Special Interest Sessions** (Limited seating. Preregistration required. Additional fee.)
- **Vidiotaped Sessions**
### Gynecologic Ultrasound

- **Saturday, March 21**  
  1:00 PM–5:00 PM  
  Early Pregnancy Complications

- **Sunday, March 22**  
  8:00 AM–9:30 AM  
  Adnexal Masses

- **Monday, March 23**  
  10:45 AM–12:00 PM  
  Gynecologic Ultrasound Scientific Session

- **Tuesday, March 24**  
  8:15 AM–10:15 AM  
  Endometriosis: Refining Our Approach

- **Wednesday, March 25**  
  10:45 AM–12:00 PM  
  ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

### Interventional and Intraoperative Ultrasound

- **Monday, March 23**  
  7:00 AM–8:00 AM  
  Just Images—Too Cool! Interesting Cases in Interventional Ultrasound: Novel and Practical Approaches to Procedures

- **Tuesday, March 24**  
  8:15 AM–10:15 AM  
  Know When to Hold 'Em: How to Avoid Complications During Interventional Procedures and How to Manage When You Get Them

### Musculoskeletal Ultrasound

- **Saturday, March 21**  
  7:30 AM–5:00 PM  
  Comprehensive Review of Musculoskeletal Ultrasound

- **Sunday, March 22**  
  3:30 PM–5:30 PM  
  Hands-on Scanning: Upper Extremity Joints (Shoulder, Elbow, and Wrist)  
  SOLD OUT

- **Monday, March 23**  
  8:15 AM–10:15 AM  
  Cutting-edge Musculoskeletal Ultrasound: Peripheral Nerves of the Upper Extremity

- **Tuesday, March 24**  
  8:15 AM–10:15 AM  
  Sonographic Evaluation of the Brachial Plexus and Related Problems: Making Sense of the Brachial Plexus

- **Wednesday, March 25**  
  10:45 AM–12:00 PM  
  New Ultrasound Applications in Soft Tissue Lesions: From Skin to Muscle
Special Interest Tracks

**Musculoskeletal Ultrasound Scientifi c Session**
- Tuesday, March 24 3:45 PM–5:30 PM
- Wednesday, March 25 7:00 AM–8:00 AM

**Musculoskeletal Ultrasound Community Meeting**
- Tuesday, March 24

**Rheumatologic Applications of Ultrasound: Rheumatoid Arthritis From A to Z**
- Wednesday, March 25 1:00 PM–3:00 PM

**ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?**
- Tuesday, March 24 10:45 AM–12:00 PM

**Obstetric Ultrasound**
- Saturday, March 21 7:30 AM–5:00 PM
- Sunday, March 22 8:00 AM–9:30 AM
- Monday, March 23 7:00 AM–8:00 AM
- Monday, March 23 8:15 AM–10:15 AM
- Monday, March 23 1:00 PM–3:00 PM

**Pediatric Ultrasound**
- Sunday, March 22 1:00 PM–3:00 PM
- Monday, March 23 7:00 AM–8:00 AM

**Neurosonology**
- Monday, March 23 7:00 AM–8:00 AM
- Monday, March 23 1:00 PM–3:00 PM
- Monday, March 23 3:00 PM–4:00 PM
- Tuesday, March 24 10:45 AM–12:00 PM
- Wednesday, March 25 1:00 PM–3:00 PM

**Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics**
- Tuesday, March 24 3:45 PM–5:30 PM
- Wednesday, March 25 1:00 PM–3:00 PM

**Invasive Fetal Therapy: Current State of the Art**
- Wednesday, March 25 7:00 AM–8:00 AM

**Noninvasive Prenatal Testing: What It Can and Cannot Do**
- Wednesday, March 25 8:15 AM–10:15 AM

**Obstetric Film Panel: Interesting Prenatal Cases With Neonatal Follow-up**
- Wednesday, March 25 1:00 PM–3:00 PM

**Fetal Ultrasound and Magnetic Resonance Imaging: Collision Course or Superhighway?**
- Wednesday, March 25 1:00 PM–3:00 PM

**Hands-on Special Interest Sessions**
- Monday, March 23 3:45 PM–5:30 PM
- Tuesday, March 24 10:45 AM–12:00 PM
- Tuesday, March 24 10:30 AM–12:30 PM

**Videotaped Sessions**
- Monday, March 23 5:30 PM–6:30 PM
- Wednesday, March 25 10:45 AM–12:00 PM

**3-4D Volume Data Manipulation Sessions**
- Tuesday, March 24 3:45 PM–5:30 PM
- Wednesday, March 25 3:45 PM–5:30 PM

**Videos**
- Wednesday, March 25 1:00 PM–3:00 PM

**Hands-on Carotid and Transcranial Doppler Ultrasound Technique**
- Tuesday, March 24 1:00 PM–3:00 PM

**Transcranial and Duplex Doppler Interpretation and Operating Room Applications**
- Wednesday, March 25 1:00 PM–3:00 PM

**ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?**
- Tuesday, March 24 1:00 PM–3:00 PM
- Wednesday, March 25 1:00 PM–3:00 PM
Tuesday, March 24
7:00 AM–8:00 AM
Topics in Pediatric Gastrointestinal Sonography

Tuesday, March 24
10:45 AM–12:00 PM
Pediatric Ultrasound Scientific Session

Wednesday, March 25
7:00 AM–8:00 AM
Problem-Oriented Symptom-Based Diagnostics in Pediatrics: The Role of Ultrasound

Wednesday, March 25
8:15 AM–10:15 AM
Hands-on Ultrasound in Pediatric Diagnosis and Therapy

Wednesday, March 25
10:45 AM–12:00 PM
Ultrasound in the Critically Ill Child

Wednesday, March 25
1:00 PM–3:00 PM
Musculoskeletal Ultrasound: Transition From Adult to Pediatrics

Wednesday, March 25
1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

### Ultrasound Global Health

**Sunday, March 22**
1:00 PM–3:00 PM
Ultrasound in Global Health in Interest Group Meeting

**Monday, March 23**
8:15 AM–10:15 AM
WFUMB Ultrasound: Crucial to Improve Global Health: Part 1

**Monday, March 23**
10:45 AM–12:00 PM
WFUMB Ultrasound: Crucial to Improve Global Health: Part 2

**Tuesday, March 24**
8:15 AM–10:15 AM
Ultrasound in Global Health Lecture Series: Part 1

**Tuesday, March 24**
1:00 PM–3:00 PM
Ultrasound in Global Health Lecture Series: Part 2

**Wednesday, March 25**
1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

### Ultrasound in Medical Education

**Monday, March 23**
10:45 AM–12:00 PM
Medical Education Scientific Session

**Tuesday, March 24**
8:15 AM–10:15 AM
Ultrasound in Medical Education Interest Group Meeting

**Tuesday, March 24**
10:45 AM–12:00 PM
Ultrasound in Undergraduate Medical Education: The Path Forward in Health Care. What Is the Role of Ultrasound in Undergraduate Medical Education?

**Wednesday, March 25**
8:15 AM–10:15 AM
Ultrasound in Undergraduate Medical Education: The Next Frontier

**Wednesday, March 25**
1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

### Ultrasound: Professional Development

**Sunday, March 22**
1:00 PM–3:00 PM
The Research Is Done: Now, How Do I Write and Submit the Manuscript?

**Monday, March 23**
10:45 AM–12:00 PM
New investigator Award Presentations Session 1

**Monday, March 23**
1:00 PM–3:00 PM
Accreditation Tutorial

**Monday, March 23**
5:30 PM–6:30 PM
Dermatologic Ultrasound Interest Group Meeting

**Tuesday, March 24**
10:45 AM–12:00 PM
New investigator Award Presentations Session 2

**Wednesday, March 25**
1:00 PM–3:00 PM
ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?
**Meetings**

**AIUM Community Meetings**

**Sunday, March 22**

- **1:00 PM–3:00 PM** Ultrasound in Global Health
- **3:30 PM–5:30 PM** General and Abdominal Ultrasound

**Monday, March 23**

- **3:00 PM–3:45 PM** Emergency and Critical Care Ultrasound
- **3:00 PM–4:00 PM** Neurosonology
- **3:45 PM–5:00 PM** Fetal Echocardiography
- **4:00 PM–5:00 PM** Pediatric Ultrasound

**Tuesday, March 24**

- **5:30 PM–6:30 PM** Cardiovascular Ultrasound
- **Dermatologic Ultrasound**
- **Elastography**
- **High-Frequency Clinical and Preclinical Imaging**
- **Obstetric Ultrasound**

**Dinner and Karaoke**

Join us for Karaoke Live with dinner! Monday, March 23, from 7:00 PM–10:00 PM. Dreams do come true when you are the star of the show. Sing karaoke with a live band . . . this is your chance to SHINE! (Additional fee to attend. Purchase tickets at the registration desk.)

* Dermatologic Ultrasound Interest Group Inaugural Meeting

All those interested in the new and challenging field of dermatologic ultrasound are invited to participate in the first meeting of the Dermatologic Ultrasound Interest Group. The meeting is scheduled for March 23 at 5:30 PM to 6:30 PM in the Southern Hemisphere IV meeting room. Bring your ideas, your experiences, your challenges, and your suggestions so that we might work on developing educational initiatives.

**WFUMB Committee Meetings**

**Saturday, March 21**

- **8:00 AM–8:30 AM** Nominating Committee
- **8:30 AM–9:30 AM** Education Committee
- **10:30 AM–12:00 PM** Ultrasound in Medicine and Biology Associate Editors
- **12:00 PM–1:30 PM** Ultrasound in Medicine and Biology Editorial Board Luncheon
- **1:30 PM–4:30 PM** Executive Bureau Meeting
- **4:00 PM–5:30 PM** Congress Committee

**Sunday, March 22**

- **9:30 AM–3:30 PM** Current Administrative Council
- **3:30 PM–5:30 PM** Cosponsorship Committee
- **7:00 PM–10:00 PM** WFUMB Dinner (by invitation only)

**Monday, March 23**

- **3:00 PM–4:30 PM** Safety Committee
- **3:00 PM–5:00 PM** Archives Committee
- **5:45 PM–6:30 PM** General Assembly

**Tuesday, March 24**

- **8:00 AM–9:30 AM** Finance Committee
- **1:00 PM–5:00 PM** New Administrative Council

**AIUM Committee Meetings**

**Friday, March 20**

- **3:00 PM–6:00 PM** Output Standards Subcommittee
- **7:00 PM–9:00 PM** International Electrotechnical Commission Subcommittee

**Saturday, March 21**

- **8:00 AM–2:00 PM** Bioeffects Committee
- **1:00 PM–2:00 PM** Finance Committee
- **2:00 PM–4:00 PM** Executive Committee
- **2:00 PM–6:00 PM** Technical Standards Committee
- **5:00 PM–6:30 PM** Presidential Reception for New Members and Leadership (by invitation only)

**Sunday, March 22**

- **3:30 PM–5:30 PM** Continuing Medical Education Committee
- **Membership Committee**

**Monday, March 23**

- **7:00 AM–8:00 AM** Journal of Ultrasound in Medicine Editorial Board
- **10:30 AM–12:30 PM** Council on Communities
- **12:30 PM–1:30 PM** Presidential Advisory Council
- **1:30 PM–3:30 PM** Clinical Standards Committee
- **3:45 PM–5:30 PM** Journal of Ultrasound in Medicine Subspecialty Editor

**Tuesday, March 24**

- **10:15 AM–12:15 PM** Ultrasound Practice Accreditation Council
- **12:15 PM–1:30 PM** Annual Convention Committee
- **2:00 PM–4:00 PM** Executive Committee
- **4:00 PM–5:00 PM** Executive Committee and Liaisons
- **7:00 PM–11:00 PM** AIUM Leadership Banquet (by invitation only)

**Wednesday, March 25**

- **7:30 AM–11:00 AM** Board of Governors

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**November 15, 2014 Convention Program**

**American Institute of Ultrasound in Medicine**

**www.aium.org**
Case-of-the-Day Challenges

Cochairs

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Case-of-the-Day Challenges are located in the Exhibit Hall.
Case-of-the-Day Challenges are supported in part by Parker Laboratories, Inc.

www.aium.org
Continuing Medical Education (CME)
Credit Information

Activity Description
The WFUMB/AIUM 2015 Convention and Preconvention Program is the most comprehensive, cutting-edge meeting for the entire medical ultrasound community. Our unique multidisciplinary program provides a collaborative environment for all specialties and disciplines, from beginner to advanced.

Accreditation Statement
The American Institute of Ultrasound in Medicine (AIUM) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide CME activities for physicians.

Designation Statement
The AIUM designates the 2015 Preconvention Program for a maximum of 7.0 AMA PRA Category 1 CME Credits™. The AIUM designates the WFUMB/AIUM 2015 Convention for a maximum of 30.75 AMA PRA Category 1 CME Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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

Target Audience
This activity is designed to meet the needs of ultrasound professionals from various medical disciplines and specialty areas who perform and interpret ultrasound examinations.

Convention Objective
On completion of this learning activity, participants should be able to:
• Demonstrate updated knowledge in basic science and instrumentation, cardiovascular ultrasound, contrast-enhanced ultrasound, emergency and critical care ultrasound, fetal echocardiography, general and abdominal ultrasound, gynecologic ultrasound, high-frequency clinical and preclinical imaging, interventional-intraoperative ultrasound, musculoskeletal ultrasound, neurosonology, obstetric ultrasound, pediatric ultrasound, sonography, therapeutic ultrasound, ultrasound in global health, ultrasound in medical education, and ultrasound: professional development.
• Discuss state-of-the-art ultrasound research;
• Practice updated ultrasound skills for more effective diagnosis; and
• Apply updated knowledge and clinical skills in improving patient care.

Activities Designed to Change
Competence and Performance.

Accreditation Council of Graduate Medical Education (ACGME) Competencies
These courses are designed to meet one or more of the following ACGME competencies:
• Interpersonal and communication skills; medical knowledge; patient care and procedural skills; practice-based learning and improvement; professionalism; and systems-based learning.

Disclosure Policy
As a provider accredited by ACCME, AIUM must ensure balance, independence, objectivity, and scientific rigor in its educational activities. Course director(s), planning committee, faculty, and all others who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Safeguards against commercial bias have been put in place.

Disclosures for this Activity
The faculty, committee members, community officers, AIUM leadership, and AIUM staff involved in planning this CME activity have completed a Disclosure of Financial Relationship form. Individuals with disclosures are listed in the Final Program starting on page 132. All completed disclosure forms are on file and are available for review at the AIUM office.

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.

Disclaimer
The information presented in this activity represents the opinions of the faculty and is not necessarily the official position of the WFUMB/AIUM.
**Educational Opportunities**

**Preconvention Program**
Attend courses providing in-depth coverage of ultrasound issues. Earn up to 7.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

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

**Comprehensive Refresher Sessions**
Comprehensive Refresher Sessions are venues for luminary speakers to present an overall review of a topic.

**Special Interest Sessions**
Choose from concurrent courses developed by community chairs and the Annual Convention Committee and presented by distinguished ultrasound professionals.

**Hands-on Special Interest Sessions**
Participate in sessions on venous ultrasound, obstetric ultrasound, upper extremity joints, elastography, how to do the biopsy, Doppler techniques, and how to scan peripheral nerves of the upper extremity, carotid and transcranial Doppler ultrasound, and pediatric diagnostic and therapeutic ultrasound. The cost for these sessions is $50 each. Space is limited.

**Film Panel Sessions**
A group of expert panelists will evaluate new and challenging cases in ultrasound.

**Three- and Four-Dimensional Volume Data Set Manipulation Sessions**
Participate in small-group sessions led by renowned ultrasound professionals. Space is limited. Register early as these sessions will sell out quickly. Three- and Four-Dimensional Volume Data Set Manipulation Sessions are not included in the convention registration fee. The cost for these sessions is $30 each.

**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
- General and Abdominal Ultrasound
- Genitourinary Ultrasound
- Gynecologic Ultrasound
- High-Frequency Clinical and Preclinical Imaging
- Interventional/Intraoperative Ultrasound

**E-Posters**
E-posters allow authors to present their research using a monitor and computer to effectively convey information that would not necessarily be possible with a traditional printed poster.

**Accreditation Tutorial**
Learn how easy it is to complete the ultrasound practice accreditation process and get answers to the most commonly asked questions regarding accreditation. Learn about AIUM standards for examination protocols, personnel, quality assurance, record keeping, safety, and physical facilities. This workshop incorporates a hands-on session that shows the individual how to fill out the online application, upload images, and apply for accreditation.

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

**AIUM Community and Interest Group Meetings (Formerly Communities of Practice)**
Meet with other ultrasound professionals who share your interests, plan future AIUM educational programs, and discuss the issues in your specialty.

As this year’s convention is an international meeting, the AIUM has worked diligently to ensure that attendees have the opportunity to learn from prominent ultrasound professionals from around the world. The Endowment for Education and Research (EER) logo by a course title denotes that the AIUM’s Board of Governors has approved funds from the EER to support travel costs for one of the presentation’s international speakers.
Disclosure of Commercial Support for WFUMB/AIUM 2015 Annual Convention

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2015 Planning Committee
Walt Disney World Swan and Dolphin Resort Floor Plans

First Level
Atlantic/Pacific Hall

Third Level
Lobby

Fifth Level
Hemispheres Ballrooms
How to Get Your CME Credits

Everything you need to register and print your AIUM Convention CME credits is accessible through “My Account” on the AIUM website.

1. • Go to www.aium.org and click on the “My Account” link on the upper right-hand side of the page.
   • If you have already set up an account, just log in with your registered e-mail address and password.
   • If you have not yet set up your account, click on “Activate your account here.” You will need your AIUM membership/ID number, which is located on your name badge. (If you registered onsite or do not know your AIUM membership/ID number, please e-mail cdelanko@aium.org.)

Once into your account:

2. • Go to the lower right-hand area titled “My CME Tracker.” Click on “All CMEs Earned at Conventions and/or Postgraduate Courses.”
   • Once there, follow the instructions to enter the number of CME credits you earned.

Notes

If you register onsite, please wait at least 24 hours before claiming your CME credits. This will give the AIUM systems time to synchronize.

Enter your credits through a desktop computer. Mobile devices are not supported.

You will be able to enter credits only for the days for which you are registered.

The maximum number of credits for each day is:
   Preconvention—Saturday, March 21, 2015—70 CMEs
   Convention—Sunday, March 22, 2015—6.5 CMEs
   Convention—Monday, March 23, 2015—8.0 CMEs
   Convention—Tuesday, March 24, 2015—10.0 CMEs
   Convention—Wednesday, March 25, 2015—6.25 CMEs
2015 AIUM Award Winners

William J. Fry Memorial Lecture Award

The William J. Fry Memorial Lecture Award was established by Joseph H. Holmes, MD, in 1969 and presented for the first time at the AIUM Annual Convention in Winnipeg that year. William J. Fry was a physicist with a strong interest in ultrasound in medicine, whose innovative research efforts advanced the field of medical ultrasound. One of Prof 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 was established in his honor. It recognizes a current or retired AIUM member who has significantly contributed in his or her particular field to the scientific progress of medical ultrasound.

Wesley Lee, MD

It is the honor of the AIUM to present this year’s William J. Fry Memorial Lecture Award to Wesley Lee, MD, an outstanding clinician, researcher, and educator who has been a staunch and dedicated AIUM member for more than 3 decades.

A native of Oregon, Dr. Lee earned his medical degree from Oregon Health Sciences University before moving to Texas to complete a residency at Parkland Memorial Hospital in Dallas and a maternal-fetal medicine fellowship at Baylor College of Medicine in Houston. He remained at Baylor for another 2 years before heading north to Michigan, where he ultimately served as fetal imaging director at William Beaumont Hospital with joint academic affiliations at Wayne State University and the University of Michigan. He has been a long-time scientific collaborator with the Perinatology Research Branch of the Eunice Kennedy Shriver National Institute of Child Health and Human Development. In 2011, Dr. Lee returned to Baylor College of Medicine in Houston as a professor of obstetrics and gynecology. He is the section chief for women’s and fetal imaging at Baylor and a codirector of the Texas Children’s Fetal Center. Dr. Lee has also been a deputy editor for the Journal of Ultrasound in Medicine for the past 5 years.

Dr. Lee has authored 148 peer-reviewed articles and 20 book chapters pertaining to maternal-fetal medicine, prenatal detection of congenital anomalies, 3-/4-dimensional fetal sonography, and fetal magnetic resonance imaging. He is also a coeditor of the textbook Sonography in Obstetrics & Gynecology: Principles and Practice. A past scientific advisor to the World Health Organization, he has chaired task forces on behalf of the AIUM, the American College of Obstetricians and Gynecologists (ACOG), and the Society for Maternal-Fetal Medicine with regard to prenatal sonography practice guidelines and has served as chair of the Clinical Standards Committee for both the AIUM and the International Society of Ultrasound in Obstetrics and Gynecology (ISUOG).

Dr. Lee is on the Editorial Board of Ultrasound in Obstetrics and Gynecology and serves as a peer reviewer for many journals, including some unexpected publications that demonstrate the depth and breadth of his expertise (eg, Journal of Zoo and Wildlife Medicine and Journal of Nutrition). A consummate instructor, he has earned multiple awards for his presentations, including the Alfred Kratochwil Award and an award for Best Oral Communication from ISUOG. Dr. Lee has received grant support from the National Institutes of Health Small Business Innovation Research program and the March of Dimes Foundation.

A fellow of both the AIUM and ACOG, Dr. Lee is that exceptional—and rare—individual who gives 100% to every professional assignment. For the AIUM alone, he has served on 10 committees, as well as on its Board of Governors. And in every role that he has held, he has strived to take the tasks and the goals to the next step (“What if we tried . . . ?” “What if we added . . . ?” “Have we considered . . . ?”). He carries that attitude and dedication through with regard to his research, his academic obligations, his clinical responsibilities, and his patient care—and the field of medical ultrasound is its beneficiary.
Joseph H. Holmes Basic Science Pioneer Award

The Pioneer Award, which honors an individual who has significantly contributed to the growth and development of medical ultrasound, was established in 1977. This special award was renamed in 1982 to honor Joseph H. Holmes, MD, who died that year. 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, which included tissue characterization and ultrasound’s diagnostic use in polycystic kidney disease and orthopedics, helped advance the field of ultrasound and encourage others to conduct new research. Serving the AIUM in many capacities, Dr Holmes was president from 1968 to 1970 and was editor of the AIUM’s official journal, which was then titled the Journal of Clinical Ultrasound, for nearly 10 years. Each year, the Joseph H. Holmes Pioneer Award honors 2 individuals: 1 in clinical science and the other in basic science.

Flemming Forsberg, PhD

It’s impossible to sum up in a few short paragraphs an individual with a 98-page curriculum vitae that is printed in a tiny font, but that detail alone provides an indication of the reasons behind why Flemming Forsberg, PhD, was chosen as the 2015 recipient of the Joseph H. Holmes Basic Science Pioneer Award.

Dr Forsberg developed his interest in ultrasound when the field was—if not in its infancy—only at the toddler stage. His project for his master’s degree focused on Doppler ultrasound, followed shortly by a PhD in medical engineering and physics. His career has included serving as a biomedical engineer in Finland, a research assistant in Denmark, and an ultrasound physicist and software engineer in England before he finally crossed the pond in 1992 to join the faculty of Thomas Jefferson University (TJU)—a place he has called home ever since. A tenured professor of radiology and director of ultrasound physics, Dr Forsberg has been the principal investigator on dozens of ground-breaking research projects, as well as principal investigator for 30+ industrial grants and coinvestigator for 100 other research endeavors for the National Institutes of Health (NIH), the Department of Defense (DoD), nonprofit organizations, and industry. Thus, it is not surprising that he has 145+ papers in peer-reviewed journals and more than 480 conference proceedings. In addition, he has served as a grant reviewer for the NIH, the DoD, the American Heart Association, the Radiological Society of North America, and the Swedish Research Council.

To be successful, scientists must certainly be serious minded, but in Dr Forsberg’s case, that doesn’t mean humorless. Indeed, his quick wit—expressed with just a hint of a Danish accent—and self-effacing manner might contribute to why he has been such a popular and effective mentor and adviser to more than 30 doctoral and master’s degree candidates at TJU and Drexel University, where he has been an adjunct professor since 2002. Dr Forsberg uses his “free” time to review for 18 different medical, science, and physics journals. A deputy editor for the Journal of Ultrasound in Medicine, he also serves on the editorial board of Ultrasound in Medicine and Biology. He is a member of multiple professional societies and a fellow of both the AIUM and the American Institute for Medical and Biological Engineering and has served on a wide variety of academic and societal committees.

It goes without saying—based on all his academic and research achievements—that Dr Forsberg has been the recipient of manifold commendations, ranging from awards and prizes for scientific presentations to his most recent honor: the 2014 Dean’s Award for Excellence in Faculty Mentoring at Jefferson Medical College.

Born in Copenhagen, Dr Forsberg was in his second year of school at the Technical University of Denmark when Dr Holmes died, so they would not have had the opportunity to meet. But, there is no doubt that Dr Holmes would hold Dr Forsberg in the highest esteem for what he has contributed to ultrasound research. Still only in mid-career, there will surely be many more accolades to come for this exceptional scientist and father of 2 children who are already following in his footsteps in ultrasound research.
Joseph H. Holmes Clinical Pioneer Award

The Pioneer Award, which honors an individual who has significantly contributed to the growth and development of medical ultrasound, was established in 1977. This special award was renamed in 1982 to honor Joseph H. Holmes, MD, who died that year. 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, which included tissue characterization and ultrasound’s diagnostic use in polycystic kidney disease and orthopedics, helped advance the field of ultrasound and encourage others to conduct new research. Serving the AIUM in many capacities, Dr Holmes was president from 1968 to 1970 and was editor of the AIUM’s official journal, which was then titled the Journal of Clinical Ultrasound, for nearly 10 years. Each year, the Joseph H. Holmes Pioneer Award honors 2 individuals: 1 in clinical science and the other in basic science.

Peter W. Callen, MD

Peter W. Callen, MD, joined the AIUM more than 3 decades ago, becoming a fellow in 1986, and his commitment to ultrasound has never waivered, which is one of the reasons he is this year’s recipient of the Joseph H. Homes Clinical Pioneer Award. A member of the Editorial Board of the Journal of Ultrasound in Medicine during the tenure of the publication’s first editor, Dr Callen has spent his entire professional career educating and inspiring young radiologists and obstetricians/gynecologists. Indeed, the names of many of the more than 100 fellows and residents whom he has mentored and supervised will be recognizable to most physicians and sonographers because they are the lecturers whose presentations attendees make sure to attend, the researchers whose work they most respect, and the clinicians whose opinions they value the most.

Currently emeritus professor of radiology, obstetrics, and gynecology at the University of California, San Francisco (UCSF)—where he has received both a Commendation for Excellence in Teaching and an Outstanding Alumni Award—Dr Callen earned his medical degree and completed a residency and fellowship at the same institution. UCSF was right to never let him go, as he has served that institution in a more than noteworthy manner, as a chair or member of more than 20 committees for the Department of Radiology and the School of Medicine and, more importantly, as an exceptional postgraduate educator.

Well known worldwide for his textbook, Ultrasonography in Obstetrics and Gynecology—now in its fifth edition—and presently working on the sixth edition, Dr Callen is also the author and editor of an interactive text and journal that reflect his interest in Web-based instruction; he created Ob-Gyn Ultrasound Online to teach both trainees and established practitioners in the field of obstetric and gynecologic ultrasound. He has published more than 200 peer-reviewed articles and 65 book chapters, with research concentrating on sonographic signs to detect abnormalities and avoid false-positive diagnosis of abnormalities in obstetric patients, and a particular focus on fetal dysmorphology and the detection of abnormalities involving the fetal neural axis, thorax, skeletal system, and genitourinary and gastrointestinal tracts, as well as abnormalities of the placenta and umbilical cord.

Dr Callen is a member of 6 professional imaging associations and has served on the editorial boards of 5 journals. He has been invited to give presentations across the country and has served as a visiting professor in locations throughout the United States, as well as in Japan, Puerto Rico, and Canada. At every stage in his career, Dr Callen has strived for—and achieved—excellence in research, clinical skills, and education. He has recognized the need for high-quality ultrasound instruction for residents and practicing physicians, and he has successfully set about to fulfill that need through lectures, research papers, Internet-based teaching, and mentoring. He is an inspiration to all those who follow.
Peter H. Arger, MD, Excellence in Medical Student Education Award

The Peter H. Arger, MD, Excellence in Medical Student Education Award was established in 2013, with its first presentation occurring at the 2014 AIUM Annual Convention in Las Vegas, Nevada. Dr Arger has contributed much to the AIUM and to the growth of diagnostic ultrasound, but his true passion has been ultrasound education. This annual presentation honors an individual whose outstanding contributions to the development of medical ultrasound education warrant special merit.

David Bahner, MD, RDMS

At quick glance, the boyish features might lead you to think David Bahner, MD, RDMS, only recently completed his residency. But don’t be fooled. Dr Bahner has accomplished more in the 2 decades since he completed medical school than other physicians will achieve in a lifetime, which is why the AIUM is proud to present him with the 2015 Peter H. Arger, MD, Excellence in Medical Student Education Award.

Only the second recipient of this award, Dr Bahner earned his MD degree from the University of Cincinnati College of Medicine before completing his residency in emergency medicine at the Ohio State University Medical Center. Born and bred in Ohio, he is a professor in the Department of Emergency Medicine, Ohio State University College of Medicine, but he has shared his expertise with those far from his Midwestern home, participating in medical missions in Asia and the Mideast, as well as completing a visiting professorship in China. In addition, he has given dozens of presentations in Italy, Spain, France, South Korea, Canada, China, and India on issues related to his 3 passions: ultrasound, emergency medicine, and medical education. Coupled with the more than 200 presentations he has given both nationally and locally in Ohio, it is obvious that Dr Bahner is an exceptional speaker and educator.

What shines through in his long list of lectures, posters, and abstract presentations is his commitment to superb education for medical students, residents, and physicians in practice. He has been actively engaged in curriculum development for 15 years and has invented a variety of protocols and techniques to ensure the highest quality patient care. Indeed, most of the many grants on which he has worked have focused on education—from protocols to telemedicine to Web-based information transfer to training curricula.

A prolific writer with a multitude of articles and book chapters to his credit, Dr Bahner is an associate editor of the Journal of Ultrasound in Medicine and serves on the editorial boards of 4 other journals. In addition to having served on more than 40 hospital committees and medical school boards, he is a member of a dozen professional societies for which he has served, and often chaired, education-related committees.

A past member of the AIUM Board of Governors, in 2011 he was asked to chair a new initiative: the Ultrasound in Medical Education Interest Group. He didn’t just acquiesce to this request; he threw himself heart and soul into the endeavor. Under his leadership, an Ultrasound in Medical Education online portal was created with multiple resources and tools to assist clinicians, educators, administrators, and students with what is needed to ensure outstanding ultrasound training in medical school. Dr Bahner oversaw the implementation of a mentor program, a discussion forum, and a tool kit to increase the number of medical schools incorporating ultrasound in their curricula, as well as making it easier for them to do so by learning from the experiences of others. For the past 3 years, Dr Bahner has also coordinated multiple Special Interest Sessions at each AIUM Annual Convention, focusing on the integration of ultrasound into undergraduate medical education and its future.

Dr Peter Arger—a trailblazer in the field—can rest assured that Dr Bahner is successfully carrying on his legacy and leading the charge for medical students to be well versed in the use of ultrasound.
Distinguished Sonographer Award

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 medical ultrasound. This annual presentation honors an individual whose outstanding contributions to the development of medical ultrasound warrant special merit.

Lisa M. Allen, BS, RDMS, RDCS, RVT

The AIUM has approximately 2500 sonographer members, but Lisa M. Allen, BS, RDMS, RDCS, RVT, sets the standard to which other sonographers should aspire, which is why she is the recipient of the 2015 Distinguished Sonographer Award.

In 1990, Ms Allen received her bachelor of science degree in diagnostic medical sonography from the Rochester Institute of Technology—an organization that would bestow on her the title of Outstanding Educator in 2005. On graduation, she worked for Crouse Hospital in Syracuse, New York, for 2 years before moving to the Regional Perinatal Center, State University of New York (SUNY) Upstate Medical University, where she is the ultrasound coordinator and high-risk obstetric sonographer in the Department of Obstetrics and Gynecology.

Certified in nuchal translucency imaging and nasal bone imaging, Ms Allen is a registered vascular technologist and a registered diagnostic cardiac and medical sonographer in obstetrics and gynecology, the abdomen, and neurosonography. Committed to ensuring that sonographers are well qualified in their profession, she has been active with the American Registry for Diagnostic Medical Sonography, serving as an item development writer for its Fetal Echocardiography Exam Development Task Force and as a member of the Obstetrics and Gynecology Exam Development Task Force. She has been just as committed to educational excellence with the Society of Diagnostic Medical Sonography through membership on its National Certification Exam Review Task Force, Continuing Medical Education Review Committee, and Curriculum Subcommittee of the Advanced Practice Committee, among other activities.

For the AIUM, Ms Allen has been just as involved but with an even broader range of responsibilities. Elected as second vice president for 2 consecutive terms, she has served as Executive Committee liaison to committees; has been an active member of the Ultrasound Practice Accreditation Council, the Clinical Standards Committee, and the Scientific Abstract Review Committee; has been a reviewer for senior and fellow membership applications as well as the Journal of Ultrasound in Medicine; has acted as a moderator for Annual Convention Scientific Sessions; and has been the communications representative for both the Obstetric Ultrasound and the Fetal Echocardiography Communities. But those are only some of her official assignments for the AIUM. Not listed on her curriculum vitae are the countless times staff and officers have asked for her assistance, to which she has always responded with a gracious and committed “Yes. What do you want me to do?” She has taken the mission of the AIUM to heart and has worked diligently on behalf of all sonographers.

Ms Allen has been a contributor to textbooks, book chapters, and continuing medical education publications as well as the lead author on more than a dozen articles in peer-reviewed journals on issues related to prenatal ultrasound. Since 1996, she has given presentations to share her knowledge and expertise with medical professionals as well as encourage science-related careers among students. It will come as no surprise that she was chosen as SUNY Upstate Medical University Employee of the Year (Clinical) in 2011, or that she has received awards for nursing excellence, for professional development, and for scientific poster competitions. Ms Allen is the quintessential medical professional whose every action demonstrates her passion for ultrasound, her dedication to ensuring that sonographers receive the respect they deserve and the education they require, and her commitment to the specialist organizations whose ultimate objective is superb patient care.
Honorary Fellow Award

The Honorary Fellow Award bestows an honorary membership to individuals who have contributed significantly to the field of ultrasound.

Tom Bourne, PhD, FRCOG

Tom Bourne, PhD, FRCOG, attended University College Hospital Medical School, University of London, followed by a residency in the Emergency Department at Bristol Royal Infirmary and the Neonatal Intensive Care Unit at the John Radcliffe Hospital in Oxford. He subsequently trained in obstetrics and gynecology at St Mary’s Manchester and in the Gloucester Royal Infirmary and was introduced to ultrasound when he took a post at King’s College London as a research fellow to Professor Stuart Campbell and ultimately lecturer and senior registrar.

While at King’s College, he introduced the use of vaginal ultrasound and color Doppler imaging before accepting a visiting scientist fellowship at the University of Göteborg in Sweden. There, he initiated research on ovarian function and gynecologic ultrasound and wrote his PhD dissertation on the early detection of ovarian and endometrial carcinoma. Prof Bourne furthered his surgical training in Norway and Belgium before returning to the United Kingdom. He was awarded the MRCOG in 1990 by the Royal College of Obstetricians and Gynaecologists and FRCOG in 2003.

Appointed as consultant obstetrician and gynecologist at St George’s, London, in 1996, Professor Bourne was conferred the title of reader in acute gynecology and gynecologic ultrasound in 2005. Appointed in 2007 as visiting consultant and professor at Katholieke Universiteit Leuven in Belgium, he left St George’s in 2008 to accept his current post as consultant gynaecologist at Queen Charlotte’s and Chelsea Hospital London and adjunct professor at Imperial College London.

He has edited 6 books, published more than 300 papers, and been invited to speak at multiple international meetings. Professor Bourne leads a life of service. He is on the Scientific Committee and Executive Committee of the International Society of Ultrasound in Obstetrics and Gynecology, is a medical advisor and trustee of the UK patient group the Ectopic Pregnancy Trust, was elected president of the UK Association of Early Pregnancy Units, is a member of the UK Medical Research Council panel of experts, is a specialist advisor to the UK National Institute for Health and Clinical Excellence on pain and bleeding in early pregnancy, is on the Steering Committee of the International Ovarian Tumor Analysis and International Endometrial Tumor Analysis trials, and was a member of the Society of Radiologists in Ultrasound Consensus Panel to develop safe guidelines for the diagnosis of early pregnancy failure—just to name a few of his many appointed and elected positions.

Professor Bourne has a special interest in the management of early pregnancy complications, the use of ultrasound in the assessment of gynecologic disorders, and minimal access surgery, but his current research relates to ultrasound, biomarkers, and translational research in early pregnancy and the classification of ovarian tumors. Throughout his career, Professor Bourne has worked with medical luminaries, including Dirk Timmerman, Seth Granberg, and Jan Deprest. Professor Bourne is now the luminary from whom others are learning, which is why he has been chosen as an honorary fellow of the AIUM.
Honorary Fellow Award

The Honorary Fellow Award bestows an honorary membership to individuals who have contributed significantly to the field of ultrasound.

Maria Cristina Chammas, MD, PhD

Maria Cristina Chammas, MD, PhD, is a native of Brazil who graduated in medicine from the Catholic University of São Paulo in 1989 and subsequently earned her master’s degree (1998) and doctorate (2002) in radiology from the Faculty of Medicine, University of São Paulo (USP) with a thesis (Ultrasound Evaluation of the Endometrium in Patients Treated With Tamoxifen) and a dissertation (Contribution of Doppler Ultrasound to the Study of Thyroid Nodules) that would presage her tremendous contributions to the field of medical ultrasound.

Dr Chammas is the director of the Department of Ultrasound, Institute of Radiology, Hospital das Clínicas, Medical School of USP, and professor of postgraduate education at the same institution. She has been the coordinator of the São Paulo Society of Ultrasound Radiology and Diagnostic Imaging since 2003 and is president of the Federation of Latin-American Societies for Ultrasound in Medicine and Biology (FLAUS) for the biennium 2013–2015. A founding member of the International Contrast Ultrasound Society, Dr Chammas is also a past coordinator of the Ultrasound Committee of the Brazilian College of Radiology and Diagnostic Imaging.

A radiologist with a broad range of interests, she focuses on ultrasound in internal medicine, ultrasound of the head and neck (thyroid, salivary gland, tongue, and lymph nodes), and the use of contrast-enhanced ultrasound to evaluate the liver, focal kidney diseases, organ transplants, the breast, and carotid arteries.

Comfortable in 4 languages, Dr Chammas is on the editorial boards of Revista da Imagem and Radiologia Brasileira and has even been a consultant for the Brazilian Journal of Veterinary Medicine and Animal Science, which aptly demonstrates the depth and breadth of her expertise. She has received dozens of commendations over the past 2 decades, ranging from numerous awards for panel presentations to multiple teaching tributes to recognition for her work as an event organizer. This is not surprising, as she has been actively involved in the planning and organizing of 19 local, national, and international conferences; has been a speaker at approximately 200 events; and has had more than 400 works published in conference proceedings.

Because of all her meeting activities, one might expect that she would have time for little else. However, for the past 10 years, Dr Chammas has served on the committee evaluating radiology resident candidates for USP and has been involved in overseeing the theses of dozens of individuals fulfilling their doctoral requirements in radiology. She has set the bar high for these medical professionals who will follow in her footsteps. A prolific writer and researcher, she has written more than 40 book chapters, published 75 journal articles, and worked on 8 books.

With everything she has undertaken in her young and ever more promising career, Dr Chammas has striven to promote the best, newest, and safest options for medical ultrasound to the broadest audience possible. Through research, publishing, and lecturing, she has reached out to educate students as well as practicing physicians in her own country and around the world. For her passion for ultrasound and for her efforts to ensure that this imaging technology has a bright and positive future, the AIUM is proud to name her an honorary fellow.
Honorary Fellow Award

The Honorary Fellow Award bestows an honorary membership to individuals who have contributed significantly to the field of ultrasound.

Michael Grace Kawooya, MBChB, MMed, PhD

Michael Grace Kawooya, MBChB, MMed, PhD, earned his bachelor of medicine and bachelor of surgery as well as his masters in medicine (radiology) from Makerere University in Kampala, Uganda. He subsequently completed a fellowship in ultrasound at Thomas Jefferson University in Philadelphia before returning home to Uganda for his PhD.

Dr Kawooya is director of the Ernest Cook Ultrasound Research and Education Institute (ECUREI) and director of the World Federation for Ultrasound in Medicine and Biology (WFUMB) Center of Excellence, both in Kampala. He is also a member of the National Advisory Committee on Medical Equipment; secretary general of the African Society of Radiology, as well as its representative to the International Commission on Radiological Quality and Safety; chair of the Mengo Hospital Research and Ethics Committee; and local country coordinator for an ultrasound training initiative of the governments of Uganda and the Netherlands called the Ontwikkelings Relevante Export Transacties or (ORET).

Dedicated to increasing the number of health professionals in Africa, Dr Kawooya is committed to ensuring that those health professionals receive the best education possible. He oversaw the accreditation of ECUREI, which enabled the institute to offer diplomas and degrees in diagnostic ultrasound, radiography, and physiotherapy (500 graduates to date under his leadership), and he was part of the team that helped establish WFUMB Centers of Excellence in Nigeria, Togo, and Ethiopia. In addition, he has led ultrasound workshops and given presentations on this safe imaging technology in more than a dozen African countries. Dr Kawooya teaches undergraduate and postgraduate students at the School of Medicine, Makerere University College of Health Sciences, where he previously headed the Department of Radiology, and has been invited to lecture on every continent except Antarctica.

A founding member and past president of the Uganda Society for Advancement of Radiology and Imaging and the Pan African Congress of Radiology and Imaging, this world-traveled physician has directed a variety of initiatives designed to enhance the availability of high-quality medical care in the rural areas of his home country, including projects designed to train midwives to perform basic obstetric ultrasound examinations and integrate ultrasound into focused antenatal care skills, as well as a program to ensure that medical equipment in rural areas is maintained and repaired.

The author of 3 book chapters and 45 journal articles, Dr Kawooya was also on the panel that wrote the Ugandan National Medical Equipment Policy and is working on Referral Guidelines for Diagnostic Imaging—a joint publication of the International Radiation Quality Network and the World Health Organization.

A member of the editorial board of Ultrasound—a journal of the British Ultrasound Society—and associate editor of African Health Sciences, this education-driven medical professional has mentored and supervised more than 30 postgraduate students undertaking the master of medicine degree at Makerere University, has served on the WFUMB Education Committee, and has been an external examiner for Kilimanjaro Christian Medical College in Moshi, Tanzania, the University of Nairobi, and Muhimbili University in Dar es Salaam, Tanzania. A member of 6 national and international professional imaging societies and former vice president of the Mediterranean and African Society for Ultrasound, Dr Kawooya is a man who has shared his knowledge on a global basis but who has also used his many talents and extensive expertise on a local basis, which can and will have a tremendous impact on the health and welfare of his fellow citizens. For these efforts, the AIUM is proud to designate him as an honorary fellow.
Honorary Fellow Award

The Honorary Fellow Award bestows an honorary membership to individuals who have contributed significantly to the field of ultrasound.

Christian Pálsson Nolsøe, MD, PhD

Christian Pálsson Nolsøe, MD, PhD, is a board-certified radiologist who received his medical degree, as well as his doctorate, from the University of Copenhagen, where he is now an associate professor at its Centre for Clinical Education, as well as consultant, Ultrasound Section, Division of Surgery, Department of Gastroenterology, Herlev Hospital. He is also the owner of Ultrasound & X-Ray (a private practice) in Copenhagen.

Currently vice president 1 of the World Federation for Ultrasound in Medicine and Biology (WFUMB), Dr Nolsøe is vice chair of the Scientific Program Committee for the WFUMB/AIUM 2015 Annual Convention. He has been an organizer for more than 5 international scientific congresses on interventional and diagnostic ultrasound, as well as organizer and codirector for 16 courses throughout Scandinavia on Doppler ultrasound, interventional nonvascular radiology, and advanced ultrasound technology. Dr Nolsøe served as president of Euronos 2010, the 22nd Congress of the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB), as well as vice president of Euronos 2003—both of which were held in Denmark. He also served as copresident of WFUMB Congress 2011, held in conjunction with Euronos 2011, in Vienna, Austria, and was secretary of WFUMB 1991 in Copenhagen.

With his 30+ years of experience in medical school teaching and postgraduate lecturing, it is not surprising that Dr Nolsøe has been invited to give more than 250 lectures and scientific presentations throughout Europe, the United States, Australia, the Middle East, Africa, and South America—including the Hans Henrik Holm Honorary Lecture in Croatia in 2004. Nor is it surprising that he has been a popular tutor and examiner for students working on their doctoral dissertations at both the University of Copenhagen in Denmark and the University of Bergen in Norway. In the mid 1990s, Dr Nolsøe was a visiting professor and director of the Ultrasound Section at the University of Texas Medical Branch in Galveston, as well as codirector of the Ultrasound Research Laboratory. He later served as associate professor (external senior researcher) in the Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, in Trondheim.

A member of 7 scientific societies, Dr Nolsøe is a past president of the Danish Society for Diagnostic Ultrasound (2004–2008) and EFSUMB (2009–2011), in addition to being an honorary member of the Australasian Society for Ultrasound in Medicine since 2006.

He is a reviewer for numerous ultrasound journals, and is on the editorial boards of the European Journal of Ultrasound (Ultraschall in der Medizin), Ultrasound in Medicine and Biology, and Ultrasonography—the official English-language journal of the Korean Society of Ultrasound in Medicine.

He was a recent recipient of a $1.25 million grant from the A. P. Møller and Chastine McKinney Møller Foundation for research with regard to NanoKnife ablation of pancreatic cancer, and results from his prior research can be found in more than 65 articles published in national and international medical journals. Dr Nolsøe has also written 5 medical textbook chapters and been involved in the creation of 4 scientific films.

This proud father of 3 and grandfather of 4 has spent 3 decades devoted to the scientific study of medical ultrasound and the promotion of its safe clinical implementation throughout the world. We know that this new AIUM honorary fellow will continue to make contributions that will enhance lives.
Memorial Hall of Fame

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.

Floyd Dunn, PhD

On January 24, 2015, the field of ultrasound lost a true visionary. Floyd Dunn, PhD died at the age of 90 years, just 30 days after the death of his wife, Elsa, to whom he had been married for 64 years.

Born in Kansas to Russian immigrants, Dr Dunn earned his bachelor’s and master’s degrees, as well as his doctorate, from the University of Illinois—an institution he would call home for the next half century. It was a research assistantship with the legendary Professor William J. Fry while in graduate school that would spark his interest in ultrasound. More than 35 years ago, Dr Dunn wrote a letter to another legendary figure in ultrasound, Joseph H. Holmes, MD, who had asked him for information regarding a possible exhibit at the Smithsonian Institution. Dr Dunn wrote that as director of the Bioacoustics Research Laboratory—a post he would hold for 2 decades—he promoted the “5 crucial kinds of problems vitally important for safe and efficacious clinical diagnostic ultrasound, viz, experimental determination of the ultrasonic propagation properties of living systems, investigation of the physical mechanisms of interaction of ultrasound and living systems, studying ultrasonic toxicity, exploring methods for ultrasound dosimetry, and developing ultrasound instrumentation.” He noted at the same time that it was his belief that “ultrasound will continue to increase in its importance in the lives of all in developed countries” and that “It is essential to improve continually, methodologies to make ultrasound ever more efficacious for its diagnostic and therapeutic uses.” He was so right, and so far ahead of his time.

While at the University of Illinois, Dr Dunn held appointments as professor of electrical and computer engineering, professor of bioengineering, and professor of biophysics. He mentored generations of students, many of whom would precede him into retirement, and would teach and lead research not only in the United States but also in the United Kingdom, Japan, and China. Dr Dunn served on several committees of the US Food and Drug Administration and the National Institutes of Health, and his research leadership would make way for the commercial development of the ultrasonic microscope, a wide variety of measurement tools, and ultrasound imaging for prenatal sonograms.

Dr Dunn attended his first AIUM meeting in 1957 when he drove across the country to Los Angeles with Professor Fry. It was the beginning of his commitment to the AIUM and to many other professional societies. Past president of the Acoustical Society of America (ASA)—which would present him with the ASA Gold and Silver Medals—he was also the recipient of the Edison Medal from the Institute of Electrical and Electronics Engineers, as well as the Joseph P. Holmes Basic Science Pioneer Award and the William J. Fry Memorial Lecture Award from the AIUM.

A veteran of the Battle of the Ardennes during World War II, Dr Dunn was an avid reader and James Joyce scholar. He was a tireless worker even during retirement, when he still contributed to the work of his colleagues, edited peer-reviewed articles, held an appointment at the University of Arizona, and consulted with private ultrasound companies. Dr Dunn excelled at all he did. The world is better because he chose ultrasound as his passion; the world is worse because he is gone.
Memorial Hall of Fame

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.

Hector Lopez, DSc

It was with great sadness that the AIUM learned of the passing of one of its long-term members who had maintained a strong commitment to improving the safety and effectiveness of diagnostic and therapeutic ultrasound throughout his illustrious career.

Hector Lopez, DSc, earned his bachelor’s degree in physics from the University of Texas, followed by a master’s degree in biomedical engineering at the University of Virginia, and a doctor of science in medical engineering from George Washington University. He served in the US Air Force as a nuclear medicine specialist before beginning his professional career as a radiologic physics consultant for Physics Control, Inc, followed soon by a move to the US Public Health Service, where he was assigned to the Food and Drug Administration, Centers for Devices and Radiological Health. First as a medical radiation specialist and then as a regulatory research officer, his achievements included writing an ultrasound quality assurance manual that was in use for more than 14 years and that was adopted by the US Army for training technical personnel; creating ultrasound measurement and grayscale analysis tools; patenting a contrast detail phantom that allowed users to conduct quantitative performance evaluations of ultrasound imaging devices; designing the Computational Observer, a unique computer-based method for measuring ultrasound image quality; and investigating mechanisms for ultrasound interactions in clinical applications, including contrast agent fragility, detection of silicone leaks from breast implants, and the use of high-frequency ultrasound to measure damage to skin by ultraviolet radiation—and these represent only a handful of his many projects and undertakings.

Dr Lopez retired from the US Public Health Service with the rank of captain in 2003 because of the 30-year mandatory retirement rule. After contributing so much for so long, most professionals would choose to bow out gracefully and rest on their laurels, but Dr Lopez had much more to give to the field of medical ultrasound. He became a biomedical engineering consultant before serving as a scientific review administrator for the National Institutes of Health Center for Scientific Review and then became program director for the National Institute for Biomedical Imaging and Bioengineering (NIBIB). He conducted reviews of small-business innovation research grants, fellowship grants, shared instrumentation grants, and innovative research grants and supervised portfolios in ultrasound research and radiographic imaging systems.

An author of more than 50 published papers and standards, this multilingual scientist shared his time and expertise with professional associations, including the American Association of Physicists in Medicine, the International Electrotechnical Commission, and the AIUM, for which he was chair of the Technical Standards Committee and the Digital Image Standards Subcommittee, as well as a member of the Education Committee and subcommittees on Doppler, nomenclature, and scanner equivalence testing.

Throughout his career, Dr Lopez has been recognized by his employers and colleagues for his work and his commitment, beginning with an Air Force Commendation Medal in 1974 through more than a dozen other honors that cite him for his “outstanding contributions,” “exceptional leadership,” and “exemplary performance” in science and imaging.

Dr Lopez had set goals for himself for 2014, including collaborating with NIBIB Web media staff to produce 6 short videos on different types of ultrasound; presenting a course on the basics of diagnostic and therapeutic ultrasound physics for NIBIB staff; and conducting a workshop to explore new research areas in ultrasound therapy. Sadly, Dr Lopez did not get to complete his 2014 goals as he died unexpectedly on June 21, 2014.

We don’t envy those who will be assigned to complete his tasks, as it will be daunting to follow in the footsteps of a man such as Dr Lopez. The world has lost a peerless scientist; his family has lost a much beloved member; and the AIUM has lost a visionary who still had so much more to offer the medical ultrasound community.
Memorial Recognition

Established in 2002, Memorial Recognition serves as a posthumous tribute to a creative and devoted physician, research scientist, or other member or nonmember who has contributed to the field of ultrasound in medicine. The honoree is recognized at the Opening Session during the AIUM Annual Convention.

Andrew Helfgott, MD, MHA, CPE

On September 7, 2014, the AIUM lost a much-valued member. More importantly, patients lost an exemplary clinician. And most importantly, the family of Andrew Helfgott, MD, MHA, CPE, lost a much-loved son, husband, sibling, and father.

Dr. Helfgott earned his bachelor’s degree in biology from the Washington & Jefferson College in Pennsylvania and his medical degree from the Universidad Autónoma de Guadalajara in Mexico. He completed his residency in obstetrics and gynecology at what was then the Caledonian Hospital, now the Brooklyn Hospital Center, in New York, before heading south to complete a fellowship in maternal-fetal medicine at the Leonard M. Miller School of Medicine, University of Miami. Committed to education and enhancing his skills, Dr. Helfgott earned a master’s degree in health policy and administration from the University of North Carolina at Chapel Hill and the designation certified physician executive (CPE) from the American Association for Physician Leadership.

His passion for caring for the underserved—with a focus on perinatal human immunodeficiency virus—would begin when he joined the University of Texas Health Science Center in Houston as an assistant professor. While there, Dr. Helfgott founded and served as director of the Women’s Immunology Center, in addition to being the principal investigator for a Pediatric AIDS Clinical Trials Group and a Women’s and Infants Transmission Study. He moved to Pensacola in northwest Florida in the late 1990s, where he became the medical director of the Regional Perinatal Center of the Sacred Heart Health System and a clinical associate professor in the Department of Obstetrics and Gynecology, University of Florida. While in Pensacola, he received the National Award for Teaching Excellence for his commitment to resident education from the Council on Resident Education in Obstetrics and Gynecology of the American College of Obstetricians and Gynecologists (ACOG).

Named professor and chief of the Section of Maternal-Fetal Medicine, Medical College of Georgia, in 2005, he returned to Florida in 2011 to join All Children’s Perinatology Specialists in St Petersburg. Focusing on prenatal diagnosis, ultrasound, and high-risk obstetric care, Dr. Helfgott subsequently moved to the University of South Carolina School of Medicine as professor and director of maternal-fetal medicine in March 2013; 18 months later, he succumbed to complications related to pancreatic cancer, but not without putting up a great fight.

An outgoing and gregarious individual, Dr. Helfgott was a tireless worker who was a member of multiple professional societies, including ACOG, Alpha Omega Alpha, the International Society of Ultrasound in Obstetrics, and the Society for Maternal-Fetal Medicine (SMFM). But he didn’t just pay his membership dues; he was a committed and active member. For the AIUM, he was a member of the Public Education and Resource Committee and the Current Procedural Terminology Coding Committee. He chaired this same committee for the SMFM, where he also served on the Board of Directors until his too-early death, as well as being very involved on the SMFM Scientific Program Committee, serving as scientific forum chair in 2012, postgraduate course chair in 2013, poster chair in 2014, and scientific program chair in 2015. This religious man, who was devoted to his family and dedicated to high-quality patient care, would not live to attend the 2015 annual conventions of the organizations he served so well, but his legacy of caring and hard work will not be forgotten and will serve as an example for others to emulate.
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Saturday, March 21
Preconvention Program

Separate registration required.

Day at a Glance

6:30 AM–6:00 PM  Registration Open
7:00 AM–7:30 AM  Preconvention Breakfast
7:30 AM–5:00 PM  Comprehensive Review of Musculoskeletal Ultrasound

Elastography: State of the Art, 2015
The Fetus: Top 5 “Do Not Miss Diagnoses”

8:00 AM–8:30 AM  WFUMB Nominating Committee Meeting
8:00 AM–2:00 PM  AIUM Bioeffects Committee Meeting
8:30 AM–1:30 PM  WFUMB Education Committee Meeting
10:30 AM–12:00 PM WFUMB Ultrasound in Medicine and Biology Associate Editors Meeting
12:00 PM–1:30 PM  WFUMB Ultrasound in Medicine and Biology Editorial Board Luncheon
1:00 PM–2:00 PM  AIUM Finance Committee Meeting
1:00 PM–5:00 PM  Advanced Fetal Cardiac Examination

Early Pregnancy Complications
Sonographic Guidance of Critical Procedures

1:30 PM–4:30 PM  WFUMB Executive Bureau Meeting
2:00 PM–4:00 PM  AIUM Executive Committee Meeting
2:00 PM–6:00 PM  AIUM Technical Standards Committee Meeting
4:00 PM–5:30 PM  WFUMB Congress Committee Meeting
5:00 PM–6:30 PM  AIUM Presidential Reception for New Members and Leadership (by invitation only)
Preconvention Program

Breakfast
Breakfast will be provided outside each room

7:30 AM–5:00 PM

Full-Day Courses

Comprehensive Review of Musculoskeletal Ultrasound
Earn up to 7.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere I

Moderators: Humberto Rosas, MD, Colin Strickland, MD
Speakers: Nathalie Bureau, MD, FRCP(C), Joseph Craig, MB ChB, Gandikota Girish, MBBS, Jon Jacobson MD, Humberto Rosas, MD, Colin Strickland, MD

On completion of this course, participants will have gained a basic understanding of when and how to perform musculoskeletal ultrasound examinations to evaluate the shoulder, elbow, wrist, hip, knee, ankle, and foot.

Elastography: State of the Art, 2015
Earn up to 7.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere III

Moderator: Richard Barr, MD, PhD
Speakers: Richard Barr, MD, PhD, Vito Cantisani, MD, Jean-Michel Correas, MD, PhD, David Cosgrove, MA, MSc, FRCP, FRCP, Zachary Domine, PhD, Giovanni Ferraioli, MD, Carlo Flice, MD, Brian Garra, MD, Masatoshi Kudo, MD, PhD, Amy Lex, MS, RT(R), RDMS, Kazutaka Nakahama, MD, PhD, Mark Palmeri, MD, PhD

The course will cover all applications, including technical explanations as well as how to use elastography in the various applications and some high-level interpretation with live demonstrations of scanning techniques.

The Fetus: Top 5 “Do-Not-Miss Diagnoses”
Earn up to 7.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere II

Moderators: Phyllis Glanc, MDCM, BSC, FRCP, Anne Kennedy, MBCh, MRCP, FRCR
Speakers: Alfred Abuhamed, MD, Carol Benson, MD, Beverly Coleman, MD, Judy Estroff, MD, Wesley Lee, MD, Phyllis Glanc, MDCM, BSC, FRCP, Anne Kennedy, MBCh, MRCP, FRCR, Deborah Levine, MD, Joan Mastrobatista, MD, Giancarlo Mari, MD, MBA, Israel Meizner, MD, Aris Papageorgiou, MD, Rodrigo Ruano, MD, Gail ter Haar, MA, DSc, MSc, PhD, Ants Tol, MD

This course will review the top 5 Do-Not-Miss Diagnoses in the fetus from head to toe. Speakers will discuss what they consider to be the top 5 most important diagnoses to not miss in their areas of expertise, from a clinical, medicolegal, or ultrasound perspective. The sections will include live scans in addition to dedicated talks on brain, genitourinary, cardiac, musculoskeletal, interventional, Doppler, growth, abdomen, twins, face, and 3-dimensional ultrasound. Test your priorities against the experts.

Committee Meetings

8:00 AM–8:30 AM
WFUMB Nominating Committee
Europe 3

8:00 AM–2:00 PM
AIUM Bioeffects Committee
Europe 1

8:30 AM–1:30 PM
WFUMB Education Committee
Europe 3

10:30 AM–12:00 PM
WFUMB Ultrasound in Medicine and Biology Associate Editors
Europe 6

12:00 PM–1:30 PM
WFUMB Ultrasound in Medicine and Biology Editorial Board Luncheon
Europe 6

1:00 PM–2:00 PM
AIUM Finance Committee
Europe 2
Afternoon Half-Day Courses

**Advanced Fetal Cardiac Examination**
Earn up to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

*Southern Hemisphere IV*

**Moderator:** Jack Rychik, MD  
**Speakers:** Wesley Lee, MD, Jack Rychik, MD, Shabnam Peyvandi, MD, Vita Zidere, MD

This course will familiarize the audience with some of the more difficult diagnoses, their evaluation, and implications of imaging for counseling and prognosis.

**Early Pregnancy Complications**
Earn up to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

*Southern Hemisphere V*

**Moderator:** Misty Blanchette Porter, MD  
**Speakers:** Carol Benson, MD, Tom Bourne, PhD, MRCoG, FRCoG, George Cordous, MD, Peter Doubilet, MD, PhD

After attending this course, participants will know more about the following topics: developing criteria to define miscarriage; pregnancy of unknown viability; how to classify pregnancies of unknown location as low or high risk; tubal ectopic pregnancy—diagnosis, management, and case conundrums; the features of nontubal ectopic pregnancy diagnosis and management; and the psychological impact of early pregnancy events, selecting women for expectant, medical, and surgical management of ectopic pregnancies, including case examples of normal and aberrant first-trimester embryonic growth.

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**Sonographic Guidance of Critical Procedures**
Earn up to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

*Americas Seminar Room*

**Moderators:** Eitan Dickman, MD, RDMS, Arun Nagdev, MD  
**Speakers:** Richard Amini, MD, Christine Riguzzi Allison, MD, Christoph Dietrich, MD, Eitan Dickman, MD, RDMS, Andrew Henting, MD, Christian Johnson, MD, MPH, Matthew Kiefert, MD, Lawrence Haines, MD, MPH, RDMS, Emily Lovall, MD, Arun Nagdev, MD, Jason Nomura, MD, RDMS, Daniel Mantuan, MD, MPH, David Rosenblum, MD, Gary Schwartz, MD, Craig Sisson, MD, RDMS, Sachita Shah, MD

Attendees will learn how to perform a variety of critical procedures using ultrasound-guidance, including nerve blocks, arthrocentesis, pericardiocentesis, and central venous cannulation in traumatically injured patients who are in a cervical-collar. The course will be taught in a small group format using a combination of didactics and hands-on sessions.

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**Committee Meetings**

1:30 PM – 4:30 PM  
**WFUMB Executive Bureau Meeting**  
*Europe 3*

2:00 PM – 4:00 PM  
**AIUM Executive Committee**  
*Europe 2*

2:00 PM – 6:00 PM  
**AIUM Technical Standards Committee**  
*Europe 1*

4:00 PM – 5:30 PM  
**WFUMB Congress Committee**  
*Europe 6*

5:00 PM – 6:30 PM  
**Presidential Reception for New Members and Leadership (by invitation only)**
A REVOLUTIONARY COMBINATION OF

touch and sound

Introducing Touch Ultrasound
From a world leader in imaging comes a revolution in ultrasound: The CARESTREAM Touch Ultrasound System. With a configurable All-Touch control panel like nothing the industry has ever seen, Touch Ultrasound offers a new level of intuitive operation, innovative productivity tools and a powerful processor that provides both efficiency and advanced image quality.

The combination of touch and sound has arrived.

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AIUM2015BOOTH326
Sunday, March 22
Convention

Day at a Glance

7:00 AM–4:00 PM
Registration Open

8:00 AM–9:30 AM
Special Interest Sessions
Handson Special Interest Session

9:30 AM–3:30 PM
WFUMB Current Administrative Council Meeting

9:45 AM–11:30 AM
Opening/Awards Session/AIUM Business Meeting

11:30 AM–1:00 PM
Grand Opening Luncheon in the Exhibit Hall

11:30 AM–4:00 PM
Exhibit Hall Open
E-Posters Open for Viewing

1:00 PM–3:00 PM
Special Interest Sessions
Handson Special Interest Session
AIUM Community Meeting

3:00 PM–3:30 PM
Refreshment Break in the Exhibit Hall

3:30 PM–5:30 PM
Special Interest Sessions
Handson Special Interest Session
AIUM Community Meetings
AIUM Continuing Medical Education Committee Meeting
AIUM Membership Committee Meeting
WFUMB Cosponsorship Committee Meeting
9:45 AM–11:30 AM
Opening Schedule

Pacific Hall B
Sunday, March 22, 2015

Plenary and Awards Session

9:45 AM
Welcome
Steven R. Goldstein, MD

9:50 AM–10:15 AM
William J. Fry Memorial Lecture Award
Awardee – Wesley Lee, MD

10:15 AM–10:50 AM
Plenary Session
Extraterrestrial Medical Care
Scott Dulchavsky, MD, PhD
Professor of Surgery, Molecular Biology, and Genetics
Wayne State University School of Medicine
Roy D. Mcclure Chair and Surgeon in Chief
Henry Ford Health System

11:00 AM–11:05 AM
Joseph H. Holmes Pioneer Award
Clinical Awardee – Peter Callen, MD
Basic Science Awardee – Flemming Forsberg, PhD

11:05 AM–11:10 AM
Distinguished Sonographer Award
Awardee – Lisa Allen, BS, RDMS, RDCS, RVT

11:10 AM–11:13 AM
Honorary Fellow Award
Awardees –
Tom Bourne, PhD, FRCOG
Maria Cristina Chammas, MD, PhD
Michael Kawooya, MBChB, MMed, PhD
Christian Nolte, MD, PhD

11:13 AM–11:15 AM
Memorial Awards
Memorial Hall of Fame Awardees
Hector Lopez, ScD
Floyd Dunn, PhD
Memorial Recognition
Awardee – Andrew Hellgott, MD

11:20 AM–11:25 AM
State-of-the AIUM
Steven R. Goldstein, MD

11:25 AM–11:30 AM
WFUMB/AIUM 2015 Congress Opening Remarks
Hassen A. Gharbi, MD
Co-President of Congress

11:30 AM
Procession to Exhibit Hall Opening/Luncheon
Atlantic Hall B/C
Steven R. Goldstein, MD & Hassen A. Gharbi, MD
Co-Presidents of Congress

Download the Official Proceedings at www.aium.org
Special Interest Sessions

**Adnexal Masses**
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere C**
Moderator: Douglas “Rusty” Brown, MD

This session will cover the following topics: evaluating ovarian masses—morphology, blood flow, and assessment of malignancy; discriminating between borderline, metastatic, and primary invasive ovarian carcinoma—when should we call an oncologist; and sonographic diagnosis and follow-up of adnexal cysts.

8:00 AM–8:30 AM
The Society of Radiologists in Ultrasound Consensus Recommendations on Adnexal Cysts: Where Are We 5 Years Later?
Douglas “Rusty” Brown, MD

8:30 AM–9:00 AM
Using Simple Rules and Descriptors From the International Ovarian Tumor Analysis Group to Classify Ovarian Masses
Tom Bourne, PhD, FRCOG

9:00 AM–9:30 AM
Discriminating Between Borderline, Metastatic, and Primary Invasive Ovarian Carcinoma: International Ovarian Tumor Analysis Prediction Models You Can Use in the Office
Dirk Timmerman, MD, PhD

**Associated Injuries in the Sonography Profession**
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Southern Hemisphere V**
Moderators: J. Oscar Barahona, BS, RDMS, Kathleen Cross, RDMS, RT(R)(M)(CT)

This session will be a presentation of images of various musculoskeletal injuries related to the ultrasound profession.

8:00 AM–8:30 AM
Associated Musculoskeletal Injuries Related to the Sonography Profession
J. Oscar Barahona, BS, RDMS

8:30 AM–9:00 AM
Work-Related Musculoskeletal Injury During Sonography: Reducing the Risk Through Education and Biofeedback
Kevin Evans, PhD, RT (R) (M)(BD), RDMS, RVS

9:00 AM–9:30 AM
Equipment Control Measures to Enhance Sonographer Ergonomics
Daniel Merton, BS, RDMS

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**Creative Beam-Forming Approaches**
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere E 1-2**
Moderators: Kathy Nightingale, PhD, Kai Thomsenius, PhD

The session will include an overview of the source of noise in ultrasonic imaging, in addition to a discussion of several novel beam-forming approaches being investigated to improve image quality.

8:00 AM–8:22 AM
Advanced Beam Forming for Vector Velocity Imaging
Jørgen Jensen, PhD

8:22 AM–8:44 AM
Beam-Forming Methods in the Challenging Patient
Gregg Trahey, PhD

8:44 AM–9:06 AM
A Retrospective Look at Transmit Beam Forming
Larry Mo, PhD

9:06 AM–9:28 AM
Model-Based B-Mode Ultrasound Image Recovery
Brett Byram, PhD

**Genitourinary Ultrasound Update**
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Southern Hemisphere I**
Moderator: Harvey L. Nisenbaum, MD

The goal is to provide updates in genitourinary ultrasound.

8:00 AM–8:20 AM
Elastography in Testis Evaluation
Leandro Fernandez, MD

8:20 AM–8:40 AM
Evaluation of the Prostate for Prostate Cancer: Is Transrectal Ultrasound Useful?
Seung Hyup Kim, MD

8:40 AM–9:00 AM
Contrast-Enhanced Ultrasound in Cancer of the Kidney, Bladder, and Urinary Tract
Vito Cantisani, MD

9:00 AM–9:20 AM
Ultrasound in Acute Scrotal Pain
Harvey L. Nisenbaum, MD

9:20 AM–9:30 AM
Questions and Answers
Obstetric Ultrasound Guidelines and Recommendations: What’s New For 2015
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere II
Moderator: Jude Crino, MD

This session will discuss new and revised guidelines and recommendations for obstetric ultrasound.

8:05 AM–8:20 AM
Multidisciplinary Consensus on the Classification of Prenatal and Postnatal Urinary Tract Dilation
Jude Crino, MD

8:20 AM–8:40 AM
Consensus Report on the Detailed Fetal Anatomic Ultrasound Examination
Anthony Johnson, DO

8:40 AM–9:00 AM
National Institute of Child Health and Human Development Fetal Imaging Workshop
Carol Benson, MD

9:00 AM–9:20 AM
National Institute of Child Health and Human Development Fetal Imaging Workshop: What They Missed
Gregory DeVore, MD

9:20 AM–9:30 AM
Questions and Answers

Teaching and Assessing Point-of-Care Sonography
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 3-4
Moderator: Steve Leech, MD

This session will review the current methods of teaching point-of-care sonography, including curriculum design, competency assessment, and teaching learners from different levels of learning and different specialties.

8:00 AM–8:20 AM
Undergraduate Medical Education: Novel Approaches to Teaching Sonography to Medical Students
David Bahner, MD, RDMS

8:20 AM–8:40 AM
Graduate Medical Education Simulation, Milestones, and Competency Assessment
Resa Lewiss, MD

Ultrasound of the Thyroid: Guidelines and Controversies in the Management of Incidental Thyroid Nodules
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere IV
Moderator: Sharlene Teeffey, MD

Topics covered in this session will include: New American Thyroid Association guidelines—an Endocrinologist’s perspective; Controversies and European guidelines for managing thyroid nodules—an international perspective.

8:00 AM–8:40 AM
New American Thyroid Association Guidelines: An Endocrinologist’s Perspective
James Etzkorn, MD

8:40 AM–9:20 AM
Controversies and European Guidelines for Managing Thyroid Nodules
Maria Cristina Chammas, MD, PhD

9:20 AM–9:30 AM
Questions and Answers

Venous Hands-on Session With Emphasis on Reflux Testing and Calf Vein Imaging
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Atlantic Hall A · First Level
Moderator: George Berdejo, BA, RVT

This session will provide an in-depth technical overview of the techniques necessary to use duplex ultrasound to: (1) evaluate the patient with chronic venous insufficiency; and (2) identify and evaluate, with confidence, the deep veins of the calf for the presence of deep vein thrombosis.

8:00 AM–8:15 AM
Ultrasound Evaluation of Venous Reflux in the Lower Extremities and Tips on How to Find Calf Veins
Joshua Cruz, RDMS, RVT
8:15 AM–8:30 AM
Ultrasound-Directed Closure Procedures and Treatment of Thrombosis After Closure
John Bliebea, MD, MBA

8:30 AM–9:30 AM
Hands-on Faculty: George Berdejo, BA, RVT,
John Bliebea, MD, MBA, Joshua Cruz, RDMS, RVT,
M. Robert De Jong, RDMS, RDCS, RVT, Roy Fujitani, MD,
RVT, Gouthaman Gunabushanam, MD, Ulrike Hamper,
MD, MBA, Margarita Rezvbin, MD, MS, Deborah Rubens,
MD, Leslie Scouett, MD, Susan Smith, RDMS, RDCS, RVT

9:30 AM–3:30 PM
WFUMB Committee Meeting
Current Administrative Council
Europe 6

11:30 AM–1:00 PM
Grand Opening Luncheon in the Exhibit Hall
Atlantic Hall B/C - First Level

1:00 PM–3:00 PM
Special Interest Sessions

 Contrast-Enhanced Ultrasound in Pediatrics
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 1-2
Moderator: Mary Beth McCarville, MD

In this session, experts in pediatric contrast-enhanced ultrasound (CEUS) will discuss the current role of CEUS in the assessment of trauma, focal liver lesions, and voiding urosonography in children. The potential need for a pediatric CEUS registry and other regulatory issues will be discussed.

1:00 PM–1:30 PM
Potential Roles of Contrast-Enhanced Ultrasound in Children: Trauma and Beyond
Annmaria Deganello, MD

1:30 PM–2:00 PM
Contrast-Enhanced Ultrasound of Focal Liver Lesions in Children
Maria Sellars, MD

2:00 PM–2:30 PM
Voiding Urosonography: An Update
Kassa Darge, MD, PhD

2:30 PM–3:00 PM
Regulatory Issues, How to Solve Them, and the European Federation of Societies for Ultrasound in Medicine and Biology Registry
Christoph Dietrich, MD

Four-Dimensional Fetal Cardiac Examination (Basic and Advanced)
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere C
Moderator: Liat Gindes, MD

This session will review current state-of-the-art fetal cardiac 3- and 4-dimensional imaging.

1:00 PM–1:20 PM
How to Think in 3- and 4-Dimensional
Lami Yeo, MD

1:20 PM–1:40 PM
Advanced 3- and 4-Dimensional Echocardiographic Techniques
Liat Gindes, MD

1:40 PM–2:00 PM
Three- and Four-Dimensional Assessment of Fetal Atrioventricular Valve Junction in 4-Chamber Anomalies
Luis Gonçalves, MD

2:00 PM–2:20 PM
Fetal 3- and 4-Dimensional Cardiac Imaging: Past, Present, and Future
Greggory DeVore, MD

2:20 PM–3:00 PM
Live Demonstration
Greggory DeVore, MD

 Hands-on Obstetric Ultrasound
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Atlantic Hall A - First Level
Moderators: Joan Mastrobattista, MD, Julia Solomon, MD, CM

Participants will perform obstetric ultrasound examinations on second- and third-trimester models with supervision by and instruction from sonographer and physician experts.

Hands-on Faculty: Lisa Baik, RT(R), RDMS, Nasrin Benion, RDMS, Kathleen Bradley, MD, Jude Crino, MD, Cynthia Fraser, RDMS, Bryan Freeman, MD, Angela Glaser, RDMS, Amanda Howard, RDMS, Luis Izquierdo, MD, MBA, Lynn Murphy-Kautbeck, MD, CPE, Veronica Martinez, RDMS, Anne Maude Morency, MD, RDMS, Susan Campbell Westerway, PhD
Quantitative Ultrasound
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere IV
Moderators: Keith Wear, PhD, Sharat Lin, PhD, Jonathan Rubin, MD, PhD

This session will cover recent advances in quantitative ultrasound, including measurements of blood flow and scattering. Clinical applications in the cervix, liver, prostate, and lymphatic system will be discussed.

1:00 PM–1:24 PM
The Best of Quantitative Ultrasound
William O’Brien Jr, PhD, Michael Oelze, PhD

1:24 PM–1:48 PM
Quantitative-Ultrasound Characterization of Ex Vivo Human Lymph Nodes
Ernest Feleppa, PhD, Jonathan Mamou, PhD

1:48 PM–2:12 PM
Clinical Applications of Volumetric Blood Volume Flow Estimation
Paul Carson, PhD, Oliver Kripfgans, PhD, Jonathan Rubin, MD, PhD

2:12 PM–2:36 PM
Quantitative Ultrasound in the Cervix
Helen Feltovich, MD, Timothy Hall, PhD

2:36 PM–3:00 PM
Functional and Structural Imaging With Microbubble Contrast Agents
Robert Eckersley, MD

Teaching Aspects of Musculoskeletal Ultrasound: How to Get Started, Pearls, and Pitfalls
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere I
Moderator/Speaker: Patrick Meyers, BS, RDMS, RDCS, RVT

This session will describe aspects of teaching and learning musculoskeletal tools: basics in the process of learning musculoskeletal ultrasound.

1:00 PM–1:20 PM
Ultrasound of the Gastrointestinal Tract
Stephanie Wilson, MD

1:20 PM–1:40 PM
Ultrasound of the Pancreas
Nitin Chaubal, MD, DMRD, FICR

1:40 PM–2:00 PM
Ultrasound of the Spleen
Vikram Dogra, MD
2:00 PM–2:20 PM
Ultrasound of the Kidneys and Retroperitoneum
Nirvikar Dahiya, MD

2:20 PM–2:40 PM
Ultrasound of the Perineum
Dieter Nürnberg, MD

2:40 PM–3:00 PM
Questions and Answers

1:00 PM–3:00 PM
AIUM Community Meeting

**Ultrasound in Global Health**

*Europe 3*

_Moderators: Megan Leo, MD, RDMS, Ramon Sanchez, MD, Sanjiv Bajaj, MD_

The Ultrasound in Global Health Interest Group welcomes all providers and sonographers who are currently working on ultrasound-focused global health projects or have an interest in learning more about how to get involved. Our goal is to connect members who strive to improve health care outcomes in areas of the world with resource limitations that make ultrasound such an important diagnostic tool. At this meeting, we will review current initiatives in ultrasound education and research internationally, with a focus on resource-limited settings. We will also review important resources, courses, and websites that may help you with your ultrasound in global health project. Several of our interest group members will provide presentations on their current ultrasound projects. These will include a presentation on ultrasound findings in Ebola patients treated in Liberia by one of our community members. Last, we will set the agenda for the 2016 AIUM Ultrasound in Global Health Lecture Series. We value your input!

3:30 PM–5:30 PM

**Special Interest Sessions**

**Assessment of the Fetus at Risk**

*Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.*

_Northern Hemisphere C_

_Moderators: Lynn Simpson, MD, MSC, Lami Yeo, MD_

The objectives of this session are to review the fetal echocardiographic assessment and findings in diseases that may cause fetal distress and to discuss newer modalities for early detection and intervention for improving pregnancy outcomes in these pathologies.

3:30 PM–4:00 PM
Method of Assessment
James Huhta, MD

4:00 PM–4:15 PM
Intrauterine Growth Restriction: Obstetrician’s View
Lynn Simpson, MD, MSc

4:15 PM–4:30 PM
Intrauterine Growth Restriction: Fetal Cardiologist’s View
Julene Carvalho, MD, PhD

4:30 PM–4:45 PM
Fetal Anemia: Obstetrician’s View
Giancarlo Mari, MD, MBA

4:45 PM–5:00 PM
Fetal Anemia: Fetal Cardiologist’s View
Sarah Chambers, MD

5:00 PM–5:15 PM
Twin-Twin Transfusion Syndrome: Fetal Cardiologist’s View
Boris Tutschek, MD, PhD

5:15 PM–5:30 PM
Twin-Twin Transfusion Syndrome: Fetal Cardiologist’s View
Anita Moon-Grady, MD, FAAP, FACC, FASE

3:00 PM–3:30 PM

**Refreshment Break in the Exhibit Hall**

Atlantic Hall B/C • First Level
**Doing the Right Moves for Living Pain Free as a Sonographer**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Southern Hemisphere IV**

**Moderators/Speakers:** Christine Bird, BS, RDMS, RVT, Mark Roozen, Med, CScS, *D, NSCA-CPT, Doug Wueben, BA, AS, RDCC

**Speakers:** Mark Roozen, Med, CScS, *D, NSCA-CPT, Doug Wueben, BA, AS, RDCC

This session is designed to show individuals how to incorporate exercise into their life along with following sound ergonomic principals and using the right equipment to eliminate pain during their job.

**Echographie Foetale: Quoi de Neuf en 2015 (in French)**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere E 1-2**

**Moderator:** Hassen Gharbi, MD, Michel Claudon, MD

L’echographie foetale est une donnée fondamentale de la surveillance des grossesses.

Les Écoles Françaises et Tunisiennes ont des expériences très différentes mais très intéressantes et très instructives dans le dépistage des anomalies foetales du premier trimestre au 3ème trimestre.

3:30 PM–3:40 PM
Introduction : Role de la WFUMB: passé, présent et avenir, pour l’echographie foetale et le reste
*Hassen A. Gharbi, MD*

3:40 PM–4:00 PM
Contrôle de qualité du dépistage de la trisomie 21 au 1er Trimestre avec BioNuQual: les 2 premiers millions de résultats
*Philippe Coquel, MD*

4:00 PM–4:20 PM
Echographie du 3ème trimestre: une spécificité Française
*Catherine Egoroff, MD*

4:20 PM–4:40 PM
Infections foetales: les images-clés
*Elisabeth Bensaid, DU*

4:40 PM–5:00 PM
Echo foetale en Tunisie, exemple de pays émergents: passé, présent, avenir, rôle de la coopération
*Kaouther Dimassi, MD*

5:00 PM–5:20 PM
Discussion
*MICHEL CLAUDON, MD*

5:20 PM–5:30 PM
Conclusion
*Jacques Abramowicz, MD*

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**Hands-on Scanning: Upper Extremity Joints (Shoulder, Elbow, and Wrist)**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Atlantic Hall A · First Level**

**Moderators:** Mary Chiavaras, MD, PhD, Kenneth Lee, MD

On completion of this session, participants will have gained hands-on experience in scanning the upper extremity joints of the shoulder, elbow, and wrist.

**Hands-on Faculty:** Mary Chiavaras, MD, PhD, Cristy Gustas, MD, Jon Jacobson, MD, Lauren Ladd, MD, Kenneth Lee, MD, Patrick Meyer, BS, RDMS, RDCS, RVT, William Medford, RDMS, RMT, Levon Nazarian, MD, Daniel Nissman, MD, MPH, MSEE, Humberto Rosas, MD, Courtney Scher, DO, Daniel Siegal, MD, Colin Stickland, MD, Andrew Zbojnowicz, MD

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**Pelvic Floor Ultrasonography: Transperineal and Endovaginal Imaging**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere D-E**

**Moderators:** Phyllis Glanc, MDCM, BSC, FRCPC, Abbas Shobeiri, MD

This session is designed to show participants how to obtain optimal images of pelvic floor muscles and organs. Attendees will learn how useful images of the pelvic floor are obtained and interpreted. Emerging techniques of “dynamic” pelvic floor ultrasound and 3-dimensional ultrasound will be introduced.

3:30 PM–3:40 PM
Introduction: Course Objectives, Clinical Background, and Rationale for Pelvic Floor Imaging
*Abbas Shobeiri, MD*

3:40 PM–4:00 PM
Anatomic Basis of Pelvic Floor Ultrasonography
*Abbas Shobeiri, MD*

4:00 PM–4:20 PM
Functional 2- and 3-Dimensional Endovaginal Imaging of the Lateral Compartment, Anterior Compartment, and Posterior Compartment, Including Anal Sphincter Imaging
*Lieschen Quiroz, MD*

4:20 PM–4:40 PM
Functional 3- and 4-Dimensional Transperineal Imaging of the Lateral Compartment, Anterior Compartment, and Posterior Compartment, Including Anal Sphincter Imaging
*Phyllis Glanc, MDCM, BSC, FRCPC, Abbas Shobeiri, MD*

4:40 PM–5:30 PM
Live Imaging
Recent Advances in Clinical and Preclinical Intravascular Ultrasound
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E3-4
Moderator: Jonathan Mamou, PhD

This session will review basic principles of intravascular ultrasound imaging using high-frequency ultrasound, discuss its clinical significance, and provide highlights of current state-of-the-art preclinical and clinical research.

3:30 PM–4:30 PM
Intravascular Ultrasound Detection of Life-Threatening Plaques: General Principles and Preliminary Results
Marvin Doyley, PhD

4:30 PM–5:30 PM
Intravascular Imaging With Light and Sound
Ton van der Steen, PhD

3:30 PM–5:30 PM
AIUM Community Meeting

General and Abdominal Ultrasound
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Américas Seminar Room
Moderators: Sharlene Teeley, MD, Salvatore LaRusso, MEd, RDMS, RT(R), Nirvikar Dahlia, MD

The General and Abdominal Ultrasound Community would like to invite any meeting participant who is interested in abdominal ultrasound to join us for our community meeting. We represent you and would like to hear your views, thoughts, and interests on future topics. This is your meeting! We make every effort to integrate your suggestions into the meeting. In fact, we may ask you to lecture! This community covers several topics, including breast ultrasound, small parts, abdominal visceral Doppler ultrasound, and abdominal ultrasound, in a variety of formats. At this meeting, we will begin to develop a course schedule and request names for speakers for the 2016 Annual Convention. We will also evaluate the success of the courses presented at this meeting. Attending a community meeting is an excellent means to network with other community members with similar interests and promote our community and the AIUM. Please join us!
AIUM Ultrasound Practice Accreditation Tutorial

Monday, March 23 • 1:00–3:00 PM • Europe 3

Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Speakers: Therese Cooper, BS, RDMS, AIUM director of accreditation, and
          Jennifer Drabo, BS, RDMS, AIUM clinical accreditation coordinator

During this question-and-answer tutorial, attendees will learn about standards for examination
protocols, personnel, quality assurance, record keeping, and safety. The accreditation staff will guide
potential applicants through the online application.

Specialties accredited by the AIUM include:

- Abdominal/general ultrasound;
- Breast ultrasound;
- Dedicated musculoskeletal ultrasound (with or without ultrasound-guided interventional procedures);
- Dedicated thyroid/parathyroid ultrasound;
- Fetal echocardiography;
- Gynecologic ultrasound (with or without 3D Gyn);
- Head and neck ultrasound;
- Obstetric or trimester-specific obstetric ultrasound;
- Urologic ultrasound; and
- Ultrasound-guided regional anesthesia

AIUM accreditation shows your practice’s commitment to providing the best ultrasound services and demonstrates that your practice meets the quality assurance requirements of a growing number of insurance companies.

The Measure
of Excellence

Have questions but can’t attend the tutorial?

E-mail or text questions to accreditation@aium.org
### Monday, March 23

**Convention**

#### Day at a Glance

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<td>AIUM Journal of Ultrasound in Medicine Editorial Board Meeting</td>
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<td>AIUM Presidential Advisory Council Meeting</td>
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<td>AIUM Clinical Standards Committee Meeting</td>
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<td>WFUMB Safety Committee Meeting</td>
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<td>WFUMB Archives Committee Meeting</td>
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<td>5:45 PM–6:30 PM</td>
<td>WFUMB General Assembly Meeting</td>
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<td>7:00 PM–10:00 PM</td>
<td>Dinner and Karaoke (additional fee to attend)</td>
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Just Images and Comprehensive Refresher Sessions

Carotid and Upper Extremity Arterial Imaging: Challenges, Pitfalls, and Missed Diagnoses
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Southern Hemisphere I
Moderators: Gowthaman Gunabushanam, MD, Leslie Scott, MD

This session will provide a review of case studies in carotid and upper extremity vascular imaging to demonstrate examples of pitfalls in technique and interpretation and to stimulate discussion regarding diagnostic criteria and how to avoid technical and interpretive errors.

7:00 AM–7:30 AM
Carotid Imaging
Deborah Rubens, MD

7:30 AM–8:00 AM
Upper Extremity Imaging
Gowthaman Gunabushanam, MD

Guidelines for Examination of the Fetal Heart (Basic)
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Northern Hemisphere C
Moderator: Dolores Pretorius, MD

The objective of this session is to review recently published and updated guidelines for minimum standards for examination of the fetal heart.

7:00 AM–7:15 AM
AIUM Guidelines for Evaluation of The Fetal Heart in the Context of the Obstetric Ultrasound Examination
Dolores Pretorius, MD

7:15 AM–7:30 AM
ISUOG Practice Guidelines (Updated) Sonographic Screening Examination of the Fetal Heart
Juliene Carvalho, MD, PhD

7:30 AM–7:45 AM
Recommendations from the American Heart Association Scientific Statement on Diagnosis and Treatment of Fetal Cardiac Disease
Anita Moon-Grady, MD

7:45 AM–8:00 AM
Panel Discussion

Gynecologic Ultrasound in Pediatrics
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Southern Hemisphere IV
Moderator: Leann Linam, MD

This session will provide an evaluation through multiple cases presented by 3 lectures with information on neonatal, pediatric, and adolescent gynecologic ultrasound.

7:00 AM–7:20 AM
Gynecologic Anomalies
Harris L. Cohen, MD

7:20 AM–7:40 AM
Ovarian Torsion
Leann Linam, MD

7:40 AM–8:00 AM
Ovarian Cysts
Martha Munden, MD

Head Ultrasound of Hypoxic Ischemic Encephalopathy
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Southern Hemisphere V
Moderator: Beth Kline-Fath, MD

A review of normal head ultrasound will be followed by imaging findings of hypoxic ischemic injury in the preterm and term infant.

7:00 AM–7:30 AM
Normal Head Ultrasound
Martha Munden, MD

7:30 AM–8:00 AM
Head Ultrasound of Hypoxic Ischemic Encephalopathy
Beth Kline-Fath, MD

Just Images: Obstetric Basics
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Southern Hemisphere III
Moderator: Lorene Romine, MD

The objective of this session is to review tips for optimal imaging, on-line resources, and 3- and 4-dimensional ultrasound.

7:00 AM–7:20 AM
Optimal Imaging Tips: The Basics for Obstetric Scanning
Mishella Perez, BS, RDMS, RDCS
Just Images—Too Cool! Interesting Cases in Interventional Ultrasound: Novel and Practical Approaches to Procedures

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

Northern Hemisphere E 1-2
Moderators: Corinne Deurdulian, MD

After attending this session, participants will be familiar with interesting cases incorporating new techniques and technologies involving ultrasound-guided interventional procedures.

7:00 AM–7:30 AM
Case Presentation
Dean Huang, BMedSci, BMBS, MRCPCH, FRCR, EBIR

7:30 AM–8:00 AM
Case Presentation
Devang Butani, MD

Three-Dimensional Imaging of the Uterus: The Value of the Coronal Plane

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

Southern Hemisphere II
Moderator: Rochelle Andreotti, MD

The participant will recognize 3-dimensional reconstruction in the coronal plane as the imaging modality of choice in the evaluation of uterine shape anomalies, to improve visualization of the entire intrauterine device and other methods of tubal contraception, and to better understand the relationship of masses and adhesions to the endometrial cavity with and without sonohysterography.

7:00 AM–7:10 AM
Introduction
Rochelle Andreotti, MD

7:10 AM–7:35 AM
Evaluation of Uterine Shape Abnormalities Using 3-Dimensional Ultrasound
Yvette Groszmann, MD, MPH

7:35 AM–8:00 AM
Volumetric Imaging of Intracavitary Abnormalities and Intrauterine Devices
Rochelle Andreotti, MD

Alternative Acoustic Source Imaging

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere V
Moderators: Mark Holland, PhD, Thomas Szabo, PhD

On completion of this session, participants should be able to describe current alternative methods for generating ultrasonic images for research and potential clinical application and identify potential areas for collaboration and innovation.

8:15 AM–8:45 AM
Emergence of Multiwave Imaging in Radiology
Mickael Tanter, PhD

8:45 AM–9:15 AM
Photoacoustic Tissue Characterization: Insights From Imaging at Multiple Scales
Michael Kolios, PhD

9:15 AM–9:45 AM
Magnetoacoustic Tomography With Magnetic Induction
Kai Yu, MSci

9:45 AM–10:15 AM
Focused Ultrasound Neuromodulation
Seung-Schik Yoo, PhD, MBA

Cutting-edge Musculoskeletal Ultrasound: Peripheral Nerves of the Upper Extremity

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere D-E
Moderator: Corrie Yablon, MD

On completion of this session, participants should know how and when to perform ultrasound examinations of the peripheral nerves of the upper extremity, including interventional techniques.

8:15 AM–8:55 AM
Anatomy of the Upper Extremity Peripheral Nerves
Corrie Yablon, MD

8:55 AM–9:35 AM
Entrapment Neuropathies of the Upper Extremity Nerves
Daniel Siegal, MD
9:35 AM–10:15 AM
Ultrasound Evaluation of Peripheral Nerve Injury and Postoperative Treatment
Alberto Simoncini, MD

Endometriosis: Refining Our Approach
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere I
Moderator: James Shwayder, MD, JD

The session will discuss the following: a preoperative ultrasound-based staging system for women with potential endometriosis; correlation of sonographic findings and laparoscopic findings with advanced-stage endometriosis; and predicting pouch of Douglas obliteration by sonovaginography.

8:15 AM–8:45 AM
Endometriosis: An Overview
Beryl Benacerraf, MD

8:45 AM–9:15 AM
Correlation of Ultrasonographic and Laparoscopic Findings With Advanced-Stage Endometriosis
James Shwayder, MD, JD

9:15 AM–9:45 AM
New Technologies in the Diagnosis of Deep Infiltrating Endometriosis
George Condous, MD

9:45 AM–10:15 AM
Classifying Deep Infiltrating Endometriosis: The Leuven Protocol
Dirk Timmerman, MD, PhD

Fetal Growth and Obstetric Doppler Ultrasound
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere C
Moderator: Jacques Abramowicz, MD

The objective of this session is to discuss the diagnosis and management of fetal growth abnormalities and principles and applications of obstetric Doppler ultrasound.

8:15 AM–8:35 AM
Introduction: Normal Growth, Normal Doppler
Jacques Abramowicz, MD

8:35 AM–9:15 AM
Abnormal Growth: Which Test and Why or Why Not?
Aris Papageorgiou, MD

9:15 AM–9:55 AM
Doppler Ultrasound in Intratuine Growth Restriction
Ahmet Baschat, MD

Hands-on Elastography
SOLD OUT
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Atlantic Hall A · First Level
Moderator: Richard Barr, MD, PhD

In this session, the learner will be able to look at a variety of ultrasound systems that offer elastography in a variety of applications and different techniques. The user will be able to see the capabilities on phantoms and, in some cases, models. The user can also engage clinicians to answer questions and provide insight into elastography and its value in ultrasound imaging.

Hands-on Faculty: Richard Barr, MD, PhD,
Giovanna Ferraioli, MD

Understanding Carotid Stenosis: Diagnosis, Treatment, and Follow-up
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere II
Moderator: Leslie Scutt, MD

On completion of this session, participants will understand the role of ultrasound and correlating imaging in the diagnosis of carotid stenosis, understand optimal management, and be able to analyze the role of ultrasound in follow-up of patients after interventions.

8:15 AM–8:35 AM
Society of Radiologists in Ultrasound Criteria for Grading Carotid Stenosis: The Case for Consensus
John Pellerito, MD

8:35 AM–8:55 AM
Grading Carotid Stenosis: What the Society of Radiologists in Ultrasound Criteria Omit
Laurence Needleman, MD

8:55 AM–9:15 AM
When Is Ultrasound Not Enough?
Ajay Malhotra, MD

9:15 AM–9:35 AM
The Role of Carotid Endarterectomy
Roy Fujitani, MD, RVT

9:35 AM–9:55 AM
The Role of Carotid Stents
John Blebea, MD, MBA

9:55 AM–10:15 AM
Postintervention Imaging
Laurence Needleman, MD
WFUMB Ultrasound—Crucial to Improve Global Health Care: Part 1
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere IV
Moderators: Harvey L. Nisenbaum, MD, Christian Nolsøe, MD, PhD

In the first part of this 2-part series, 8 organizations will discuss their global outreach programs.

8:15 AM
Introduction
Harvey L. Nisenbaum, MD

8:15 AM–8:30 AM
World Federation for Ultrasound Medicine in Biology
Harald Lutz, MD, Byung Choi, MD

8:30 AM–8:45 AM
World Interactive Network Focused on Critical Ultrasound
Michael Blaivas, MD

8:45 AM–9:00 AM
International Society of Radiology
James Borgstede, MD

9:00 AM–9:15 AM
International Society of Ultrasound in Obstetrics and Gynecology
Alfred Z. Abuhamad, MD

9:15 AM–9:30 AM
World Federation of Pediatric Imaging
Dorothy Bulas, MD

9:30 AM–9:45 AM
Radiological Society of North America
Kristen De Stigter, MD

9:45 AM–10:00 AM
Imaging the World
Kristen De Stigter, MD

10:00 AM–10:15 AM
World Health Organization
Miriam Mikhail, MD

This session is supported in part by an unrestricted educational grant from:
GE Healthcare; Philips Medical Systems; Samsung Medison Co, Ltd; SonoSite, Inc; Toshiba Medical Systems Corporation

10:30 AM–12:30 PM
AIUM Committee Meeting

Council on Communities
Europe 2

10:45 AM–12:00 PM
Film Panel Session

Peripheral Arterial Imaging: How Doppler Ultrasound and Noninvasive Testing Impact Patient Care
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere I
Moderator: John Pellerito, MD

This session will discuss the role of noninvasive testing and Doppler ultrasound in the diagnosis and management of patients with suspected peripheral arterial disease, including pitfalls, misdiagnoses, workup algorithms, and diagnostic criteria. This course will focus on what the clinician needs to learn from the ordered study.

Panelists: George Berdejo, BA, RVT, John Blebea, MD, MBA, Roy Fujitani, MD, RVT, Gowthaman Gunabushanam, MD, John Pellerito, MD

10:45 AM–12:00 PM
Special Interest Sessions

Perinatal Ultrasound and Magnetic Resonance Imaging Correlations (Fetus and Neonate)
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 1-2
Moderator: Harris L. Cohen, MD

The session will have audience response images and cases of perinatal works in the neonatal head, neck, and chest, as well as abdomen and pelvis.

Case Presentations: Carol Barnewolt, MD, Maria Calvo-Garcia, MD, Harris L. Cohen, MD, Teresa Victoria, MD
Wrong Diagnosis: Learning From Our Mistakes (Basic and Advanced)
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere C
Moderator: Alfred Abuhamad, MD

The objective of this session is to present false-positive and false-negative cases of congenital heart disease.

10:45 AM–11:05 AM
Doppler Overdiagnosis and Underdiagnosis
Gregory DeVore, MD

11:05 AM–11:25 AM
Mistakes Due to Wrong Angle of Insonation
Boris Tutschek, MD, PhD

11:25 AM–11:45 AM
Learn From Our Mistakes: What Was the Real Diagnosis?
Reem Abu-Rustum, MD

11:45 AM–12:00 PM
Learn From Our Mistakes: What Was the Real Diagnosis?
Alfred Abuhamad, MD

WFUMB Ultrasound—Crucial to Improve Global Health Care: Part 2
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Americas Seminar Room
Moderators: Harvey L. Nisenbaum, MD, Christian Nolte, MD, PhD

In the second part of this 2-part series, using a roundtable discussion, companies will be asked questions to help us understand how they decide where to devote their resources to bring ultrasound to underserved areas, including what local conditions need to be in place. Other questions will be directed to help us understand how companies and organizations who have outreach programs can work together effectively to bring ultrasound to areas where it is the only imaging modality that is feasible and can transform their health care.

10:45 AM–11:30 AM
Roundtable Discussion With Participating Companies
FujiFilm Sonosite, Inc; GE Healthcare; Hitachi Aloka Medical, Ltd; Mindray North America; Philips Healthcare; Samsung Electronics America, Inc; Siemens Medical Solutions, USA, Inc; Toshiba America Medical Systems, Inc

11:30 AM–12:00 PM
Questions and Answers

This session is supported in part by an unrestricted educational grant from:
GE Healthcare; Philips Medical Systems; Samsung Medison Co, Ltd; SonoSite, Inc; Toshiba Medical Systems Corporation

10:45 AM–12:00 PM
Scientific Sessions
Learn about the latest research in ultrasound in concise oral presentations.
* Indicates presenter.

Gynecologic Ultrasound
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere II
Moderators: Rochelle Andreotti, MD, Dirk Timmerman, MD, PhD

10:45 AM–11:00 AM
Anchor Speaker: Dirk Timmerman, MD, PhD

11:00 AM–11:07 AM
2058948 Quality Assurance in Gynecologic Ultrasound
Elaine Stickrath,* William Brown

11:07 AM–11:14 AM
2092307 Clinical Relevance of Uterine Subseptions: Does the Differentiation Between Arcuate and Septate Uterus Still Matter?
Laura Detti,* Holly Norwich

11:14 AM–11:21 AM
2085248 Fallopian Tube Cancer: Description of Ultrasonographic Findings
Lourdes Hereter,* Betlem Graupera, M. Angela Pascual, Francisco Tresserra, M. Angeles Martinez, Cristina Pedrero

11:21 AM–11:28 AM
2065151 Relationship Between Clinical Symptoms of Bloating and Incidence of Ovarian Neoplasms on Pelvic Ultrasound
Chaiti Ripley-Hager, Evelyn Fleming, Robert Harris*

11:28 AM–11:35 AM
2086433 Management and Outcome of Cesarean Scar Pregnancies: Experience of 60 Cases in 1 Center
Ilan Timor-Tritsch

11:35 AM–11:42 AM
2086780 Levator Ani Muscle Function Changes to Accommodate Pregnancy and Returns to Baseline Postpartum
Timothy Canavan

11:42 AM–11:49 AM
2089671 Evaluation of the Clinical Efficacy of an Automated Hydrogen Peroxide–Based Device for High-level Disinfection of Ultrasound Probes
M. Robert De Jong
High-Frequency Clinical and Preclinical Ultrasound

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDSMS) or ARRT Category A Credits.

Moderators: Flemming Forsberg, PhD, Ximena Wortsman, MD

10:45 AM–10:55 AM
2091785 Development of a Small-Animal Model of Onchocerciasis: Verification With High-Frequency Ultrasound Imaging
Maria Stanczak, Jessica Hess, John Patton, John Eisenbrey, Ji-bin Liu, April Torigian, David Abraham, Flemming Forsberg*

10:55 AM–11:05 AM
2090163 Ultrasound and Optical Backscatter in Cross-linked Rabbit Cornea
Ronald Silverman, *Raksha Urs, Harriet Lloyd

11:05 AM–11:15 AM
2088359 Photoacoustic Imaging of Vascular Oxygenation Following Dielectric Barrier Discharge Plasma Wound Treatment
Natalie Chernets, John Eisenbrey, Ji-bin Liu, Qianshi Zhang, Deepa Kurpad, Theresa Freeman, Flemming Forsberg*

11:15 AM–11:25 AM
2088079 Quantitative Assessment of Radiofrequency Ultrasound Signals to Monitor Myocardial Fibrosis
Terri Swanson, *Christopher Salatto, Benjamin Maciejewski, Alan Opsahl, Theresa Tufvill

11:25 AM–11:35 AM
2091386 Role of Ultrasound in the Maxillofacial Region
Prachi Chaubal, *Nitin Chaubal, Rajas Chaubal*

11:35 AM–11:45 AM
2089208 Ultrasound Evaluation and Grading of Oral Submucous Fibrosis
Shyamsundar Joshi, Muralidhar Kamalapur,* Preetham Patil, Santosh Dasar, Santosh Patil, Vinayak Tonne

11:45 AM–11:55 AM
2087299 Ultrasound Applications With High-Frequency Transducers in Skin Pathologies
Marcio Bouer*

Liver and Hepatobiliary Ultrasound

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDSMS) or ARRT Category A Credits.

Moderators: Byung Inh Choi, MD, and Deborah Rubens, MD

10:45 AM–11:00 AM
10:45 AM–11:00 AM
Anchor Speaker: Byung Inh Choi, MD

11:00 AM–11:07 AM
2084400 Liver Stiffness With and Without Serum α-Fetoprotein in Discriminating Small Hepatocellular Carcinoma From Cirrhotic Nodules
Yan Luo

11:07 AM–11:14 AM
2091501 Liver Stiffness Values Measured by Virtual Touch Acoustic Radiation Force Impulse Imaging in Comparison to FibroScan Transient Elastography: A Vietnamese Experience
Liem Thanh Le

11:14 AM–11:21 AM
2101757 Prognostic Value of Gallbladder Wall Thickening In Acute Hepatitis A
Jae-Joon Chung,* Jhi-Hyun Ahn

11:21 AM–11:28 AM
2092212 Role of the Sonographic Hepatorenal Ratio in Diagnosis and Grading of Hepatic Steatosis
Anil Chauhan,* Laith Sultan, Emma Furth, Chandra Sengal

11:28 AM–11:35 AM
2082513 Diagnostic Performance of Transabdominal Ultrasonography in Preoperative Colorectal Cancer in Comparison With Computed Tomography
Mutsumi Nishida,* Susumu Shibasaki, Megumi Sato, Yusuke Kudou, Satomi Omotehara, Tatsunori Horie, Takahito Iwai, Manako Inoue, Shigenori Homma, Norihiko Takahashi, Tatsushi Shimokuni, Hideki Kawamura, Hitoshi Shibuya, Kohsuke Kudo, Akinobu Taketomi, Chikara Shimizu

11:35 AM–11:42 AM
2077859 Ultrasound in Hepatocellular Carcinoma Surveillance: What Is the Quality of Ultrasound, and What Factors Affect Quality?
Yuko Kono,* Kartik Joshi, Katherine Richman, Mary O’Boyle

www.aium.org
11:42 AM–11:49 AM
2064557 Natural History and Clinical Significance of Isolated Biliary Sludge Diagnosed at Outpatient Sonography
Paul Armstrong Hill,* Robert Harris

11:49 AM–11:56 AM
2083791 Interobserver Variation In Ultrasonographic Detection of Gallbladder Diseases
Teresa Abbattista,* Francesco Ridolfi

11:56 AM–12:03 PM
2083667 Online System for Liver Disease Classification in Ultrasound
Jasjit Suri,* Luca Saba, Nilanjan Dey, Sourav Samanta, Siddhartha Sankar Nath, Sayan Chakraborty, Dinesh Kumar, João Sanches

Medical Education

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere III
Moderators: David Bahner, MD, RDMS, Susan Campbell Westerway, PhD

10:45 AM–11:00 AM
Anchor Speaker: David Bahner, MD, RDMS

11:00 AM–11:07 AM
2092331 Grassroots Ultrasound Education: Medical Student Opinions of Ultrasound in Medical Education and Student-Organized Ultrasound Education Initiatives
Jennifer Cotton,* Carolyn Martinez, Matthew Dawson

11:07 AM–11:14 AM
2092280 An Assessment of the Ultrasound Curricula of Osteopathic Emergency Medicine Residencies
Nicholas Avitabile,* Turandot Saul, Nicole Kaban, Sebastian Siadecki, Resa Lewiss

11:14 AM–11:21 AM
2090486 Competency Cut Point Identification Derived From a Mastery Learning Cohort Approach: A Hybrid Model
David Tierney

11:21 AM–11:28 AM
2089700 Integration of Ultrasound in Medical Education in US Medical Schools: A National Survey of Directors
Vi am Dinh, Jasmine Yaxun Fu,* Samantha Lu, Alan Chiem, John Christian Fox, Michael Blaivas, Richard Hoppmann

11:28 AM–11:35 AM
2081046 Competency Development and Complexities of Clinical Integration of Musculoskeletal Sonography by Nonphysician Rehabilitation Providers
Shawn Roll,* Julie McLaughlin-Gray, Gelya Frank

11:35 AM–11:42 AM
2088803 Sonosteps: An Inaugural Report of Australian Sonographer Skill Teaching Practices
Delwyn Nicholls,* Linda Sweet, Amanda Muller, Jon Hyett

11:42 AM–11:49 AM
2063550 Pair Scanning: Integrating the Student Sonographer Into the Work Flow Without Impacting Patient Care
Marcia Docherty, Susan Burnett-Roy,* Samantha May, Kathleen Foran

11:49 AM–11:56 AM
2088750 Teaching Psychomotor Skills Effectively in the 21st Century
Delwyn Nicholls,* Linda Sweet, Amanda Muller, Jon Hyett

11:56 AM–12:03 PM
2090210 Ultrasound Milestones for Physical Medicine and Rehabilitation in Graduate Medical Education
Marcia Bockbrader,* Melanie Kennedy, Alison Nuovo, Rebecca Siegel, Melita Moore, David Way, David Bahner

New Investigator Award Session 1

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere V
Moderators: Phyllis Glanc, MDCM, BSC, FRCPC, Luis Izquierdo, MD, MBA, CPE

10:45 AM–10:55 AM
2076234 Feasibility and Safety of Substituting Lung Ultrasound for Chest X-Ray When Diagnosing Pneumonia in Children: A Randomized Controlled Trial
Ee Tein Tay,* Brittany Jones, James Tsung

10:55 AM–11:05 AM
2070879 Change in Cardiac Axis Between Systole and Diastole in Normal Fetuses and Fetuses With Congenital Heart Defects
Yili Zhao,* Sharon Horton, Elena Sinkovskaya, Małgorzata Mlynarczyk, Letty Romary, Alfred Abuhamad
Impact of Ultrasound on Classification and Management of Crohn’s Disease Patients With Inconclusive Colonoscopy

Rune Wilkens,* Eleonore Lebeuf-Taylor, Kerri Novak, Stephanie Wilson

A Natural History of Twin-Twin Transfusion Syndrome by Quintero Stage

Elaine Duryea,* Sarah Happe, Donald McIntire, Jodi Dashe

Ultrasound-Guided Microwave Ablation in the Management of Inguinal Neuralgia: A Preliminary Study With 1-Year Follow-up

Priti Patil,* Kenneth Lee, Humberto Rosas, Lori Kenyon, Alejandro Munoz Del Rio

Contrast Enhanced Ultrasound in Remote and Under-Resourced Areas: Implementation Challenges and Potential Benefits

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere I

Moderators: J. Brian Fowlkes, PhD, Christian Nolsøe, MD, PhD

This session will update registrants on approved indications for contrast-enhanced ultrasound, and experts will discuss ways to successfully navigate the approval process for ultrasound contrast agents with agencies around the globe.

Contrast Enhanced Ultrasound (CEUS) has been incorporated in clinical practice internationally. CEUS is increasingly used in both cardiac and non-cardiac diagnosis throughout the world and the collective experience of physicians could be particularly important in countries where different applications are being introduced. The regulatory approval of agents is a critical step in the process both in locations where ultrasound is widely used and where ultrasound is the first imaging modality to reach more rural settings. Each of these important stages of CEUS development will be represented in presentations from a group of international speakers.

Ultrasound Contrast Agent Global Approval Status

J. Brian Fowlkes, PhD

Indications for Contrast-Enhanced Ultrasound: Present Status

Christian Nolsøe, MD, PhD

Ultrasound Contrast Agent Approval Complexity: Food and Drug Administration Experience

Ira Krefting, MD

Ultrasound Contrast Agent Approval in Developing Countries: How to Speed Up the Process

Brian Garra, MD

Promotion of Ultrasound Contrast Agents Worldwide: The International Contrast Ultrasound Society Point of View

Michael Main, MD

Importance of World Health Organization Essential Medicines List in Global Public Health

Miriam Mikhail, MD

Successful Ultrasound Contrast Agent Approval: The Brazilian Case

M. Cristina Chammas, MD, PhD

Panel Discussion

Accreditation Tutorial

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Europe 3

Moderator: Therese Cooper, RDMS

Learn about AIUM standards for examination protocols, personnel, quality assurance, record keeping, safety, and physical facilities. This workshop incorporates a hands-on session that shows the individual how to fill out the online application, upload images, and apply for accreditation.

Speakers: Therese Cooper, RDMS, Director of AIUM Accreditation, Jennifer Drabo, BS, RDMS, Clinical Accreditation Coordinator

AIUM Committee Meeting

Presidential Advisory Council

Europe 7

Special Interest Sessions

1:00 PM–3:00 PM

Accreditation Tutorial

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Europe 3

Moderator: Therese Cooper, RDMS

Learn about AIUM standards for examination protocols, personnel, quality assurance, record keeping, safety, and physical facilities. This workshop incorporates a hands-on session that shows the individual how to fill out the online application, upload images, and apply for accreditation.

Speakers: Therese Cooper, RDMS, Director of AIUM Accreditation, Jennifer Drabo, BS, RDMS, Clinical Accreditation Coordinator

Panel Discussion
**Hands-on Workshop: Doppler Techniques and How to Scan—Part 1**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Atlantic Hall A**

**Moderators:** Wui Chong, MD

Topics to be covered during this session include: knobology/image optimization for Doppler ultrasound; liver Doppler techniques; and renal Doppler techniques.

1:00 PM–1:20 PM
Knobology/Image Optimization of Doppler
Salvatore LaRusso, MEd, RDMS, RT(R)

1:20 PM–1:40 PM
Liver Doppler Technique
Wui Chong, MD

1:40 PM–2:00 PM
Renal Doppler Technique
Laurence Needleman, MD

2:00 PM–3:00 PM
Live Scanning

**High-Intensity Therapeutic Ultrasound**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Southern Hemisphere IV**

**Moderator:** Keith Wear, PhD, Zhen Xu, PhD

This session will cover recent advances in high-intensity therapeutic ultrasound, including histotripsy and magnetic resonance–guided focused ultrasound, with applications in the brain and prostate.

1:00 PM–1:30 PM
Histotripsy: Urologic Applications and Translational Progress
William Roberts, MD

1:30 PM–2:00 PM
Therapeutic Ultrasound: Wave Physics and Thermal and Mechanical Bioeffects
Vera Khokhlova, PhD

2:00 PM–2:30 PM
Magnetic Resonance–Guided Focused Ultrasound in the Brain
Stephen Monteith, MD

2:30 PM–3:00 PM
High-Intensity Focused Ultrasound for the Palliation of Pain in Cancer Patients
Gail ter Haar, MA, DSc, MSc, PhD

**How to Do the Biopsy: Hands-on**

**SOLD OUT**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Europe 8**

**Moderator:** Shweta Bhatt, MD

After attending this session, participants will be able to understand prebiopsy preparation, have hands-on experience with the techniques of doing biopsies of soft tissue masses, thyroid nodules, breast masses, the liver, and kidneys, and recognize and manage common complications.

Hands-on Faculty: Nami Azar, MD, Ulises Barajas MD, Shweta Bhatt, MD, Devang Butani, MD, Corinne Deurdulian, MD, Jill Dickerson, RDMS, Vikram Dogra, MD, Hamad Ghazle, EdD, APS, RDMS, Ulrike Hamper, MD, MBA, Mark Lockhart, MD, MPH, Dean Nakamoto, MD, Deborah Rubens, MD, Ruth Schaefer, RDMS, Leslie Scoutt, MD, Ravinder Sidhu, MD, Patricia Soto, RDMS, Hisham Tchelepi, MD

**Perinatal Imaging of the Neck and Spine**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Southern Hemisphere V**

**Moderator:** Dorothy Bulas, MD

The objective of this session is to review common prenatal neck and spine pathologies with postnatal correlation.

1:00 PM–1:40 PM
Prenatal Evaluations of Fetal Neck Masses With Postnatal Corrections
Christopher Cassidy, MD, FRANZCR

1:40 PM–2:20 PM
Paraspinal Masses and Syndromic Spine Anomalies in the Fetus
Judy Estroff, MD

1:20 PM–3:00 PM
Prenatal Evaluation of Spinal Dysraphism With Postnatal Correlation
Dorothy Bulas, MD

**Point-of-Care Assessment of Acute Bowel Pathology**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Southern Hemisphere III**

**Moderator:** Bret Nelson, MD

The objectives of this session are to: (1) discuss the role of ultrasound in assessing acute bowel pathology compared with other imaging modalities; (2) recognize patterns of pediatric bowel pathology; and (3) describe techniques used to improve imaging of the bowel.

1:00 PM–1:05 PM
Introduction
Bret Nelson, MD
1:05 PM–1:30 PM
Diverticulitis, Hernias, and Appendicitis
Jorge Rabat, MD

1:30 PM–2:00 PM
Doppler Evaluation of Mesenteric Ischemia
John Pellerito, MD

2:00 PM–2:30 PM
Emergency Bedside Ultrasound of Bowel Complaints
David Riley, MD

2:30 PM–3:00 PM
Acute Pediatric Bowel Pathology
Rob Goodman, MD

**Skeletal Dysplasias**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere C**

**Moderators:** Janice Byrne, MD, Israel Meizner, MD

The objectives of this session are to: (1) evaluate challenging fetal skeletal dysplasia cases; (2) discuss a stepwise approach in evaluation of fetal skeletal dysplasias; (3) discuss imaging clues and pitfalls in the diagnosis of fetal skeletal dysplasias; and (4) describe complementary imaging as an adjunct to ultrasound in managing difficult cases.

1:00 PM–1:30 PM
Approach to Skeletal Dysplasias
Thomas Shipp, MD, RDMS

1:30 PM–2:00 PM
Perinatal Lethal Skeletal Dysplasias
Janice Byrne, MD

2:00 PM–2:30 PM
Prenatal Diagnosis of Nonlethal Skeletal Dysplasias
Israel Meizner, MD

2:30 PM–3:00 PM
When Is a Short Femur Really Just a Short Femur?
Manijeh Kamyar, MD

1:30 PM–3:30 PM
**AIUM Community Meeting**

**Clinical Standards Committee**

**Europe 1**

3:00 PM–3:45 PM
**Break**

3:00 PM–3:45 PM
**AIUM Community Meetings**

**Emergency and Critical Care Ultrasound**

Earn up to 0.75 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

**Southern Hemisphere III**

**Moderators:** Bret Nelson, MD, RDMS, Eitan Dickman, MD, RDMS, Srikar Adhikari, MD, MS, RDMS, RPVI

Physicians and sonographers who image patients in acute and intensive care environments are welcome to join the Emergency and Critical Care Ultrasound Community. We believe that collaboration between point-of-care ultrasound users, sonographers, and clinicians performing comprehensive emergency imaging is vital to improving the care of our shared patients. A wide range of applications are practiced by our community members, and we welcome input on improving the educational and community activities at the Annual Convention and throughout the year.

**Therapeutic Ultrasound**

Earn up to 0.75 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

**Southern Hemisphere IV**

**Moderators:** Keith Wear, PhD, Maggie Zhang, MD, PhD, Gregory Czarnota, PhD, MD, FRCPC

At this meeting, we will solicit suggestions for Therapeutic Ultrasound Special Interest Sessions for the 2016 Annual Convention. Attendees will vote on suggested Special Interest Sessions. We will appoint moderators for the sessions that receive the highest number of votes.

3:00 PM–4:00 PM
**AIUM Community Meeting**

**Neurosonology**

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

**Europe 7**

**Moderators:** Mary Beth McCarrville, MD, Digna Cabral, BS, Beth Kline-Fath, MD

The Neurosonology Community meeting is open to all individuals (sonographers and physicians) interested in the role of sonography in assessing neurologic conditions. This includes a wide array of conditions and patient populations ranging from topics as divergent as the role of transcranial Doppler ultrasound in the assessment of adults with stroke to ultrasound imaging of the newborn spine. We encourage your participation and appreciate your feedback regarding the value of this year’s neurosonology sessions. We seek your ideas and opinions regarding planning for next year’s Just Images Sessions, Hands-on Sessions, Film Panel Sessions, and Comprehensive Refresher Courses. We welcome the opportunity to collaborate with other communities on topics of shared interest.

www.aium.org
WFUMB Committee Meetings

3:00 PM–4:30 PM
Safety Committee
Europe 6

3:00 PM–5:00 PM
Archieves Committee
Europe 2

3:45 PM–5:00 PM
AIUM Community Meeting

Fetal Echocardiography
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 3-4
Moderators: Liat Gindes, MD, Lynn Simpson, MD, MSc, Anita Moon-Grady, MD, FAAP, FACC, FASE

This year’s meeting of the Fetal Echocardiography Community will cover important topics that you will not want to miss. With the addition this year of wonderful WFUMB International faculty, we are expecting a lively and interactive program. At the meeting, we will be discussing next year’s convention topics and speakers. The time is sure to include continued discussion of the new guidelines for the anatomic survey in low-risk pregnancies, which now recommend the inclusion of outflow tracts along with the 4-chamber view. We also anticipate discussion of the new, revamped AIUM Training Guidelines for Fetal Echocardiography and their impact on accreditation in fetal echocardiography. We welcome anyone with an interest in fetal cardiac imaging, as discussions thrive with input from a variety of perspectives and disciplines. Please join us for this annual meeting of the Fetal Echocardiography Community!

3:45 PM–5:30 PM
AIUM Committee Meeting

Journal of Ultrasound in Medicine
Subspecialty Editors
Americas Seminar Room

3:45 PM–5:30 PM
Just Images Sessions

Challenging Abdominal Vascular Cases, Including Transplants
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere D-E
Moderator: M. Robert De Jong, RDMS, RDCS, RVT

The objectives of this session are to: (1) determine the pathophysiology related to abnormal findings; (2) review the protocol, techniques, and diagnostic criteria for evaluating the pathology; and (3) confirm diagnosis or pathologic prediction based on additional imaging: magnetic resonance imaging, computed tomography, angiography, nuclear medicine, or positron emission tomography.

3:45 PM–4:15 PM
Case Presentations
Margarita Revzin, MD, MS

4:15 PM–4:45 PM
Case Presentations
Melanie Caserta, MD

4:45 PM–5:15 PM
Case Presentations
M. Robert De Jong, RDMS, RDCS, RVT

5:15 PM–5:30 PM
Questions and Answers

Elastography: Just Cases (Liver, Thyroid, Musculoskeletal, and Gynecologic)
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 1-2
Moderator: Richard Barr, MD, PhD

In this session, the learner will see a variety of cases showing both compression strain and shear wave elastography and how the use of elastography is contributing to the overall interpretation.

3:45 PM–4:15 PM
Liver
Masatoshi Kudo, MD, PhD

4:15 PM–4:45 PM
Gynecologic
David Cosgrove, MA, MSc, FRCP, FRCR

4:45 PM–5:15 PM
Musculoskeletal
Patricia Delzell, MD

5:15 PM–5:30 PM
Questions and Answers
3:45 PM–5:30 PM
Film Panel Session

Unknown Cases: Gynecology
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere C
Moderator: Peter Doubilet, MD

This session will present interesting and challenging gynecologic cases.

Panelists: William Brown, MD, Arthur C. Fleischer, MD, Dolores Pretorius, MD, Ian Timor-Tritsch, MD

3:45 PM–5:30 PM
Special Interest Session

High-Frequency Ultrasound Imaging: Dermatologic Applications
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere IV
Moderator: Terri Swanson, MA

Learn about the latest techniques in skin imaging and dermatology.

3:45 PM–3:55 PM
Introduction
Terri Swanson, MA

3:55 PM–4:25 PM
Three-Dimensional Imaging of Pigmented Lesions
Robert Bard, MD

4:25 PM–4:55 PM
Loco-Regional Staging of Cutaneous Melanoma
Orlando Catalano, MD

4:55 PM–5:25 PM
Ultrasound of Non-Melanoma Skin Cancer
Ximena Wortsman, MD

5:25 PM–5:30 PM
Questions and Answers

3:45 PM–5:30 PM
Scientific Sessions

Learn about the latest research in ultrasound in concise oral presentations.
* Indicates presenter.

Basic Science and Instrumentation: Bioeffects and Contrast Agents
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere V
Moderators: Philippe Arbeille, MD, PhD, Keith Wear, PhD

3:45 PM–3:55 PM
2091125 Modified Apodization Functions for Super-Resolution Imaging
Kevin Parker, * Shujie Chen

3:55 PM–4:05 PM
Keith Wear, * Yunbo Liu, Paul Gammell, Subha Maruvada, Gerald Hariss

4:05 PM–4:15 PM
2074546 Tele-Operated Echograph and Motorized Probe Transducer for Remote Echography in an Isolated Environment: Applications in Space Exploration and Isolated Medical Centers
Philippe Arbeille

4:15 PM–4:25 PM
2072837 A Device to Monitor Blood Velocity in Shallow Peripheral Vessels
David Vilkomerson, * Tom Chilpka, John Tumer

4:25 PM–4:35 PM
2092260 Long-Duration Real-time Assessment of Doppler Signals in Upper and Lower Extremities
Inder Raj Singh Makin, * Chandhana Pedapati, Deborah Heath

4:35 PM–4:45 PM
2092029 Obstetric Ultrasound Simulator for Self-Paced Training and Assessment
Peder Pedersen, * Li Liu, Jason Kutarnia, Petra Belady
2088920 Anesthetic Techniques Influence the Induction of Pulmonary Capillary Hemorrhage During Diagnostic Ultrasound in Rats
Douglas Miller,* Chunyan Dou, Krishnan Raghavendran

2089630 Ultrasound-Triggered Oxygen Delivery to Hypoxic Tumors
John Eisenbrey,* Ji-Bin Liu, Maria Stanczak, Lorenzo Albala, Nicholas Daroshefski, David Brown, Xinghua Wang, Shanshan You, Patrick O’Kane, Margaret Wheatley, Flemming Forsberg

**Emergency and Critical Care Ultrasound**
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere II
Moderators: Eitan Dickman, MD, RDMS, Jorge Rabat, MD

3:45 PM–4:00 PM
Anchor Speaker: Jorge Rabat, MD

4:00 PM–4:07 PM
2090531 Development and Analysis of a Mobile Point-of-Care Ultrasound Tracking Tool
David Tierney

4:07 PM–4:14 PM
2085051 Plethoric Inferior Vena Cava on Point-of-Care Ultrasound Predicts Mortality for Dyspneic Patients Presenting to the Emergency Department
Peter Keenan,* Meghan Herbst

4:14 PM–4:21 PM
2077414 Ultrasound Imaging Overlap Between Radiology and Emergency Medicine for Emergency Department Patients: Volume and Billing Implications
Romolo Gaspari,* Morris Hayim, David Blehar

4:21 PM–4:28 PM
2088322 A Meta-analysis of the Diagnostic Accuracy of Ultrasonography for Retained Foreign Bodies in the Skin and Soft Tissue
Joshua Davis, Byron Czerniski, Arthur Au, Isaac Farrell, Srikar Adhikari, Jason Fields*

4:28 PM–4:35 PM
2066744 Bridging the Gap: Hemodynamic Versus Anatomic Transthoracic Echocardiography in the Critically Ill
Jacob Glaser, Sarah Murthi, Thomas Scalea, Cassandra Cardarelli*

4:35 PM–4:42 PM
2061835 The High-Frequency Linear Transducer Improves Detection of an Intrauterine Pregnancy in the First Trimester
Matthew Tabbut,* Devin Harper, Diane Gramer, Robert Jones

4:42 PM–4:49 PM
2090953 Evaluation of Shoulder Injury in the Emergency Department: Utility of Bedside Ultrasound in the Diagnosis of Acute Shoulder Dislocation
Shadi Lahham, Patrick Lenehan, Nathan Lane, Linda Joseph, Melissa Hosseini, Alex Trinh*, J. Christian Fox

4:49 PM–4:56 PM
2090165 The Impact of Ultrasound on Differential Diagnosis in Patients With Undifferentiated Abdominal Pain
Timothy Faust,* Azeem Tajani, Jeannette Goldwaser, Philippe Louissaint, Arthur Au, Jason Fields

4:56 PM–5:03 PM
2089557 A High Body Mass Index Is Strongly Correlated With Decreased Image Quality in Focused Bedside Echocardiography
Sebastian Siadecki,* Sarah Frasure, Turandot Saul, Resa Lewis

5:03 PM–5:10 PM
2086716 This Isn’t Hocus POCUS: Point-of-Care Ultrasound to Diagnose Soft Tissue Neck Masses
Marla Levine,* Alexander Arroyo, Antonios Likourezos, Eitan Dickman

5:10 PM–5:17 PM
2090775 A Prospective Evaluation of Real-time Transverse Tracheal Ultrasound in the Evaluation of Emergent Intubation by Minimally Trained Practitioners
Shadi Lahham, Jamie Baydoun, James Bailey, Nathan Lane, Linda Joseph, Sandy Sandoval, J. Christian Fox, Chanel Fischetti*

5:17 PM–5:24 PM
2066483 Effect of Physiologic Activity on the Optic Nerve Sheath Diameter Estimated by Sonographic Measurement
Kyle Friez,* Matthew Lyon
General Ultrasound: Abdomen and Small Parts

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere III

Moderators: Harald Lutz, MD, Stephanie Wilson, MD

3:45 PM–4:00 PM
Anchor Speaker: Dieter Nürnberg, MD

4:00 PM–4:07 PM
2102315 Surgical and Endoanal Sonographic Assessment of Complex Anal Fistulas in Patients Suspected of Having a Secondary Tract
Hae Jeong Jeon, MD, Hyung Jin Jang, Sung Woo Park, Ung Chae Park, Seong Jun Park

4:07 PM–4:14 PM
2066826 Sonographic Diagnosis of Appendicitis: Standardizing Techniques to Improve Accuracy
Rabia Hasan, MD, Assaf Graft, Vinay Gheyi, Jason Nomura, Reza Daugherty

4:14 PM–4:21 PM
2091550 Ultrasound in Characterizing Parasitic Infestations
Rajas Chaubal, MD, Vivhek Pal

4:21 PM–4:28 PM
2065461 Fluid Overload and Impaired Motility in the Small Intestine Caused by an Activating G ucY2c Mutation
Hilde von Volkmann, MD, Kim Nylund, Rune Transtad, Nils Hovdenak, Trygve Haasen, Torunn Fiskerstrand, Odd Helge Gilja

4:28 PM–4:35 PM
2076366 The Role of Renal Ultrasound in Acute Kidney Injury
Rebecca Gamss, Marjorie Stein, MD, Joanne Rispoli, Hillel Cohen, Jeffrey Roberts, Montreal Koenigsberg, Fernanda Mazzarol

4:35 PM–4:42 PM
2073219 Epididymal Appearance in Congenital Absence of the Vas Deferens
Sudeer Gokhale, MD, Kapil Kochhar

4:42 PM–4:49 PM
2090882 Elastography of Thyroid Nodules: Which Elastographic Index Can Predict Malignancy?
Omar Saito, MD, Cristina Chammas, Sandra Tochetto, Giovanni Cerri

4:49 PM–4:56 PM
2069178 Does the Use of Elastography Decrease the Rate of Nondiagnostic Thyroid Nodule Fine-Needle Aspiration?
Elliot Landau, MD, Sanjiv Baiji, Cheryl Lin, Bina Kvitakovsky, Jonathan Scheiner

4:56 PM–5:03 PM
2090311 Does Oral Radio Contrast Affect the Image Quality of Abdominal Sonography?
Christopher Dang, MD, Eitan Dickman, Lawrence Haines, Mark Tessaro, Pranjal Patel, Maxim Dzeba

Obstetric Ultrasound: General, New Techniques, and Multiple Gestations

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere I

Moderators: Nasrin Benion, RDMS, Aris Papageorghiou, MD

3:45 PM–4:00 PM
Anchor Speaker: Aris Papageorghiou, MD

4:00 PM–4:07 PM
2095248 Effect of Sonographic Maternal Subcutaneous Thickness on Ultrasound Examination of Fetal Anatomy in Twin Gestations
Alison Wortman, MD, Jodi Dashe, Jennifer Hernandez, Kevin Wohley, Joanne Sheffield, Donald McIntire, Diane Twickler

4:07 PM–4:14 PM
2080799 Adverse Pregnancy Outcomes in Twin Pregnancies Reduced to Singleton Pregnancies and Ongoing Twin Pregnancies
Simi Gupta, MD, Nathan Fox, Jessica Feinberg, Chad Klausen, Andrel Rebarber

4:14 PM–4:21 PM
2075277 Standardized Stepwise Approach to the Performance of the Basic Obstetric Ultrasound Examination for the Low-Resource Setting: Prospective Validation
Yili Zhao, MD, Elena Stankovskaia, Lawrence Platt, Rashmi Rao, Alfred Abuhamad

4:21 PM–4:28 PM
2076943 The Role of Ultrasound in the Lebanese Outreach Setting
Reem Abu-Rustum, MD, Fouad Zlate, Sameer Abu-Rustum, Hadi Danaei

4:28 PM–4:35 PM
2095290 Sonographic Interval and Diagnosis of Twin-Twin Transfusion Syndrome
Elaine Duryea, MD, Sarah Happe, Donald McIntire, Jodi Dashe
4:35 PM–4:42 PM
2070168 The Relationship Between Intertwin Membrane Separation and Pregnancy Outcomes
Carolina Bibbo,* Mark Clapp, Daniela Carusi, Carol Benson, Julian Robinson

4:42 PM–4:49 PM
2091256 Fetal Blood Flow Measurement by Angle-Independent 3-Dimensional Sonography in High-Risk Patients
Stephen Pinter,* Oliver Kripfgans, Marjorie Treadwell, Anna Kneitel, J. Brian Fowlkes, Jonathan Rubin

4:49 PM–4:56 PM
2083673 Texture Analysis Using the Tissue Histogram Utility on Fetal Liver and Reference Organs in the Third Trimester
James Maher,* Curtis Boyd, Wainann Bejil, Phillip Watkins, Daniel Castracane

4:56 PM–5:03 PM
2076941 Feasibility of Visualizing the Cerebellum at the Time of Nuchal Translucency Assessment
Reem Abu-Rustum,* M. Fouad Ziade, Assaad Kesrouani, Sameer Abu-Rustum

5:03 PM–5:10 PM
2074928 Determining Fetal Adiposity In Utero Based on Sonographic Measurements of Fetal Buoyancy (Rate of Fetal Rise)
Kathleen Antony,* Dianne Glass, Emily Steinbis, Diana Racusin, Najma Aijiz, Kjersti Aagaard

5:10 PM–5:17 PM
2051099 The Natural History of Spontaneous Chorioamnionic Membrane Separation Diagnosed After 17 Weeks’ Gestation
Carolina Bibbo,* Sarah Little, Jad Bsat, Carol Benson, Rebecca Jessel, Julian Robinson

5:17 PM–5:24 PM
2087422 The Influence of Body Mass Index and Maternal Positioning on Measurement of the Amniotic Fluid Index
Lynn Amicone,* Terry Tressler, Claudia Taboada, Francis Martinez, Yijin Wert

5:24 PM–5:31 PM
2073212 Comparison of Cervical Lengths Using Magnetic Resonance Imaging With Transabdominal and Transvaginal Ultrasound in Pregnant Women
Amirhossein Moaddab,* Amy Mehollah-Ray, Bahram Salmanian, Pardis Hosseinzadeh, Jimmy Espinoza, Wesley Lee, Belfort Michael, Alireza Shamshirsaz

4:00 PM–5:00 PM
AIUM Community Meeting

Pediatric Ultrasound
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Europe 7
Moderators: Harris L. Cohen, MD, Leann Linam, MD, Rob Goodman, MB, BCHir
Come to the Pediatric Ultrasound Community meeting. Help take part in a group that takes care of key problems in the young. Diagnosis affects patients over many years of future life. Pediatric patients, particularly vulnerable to radiation, benefit greatly from modalities that lessen radiation exposure. Ultrasound and its well-known and developing uses are important in accomplishing this goal. Finally, pediatric radiologists are at the heart of many perinatal programs, helping diagnosis, care, and clinician communication on both sides of the boundary of birth . . . dealing with the fetus and neonate, the obstetrician (maternal-fetal medicine), and neonatologist. Come help the community grow and serve.

5:30 PM–6:30 PM
AIUM Community Meetings

Cardiovascular Ultrasound
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Northern Hemisphere D+E
Moderators: Leslie Scoult, MD, Jennifer McDowell, MM, RVT, RDMS, RT, George Berdejo, BA, RVT
The Cardiovascular Ultrasound Community welcomes you to attend a 1-hour planning meeting that will cover topics for the 2016 Annual Convention, as well as possible speakers and moderators. Everyone is invited to attend and will receive CME credit for participation. This community is responsible for addressing vascular imaging from diagnosis to treatment and follow-up after interventions. We will solicit your ideas and suggestions, which will steer the education offered throughout the year. Please join us and get plugged into the AIUM’s Cardiovascular Ultrasound Community!

Dermatologic Ultrasound Interest Group
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Southern Hemisphere IV
Moderator: Ximena Wortsman, MD
All those interested in the new and challenging field of dermatologic ultrasound are invited to participate in the first meeting of the Dermatologic Ultrasound Interest Group. Bring your ideas, your experiences, your challenges, and your suggestions so that we might work on developing educational initiatives.
Elastography

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

Moderators: Richard Barr, MD, PhD, Amy Lex, MS, RT(R), RDMS, Shigao Chen, PhD

The use of elastography in ultrasound imaging continues to grow and evolve every day. We invite you to attend the Elastography Interest Group meeting to share your insights. We will also discuss ways to continue to educate the ultrasound community on the various kinds of elastography, the techniques, and the emerging concepts. Please come to share your ideas on speakers as well as topics for 2016. We look forward to hearing your ideas and questions.

High-Frequency Clinical and Preclinical Imaging

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

Moderators: Ronald Silverman, PhD, Jonathan Mamou, PhD, Terri Swanson, MA

We invite those with an interest in any aspect of high-frequency clinical or preclinical imaging to join colleagues for a discussion about educational needs in this area. We will be accepting recommendations for speakers and course topics for the 2016 Annual Convention, which will be held in Las Vegas, Nevada.

Obstetric Ultrasound

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

Moderators: June Crino, MD, Joan Mastrobattista, MD, Julia Solomon, MD, CM

Obstetrics is an ever-growing field, and imaging is now available to many end users, from our medical, nursing, and sonography students to the practicing clinician. Our goal is "ultrasound first," and our Obstetric Ultrasound Community meeting is an excellent opportunity to network with others and to discuss common issues. Obstetrics remains the predominant area in which ultrasound is used, but the need for education has never been greater. Join us in discussing the hot topics in obstetric ultrasound. We encourage your participation and input for the educational format, topics, and speakers you would most like at the 2016 Annual Convention. We encourage you to send suggestions about course content, speakers, and opportunities for improvement to any of the Obstetric Ultrasound Community's officers via communities@aium.org.

5:45 PM–6:30 PM

WFUMB Committee Meeting

General Assembly

Europe 6
Visit the AIUM Resource Center

- Discover 30 Videos Offering CME Credit
- NEW! Tutorial Videos on AIUM Guidelines
- Preview Videos
- NEW! Streaming Videos
- Discounted Convention Rates
- Learn How to Access Member Benefits

Located in the Registration Area

Hours: Saturday-Tuesday: 8:00 AM–4:30 PM
Wednesday: 8:00 AM–3:00 PM

Save the Dates!
The AIUM is excited to announce three Postgraduate Courses to be held later this year. Mark your calendar today, and look for further details coming soon.

Gynecologic and Early Obstetric Ultrasound: Solving Problems With Imaging
September 25–26, 2015
Four Seasons Hotel
Las Vegas, Nevada
Course Chair: Beryl Benacerraf, MD

Lower Extremity Musculoskeletal Ultrasound
October 10–11, 2015
Colorado Springs, Colorado
Sponsored by the AIUM and United States Olympic Committee

Point-of-Care Ultrasound
November 14–15, 2015
Winston-Salem, North Carolina
Sponsored by the AIUM and Wake Forest School of Medicine

Learn more at www.aium.org
Tuesday, March 24
Convention

Day at a Glance

6:30 AM—4:00 PM  Registration Open
7:00 AM—8:00 AM  Just Images and Comprehensive Refresher Sessions
8:00 AM—9:30 AM  WFUMB Finance Committee Meeting
8:15 AM—10:15 AM  Special Interest Sessions
                  Hands-on Special Interest Session
                  Three- and Four-Dimensional Volume Data Set Manipulation:
                  Gynecology
                  AIUM Community Meeting

9:30 AM—4:30 PM  Exhibit Hall Open
                  E-Posters Open for Viewing

10:15 AM—10:45 AM Refreshment Break in the Exhibit Hall
10:15 AM—12:15 PM AIUM Ultrasound Practice Accreditation Council Meeting
10:30 AM—12:30 PM Three- and Four-Dimensional Volume Data Set Manipulation:
                  Obstetrics
10:45 AM—12:00 PM Special Interest Session
                  Scientific Sessions
                  Film Panel Session
                  AIUM Community Meeting

12:00 PM—1:00 PM  Lunch in the Exhibit Hall
12:15 PM—1:30 PM  AIUM Annual Convention Committee Meeting
1:00 PM—3:00 PM  Special Interest Sessions
                  Three- and Four-Dimensional Volume Data Set Manipulation:
                  Obstetrics
                  Hands-on Special Interest Session

1:00 PM—5:00 PM  WFUMB New Administrative Council Meeting
2:00 PM—4:00 PM  AIUM Executive Committee Meeting
3:00 PM—3:45 PM  Refreshment Break in the Exhibit Hall
                  AIUM Community Meetings
3:30 PM—5:30 PM  Three- and Four-Dimensional Volume Data Set Manipulation:
                  Fetal Echocardiography
3:45 PM—5:30 PM  Special Interest Sessions
                  Comprehensive Refresher Session
                  Scientific Sessions
                  AIUM Community Meetings

4:00 PM—5:00 PM  AIUM Executive Committee and Liaisons Meeting
7:00 PM—11:00 PM  AIUM Leadership Banquet (by invitation only)
Just Images and Comprehensive Refresher Sessions

Anatomic Lessons From Normal Fetal Cardiac Ultrasound (Basic)
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Moderator: Lynn Simpson, MD, MSc

The objective of this session is to review the cardiovascular anatomy that should be assessed during routine assessment of the fetal heart.

7:00 AM–7:15 AM
Four-Chamber View
Tracy Anton, BS, RDMS, RDCS

7:15 AM–7:30 AM
Outflow Tracts
Lynn Simpson, MD, MSc

7:30 AM–7:45 AM
Three-Vessel View
Alfred Abuhamad, MD

7:45 AM–8:00 AM
Systemic and Pulmonary Venous System
Liat Ginded, MD

Clinical Applications of Contrast-Enhanced Ultrasound: Case-Based Approach
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Moderator: Uliike Hamper, MD, MBA

The value of contrast-enhanced ultrasound as an everyday problem-solving tool, particularly for renal and liver masses, will be discussed.

7:00 AM–7:30 AM
Case Presentation
Giovanna Ferraioli, MD

7:30 AM–8:00 AM
Case Presentation
Michelle Robbin, MD, MS

Elastography Research
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Moderator: Richard Barr, MD, PhD

This session will update the learner on the latest research and developments regarding compression strain and shear wave elastography.

7:00 AM–7:15 AM
WFUMB Guidelines
Masatoshi Kudo, MD, PhD

7:15 AM–7:30 AM
Auto Strain Ratio System
Kazutaka Nakashima, MD, PhD

7:30 AM–7:45 AM
Thyroid
Richard Barr, MD, PhD

7:45 AM–8:00 AM
Liver
Giovanna Ferraioli, MD

Three- and Four-Dimensional Ultrasound: Obstetric Applications
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Moderator: Julia Solomon, MD, CM

On completion of this session, participants will be able to describe the principles of volume data set acquisition, understand the various modes of display and formatting of the data set, as well as appreciate the unique role of 3- and 4-dimensional ultrasound in the evaluation of fetal and extrafetal structures.

7:00 AM–7:20 AM
Methods and Modalities for Volume Imaging
Cheryl Vance, MA, RT, RDMS, RVT

7:20 AM–7:40 AM
Three-Dimensional Evaluation of the Fetus
Wesley Lee, MD

7:40 AM–8:00 AM
Four-Dimensional Echocardiography
Julia Solomon, MD, CM
**Topics in Pediatric Gastrointestinal Sonography**

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

**Southern Hemisphere II**
**Moderator: Rob Goodman, MB, BChir**

This session will teach a pediatric gastrointestinal workshop (example: bowel obstruction).

- **7:00 AM–7:20 AM**
  Ultrasound of Appendicitis  
  *Rob Goodman, MB, BChir*

- **7:20 AM–7:40 AM**
  Ultrasound of Intussusception  
  *Susan Back, MD*

- **7:40 AM–8:00 AM**
  Ultrasound of the Neonatal Gastrointestinal Tract  
  *Pallavi Sagar, MD*

**Ultrasound Evaluation of Acute Abdominal and Pelvic Pain**

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

**Southern Hemisphere III**
**Moderator: Srikar Adhikari, MD, MS**

This session will review the role of ultrasound in the evaluation of patients with acute abdominal and pelvic pain.

- **7:00 AM–7:20 AM**
  Acute Pelvic Pain  
  *Beryl Benacerraf, MD*

- **7:20 AM–7:40 AM**
  Acute Abdominal Pain  
  *Adrian Goudie, MD*

- **7:40 AM–8:00 AM**
  Pediatric Abdominal Pain  
  *Brian Coley, MD*

**8:00 AM–9:30 AM**

**WFUMB Committee Meeting**

**Finance Committee**

**Europe 3**

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**8:15 AM–10:15 AM**

**Special Interest Sessions**

**Advanced Fetal Echocardiographic Techniques**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere C**
**Moderator: Helena Gardiner, MD, PhD**

The objective of this session is to present an approach to advanced quantitative examination of the fetal heart when an abnormality of structure or function is suspected.

- **8:15 AM–8:50 AM**
  Z Score: What Does It Mean, and Where to Measure?  
  *Helena Gardiner, MD, PhD*

- **8:50 AM–9:25 AM**
  Cardiac Function Using Traditional Doppler Techniques  
  *Boris Tutschek, MD*

- **9:25 AM–9:55 AM**
  Advanced Mechanics Assessment: Strain and Beyond  
  *Elena Sinkovskaya, MD, PhD, RDMS, RDCS*

- **9:55 AM–10:15 AM**
  Panel Discussion

**Clinical Applications of Ultrasound Contrast: Part 1**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Southern Hemisphere V**
**Moderator: Ulrike Hamper, MD, MBA**

In the United States, ultrasound contrast agents are approved only for cardiac use. This session will review the WFUMB guidelines and explain how we in the United States can incorporate contrast-enhanced ultrasound (CEUS) into daily practice. The value of CEUS as an everyday problem-solving tool, especially for liver and genitourinary imaging, will be discussed.

- **8:15 AM–8:35 AM**
  Update on the WFUMB Guidelines and Use of Contrast-Enhanced Ultrasound Lymphangiography for Sentinel Node Detection in Breast Cancer  
  *David Cosgrove, MA, MSc, FRCP, FRCR*

- **8:35 AM–8:55 AM**
  Update on the Status of Contrast-Enhanced Ultrasound in the United States: How to Integrate Contrast-Enhanced Ultrasound Into Clinical Practice  
  *Richard Barr, MD, PhD*
8:55 AM—9:15 AM
How to Integrate Contrast-Enhanced Ultrasound Into Clinical Practice: A Sonographer’s or Nurse’s Perspective
Cynthia Peterson, MPH, RT, RDMS, RVT

9:15 AM—9:35 AM
Contrast-Enhanced Ultrasound for Liver Imaging
Giovanna Ferraioli, MD

9:35 AM—9:55 AM
Contrast-Enhanced Ultrasound as a Rapid Bedside Problem in Acute Situations
Fabio Piscaglia, MD

9:55 AM—10:15 AM
Contrast-Enhanced Ultrasound for Genitourinary Imaging
Jean-Michel Correas, MD, PhD

Hands-on Scanning: Peripheral Nerves of the Upper Extremity
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Atlantic Hall A: First Level
Moderators: Kenneth Lee, MD, Humberto Rosas, MD

On completion of this session, participants will have gained hands-on experience in scanning the peripheral nerves of the upper extremity.

Hands-on Faculty: Nathalie Bureau, MD, FRCPC; Joseph Craig, MB, ChB, Mary Chiavaras, MD, PhD, FRCPC; Gandkota Girish, MBBS, FRCS, FRCS, FRM, KJ Jacobson, MD, William Madford, RDMS, RMR, Daniel Nissman, MD, MPH, MSEE, Courteney Scher, DO, Daniel Siegal, MD, Colin Strickland, MD, Alberto Simoncini, MD, Ximeña Wortsman, MD, Corrie Yablon, MD

Know When to Hold ‘Em: How to Avoid Complications During Interventional Procedures and How to Manage When You Get Them
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere II
Moderator: Hisham Tchelepi, MD

After attending this session, participants will be able to identify some common as well as uncommon complications during interventional procedures. They will also understand how to avoid possible complications and ways to manage them once the complications do occur.

8:15 AM—8:55 AM
Interventional Ultrasound: How to Avoid Complications
Nabil Azar, MD

8:55 AM—9:35 AM
Interventional Ultrasound: What Not to Do and How to Manage Complications
Dean Nakamoto, MD

9:35 AM—10:15 AM
Contrast-Enhanced Ultrasound in Relation to Interventional Procedures and Complications
Christian Nolsøe, MD, PhD

New Horizons in Critical Care: Part 1
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere I
Moderator: Eltan Dickman, MD, RDMS

Participants will learn about recent advancements in the use of sonography when caring for critically ill patients. Specifically, they will: (1) increase their knowledge of transthoracic echocardiography, which can be used to guide patient management; (2) understand the role of diastology in assessing patients with possible congestive heart failure; and (3) understand the role of transesophageal echocardiography in managing these patients.

8:15 AM—8:50 AM
The Role of Diastology
Andrew Taylor, MD

8:50 AM—9:25 AM
Update in Clinician-Performed Echocardiography
Jorge Rabat, MD

9:25 AM—10:15 AM
Transesophageal Echocardiography in the Intensive Care Unit
Scott Millington, MD

Nonfetal Obstetric Ultrasound
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere D—E
Moderator: Ana Monteagudo, MD, RDMS

The objective of this session is to discuss the sonographic evaluation of nonfetal obstetric structures.

8:15 AM—8:20 AM
Nonfetal Obstetric Ultrasound: Introduction
Ana Monteagudo, MD, RDMS

8:20 AM—8:50 AM
Sonographic Diagnosis and the Morbidly Adherent Placenta
Ana Monteagudo, MD, RDMS

8:50 AM—9:10 AM
Twin Molar Pregmancies: Sonographic Findings and Clinical Presentation
Margaret Dziadosz, MD
9:10 AM–9:30 AM
Beyond the Placenta: Amniotic Fluid, Umbilical Cord, and Cervix
Jonathan Rosner, MD

9:30 AM–10:00 AM
Is It Ovarian Cancer in Pregnancy? Decidualized Endometriomas and Low–Malignant Potential Tumors
Ilan Timor-Tritsch, MD

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

Quantitative Imaging Biomarker Development
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDNS) or ARRT Category A Credits.
Northern Hemisphere E 3-4
Moderators: Paul Carson, PhD, Mark Palmeri, MD, PhD

This session will cover recent advances in quantitative ultrasound, including measurements of blood flow and scattering. Clinical applications in the cervix, liver, prostate, and lymphatic system will be discussed.

8:15 AM–8:20 AM
Introduction
Brian Garra, MD

8:20 AM–8:40 AM
Digital and Tissue-Mimicking Phantom Studies to Achieve Platform-Independent Shear Wave Speed Measurements
Mark Palmeri, MD, PhD

8:40 AM–8:55 AM
Analysis of Human Studies of Sources of Variability in Shear Wave Speed Measurements of Hepatic Fibrosis and Draft Uniform Protocols in Clinical Trials Protocol
Manish Dhyani, MD

8:55 AM–9:05 AM
Discussion

9:05 AM–9:15 AM
Status of Quantitative Imaging Biomarkers Alliance (QIBA) and QIBA/AIUM Efforts on New Biomarkers
Paul Carson, PhD

9:15 AM–9:25 AM
Blood Pressure Measurements
Flemming Forsberg, PhD

9:25 AM–9:40 AM
Ultrasound Spatial Measurement: Evolving from 1D to 3D
Brian Garra, MD

9:40 AM–9:55 AM
Quantitative Contrast Imaging
J. Brian Fowlkes, PhD

9:55 AM–10:00 AM
Opinion on Potential Biomarker Targets
Andy Milkowski, MS

10:00 AM–10:10 AM
Discussion of the AIUM Perspective on Biomarkers
Keith Wear, PhD

Sonographic Evaluation of the Brachial Plexus and Related Problems: Making Sense of the Brachial Plexus
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDNS) or ARRT Category A Credits.
Southern Hemisphere III
Moderator: Michael Di Pietro, MD

In this session, participants will learn to find and identify the brachial plexus and its components and learn uses in preoperative assessment for repair of perinatal brachialpexopathy, in assessing thoracic outlet impingement, and in assessing infant glenoid dysplasia and shoulder subluxation.

8:15 AM–8:55 AM
Pediatric Brachial Plexus Sonography of Perinatal Brachialpexopathy: Direct and Indirect Findings
Michael Di Pietro, MD

8:55 AM–9:35 AM
Brachial Plexus Sonography in Adults: Dynamic Evaluation of Thoracic Outlet Compression Symptoms
Levon Nazarian, MD

9:35 AM–10:15 AM
Sonographic Shoulder Evaluation of Infants With Brachial Plexus Birth Palsy
Andrew Zbojniewicz, MD

3-4D Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDNS) or ARRT Category A Credits.
Moderators: Wesley Lee, MD, Khaled Sakhel, MD

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

GE Healthcare Faculty: Todd Deutch, MD, Lauren Mack, RDMS, MPH
Europe 8

Philips Healthcare Faculty: William Brown III, MD, Elise Housman, BS, RDMS
Europe 7
Ultrasound in Global Health Lecture Series: Part 1
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 1-2
Moderator: Megan Leo, MD, RDMS

This session will discuss the following topics: Training Bachelor’s Degree Sonographers at a WFUMB Center of Excellence: Curriculum Design, Implementation, and Outcomes; Ultrasound in Tropical Infectious Diseases: A Curriculum; and Healthy Pregnancy: A Prenatal Care System in a Backpack to Reduce Maternal Mortality in Developing Countries.

8:15 AM–8:55 AM
Training Bachelor’s Degree Sonographers at a WFUMB Center of Excellence: Curriculum Design, Implementation and Outcomes
Michael Kawooya, MBChB, MMed (Rad), PhD

10:15 AM–10:45 AM
Refreshment Break in the Exhibit Hall
Atlantic Hall B/C • First Level

TUESDAY

Ultrasound in Medical Education
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Europe 6
Moderators: David Bahner, MD, RDMS, John Pellerito, MD, Donald Di Salvo, MD

The Ultrasound in Medical Education Interest Group was developed in 2011 as the AIUM sought to coordinate ultrasound activities within the undergraduate medical education community. This group has developed task forces and a portal as part of the AIUM website to help centralize communication and information about ultrasound in medical student ultrasound education. This group welcomes all AIUM members with an interest in helping continue to shape the landscape of ultrasound in the medical school curriculum. Our group is looking to expand mentorship, coordinate resources, and ramp up the sonographic footprint of ultrasound in medical education. As more programs start to invest in this educational initiative, this group helps coordinate best practices to train the next generation of clinicians able to use ultrasound at the bedside.

10:15 AM–10:45 AM

AIUM Community Meeting

Ultrasound Practice Accreditation Council
Europe 2

10:30 AM–12:30 PM

3-4D Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Moderators: Khaled Sakhel, MD, Wesley Lee, MD

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

GE Healthcare Faculty: Margaret Carr, MD, Lauren Mack, RDMS, MPH
Europe 8
Ultrasound in Undergraduate Medical Education: The Path Forward in Health Care. What Is the Role of Ultrasound in Undergraduate Medical Education?

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere V
Moderators: David Bahner, MD, RDMS, John Pellerito, MD

By the end of this session, participants will be able to articulate the roles of traditional and nontraditional imaging specialists in the care of emergency and primary care patients and how they relate to curricular objectives in undergraduate medical education; summarize the major approaches (comprehensive, focused, aid to procedure, and aid to physical examination) to using ultrasound in the clinical setting and its applicability to teaching future medical students; and compare approaches and visions for future educational directions in promoting ultrasound in medical student curricula.

Panelists: J. Christian Fox, MD, RDMS, John Pellerito, MD, Richard Hoppmann, MD, Donald DiSalvo, MD, Michael Blaivas, MD, David Bahner, MD, RDMS, Michael Kawooya, MBChB, MMed (Rad), PhD

Film Panel Session

Spine-Tingling Cases: Pediatric Spine Cases That Educate, Amaze, and Amuse

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 1-2
Moderator: Michael Di Pietro, MD

The objective of this session is to educate pediatric radiologists and sonographers about spinal pathologies in infants and children and the value of ultrasound in evaluating them.

Questions and Answers
Scientific Sessions

Learn about the latest research in ultrasound in concise oral presentations.
* Indicates presenter.

Breast Ultrasound

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere I

Moderators: Yi-Hong Chou, MD, Gary Whitman, MD

10:45 AM – 11:00 AM
Anchor Speaker: Gary Whitman, MD

11:00 AM – 11:07 AM
2081562 Accuracy of Preoperative Tumor Size Assessment on Mammography, Ultrasound, and Magnetic Resonance Imaging: Is the Accuracy Affected by Breast Density or Tumor Type?
Rebecca Leddy, *Abid Irshad, Madeleine Lewis, Ailie Metcalfe, Pramod Mahalak, Ahad Abid, Susan Ackerman

11:07 AM – 11:14 AM
2056779 Ultrasound Image Classification of Ductal Carcinoma In Situ (DCIS) of the Breast: Analysis of 705 DCIS Lesions—Japan Association of Breast and Thyroid Sonology BC-02 Study
Takanori Watanabe, *Takahiro Yamaguchi, Etsuku Fukuma, Hiroko Tsunoda, Koichi Hirokaga, Kumiko Tanaka, Ryuzo Sekiguchi, EI Ueno, Hidemitsu Yasuda, Miki Yamaguchi, Toshikazu Okuno, Yoich Shiba, Etsuo Takada, Kanako Ban, Toshikazu Ito, Shuichi Nakatani, Masahiko Tsuruoka, Hiroko Kusuyama

11:14 AM – 11:21 AM
2076072 Ductal Carcinoma In Situ (DCIS) Showing Hypoechoic Areas on the Breast Ultrasound: Analysis of 705 DCIS Lesions—Japan Association of Breast and Thyroid Sonology BC-02 Study
EI Ueno, *Takanori Watanabe, Takeki Unemoto, Takahiro Yamaguchi, Hiroko Kusuyama, Yasuhiyo Fujimoto, Jun Ro, Norfuk Obane

11:21 AM – 11:28 AM
2086445 Ultrasonographic Findings of Ductal Carcinoma In Situ of the Breast Presenting as a Solid Mass
Kumiko Tanaka, *Takanori Watanabe, Hiroko Tsunoda, Setsuko Kaoku, Etsuo Tsuchi, Kazukiaka Nakashima, Kiyoko Omoto, Hiroko Kusuyama, Takahiro Yamaguchi

11:28 AM – 11:35 AM
2082556 Characteristics of Ultrasonographic Breast Images of Ductal Carcinoma In Situ With Abnormalities of the Ducts: Japan Association of Breast and Thyroid Sonology BC-02 Study Report
Kanako Ban, *Hiroko Tsunoda, Ryoji Watanabe, Noriko Hiroshi, Hiroko Kusuyama, Tsuyoshi Shina, Takahiro Yamaguchi

11:35 AM – 11:42 AM
2068550 Ultrasonographic Features of Ductal Carcinoma In Situ With a Mixed- Pattern Tumor of the Breast
Koichi Hirokaga, *Takanori Watanabe, Takahiro Yamaguchi, Etsuku Fukuma, Hiroko Tsunoda, Kumiko Tanaka, Etsuo Takada, Ryoji Watanabe, Isamu Morishima, Ayumi Izumori, Hideaki Shirai, Hiroko Kusuyama

11:42 AM – 11:49 AM
2082081 Evaluation of Virtual Touch Imaging Quantification Shear Wave Velocity for Solid Breast Masses
Takanori Watanabe, *Malko Okano

11:49 AM – 11:56 AM
2091149 Stereoscopic Images of Breast Tumors by 3-Dimensional Real-time Tissue Elastography
Etsu Takada, *Sachiyo Konno

Fetal Echocardiography

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere II

Moderators: Reem Abu-Rustum, MD, Simcha Yagel, MD

10:45 AM – 11:20 AM
Anchor Speaker: Simcha Yagel, MD

11:20 AM – 11:27 AM
2076927 Is the Brain-Sparing Effect Described in Fetuses With Congenital Heart Disease Evident in the First Trimester?

11:27 AM – 11:33 AM
2082399 Fetal Myocardial Performance Index During Progression of Labor
Alexis Gimovsky, *Brianne Whitney, Dennis Wood, Stuart Weiner

11:33 AM – 11:40 AM
2087673 Fetal Cardiac Function in Pregnancies Complicated by Preterm Birth
Mert Bahtilar, *Irina Buhimschi, Sarah Cross, Joshua Copel, Catalin Buhimschi
New Investigator Award Session 2

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Americas Seminar Room
Moderators: Phyllis Glanc, MDCM, BSC, FRCPC, Chandra Sehgal, PhD

10:45 AM–10:55 AM
208961  Numerical Modeling of the Dynamic of Ultrasound Contrast Agents in the Vascular Network
Laure Boyer, * Stephen Thomas, Ingrid Leguerney, Nathalie Lassau, Stephanie Pitre-Champagnat

10:55 AM–11:05 AM
2075085  Role of Age in the Negative Chronotropic Effect of Rat Hearts Exposed to Ultrasonic Pulses
Olivia Coiado, * William O’Brien Jr

11:05 AM–11:15 AM
2050797  The Effect of a Simulation Training Package on Skill Acquisition for Duplex Arterial Stenosis Detection
Pasha Normahani, * Usman Jaffer, Prashant Singh, Mohammed Aslam, Nigel Standfield

11:15 AM–11:25 AM
2066135  Three-Dimensional Localization of Specular Reflections Using Volumetric Ultrasound
Raja Sekhar Bandaru, * Anders Sørnes, Jan D’Hooge, Eigil Samset

11:25 AM–11:35 AM
2074055  Collapse Threshold Evaluation of Fluorescein Isothiocyanate Nanoparticles Loaded on Albumin-Coated Microbubbles
Marianne Gauthier, * Jamie Kelly, William O’Brien Jr

Obstetric Ultrasound: Uterus, Cervix, and Placenta

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere D-E
Moderators: Charlotte Henningsen, MS, RT, RDMS, RVT, Joseph Wax, MD

10:45 AM–11:00 AM
Anchor Speaker: Joseph Wax, MD

11:00 AM–11:07 AM
2080079  Does the Presence of “Siudge” Justify the Need for amniocentesis to Rule Out Infection in Patients With a Sonographically Short Cervix?
Fereshteh Boozarjomehri, * Margaret Dziadosz, Morgan Peltier, Fatima Boozarjomehri, Anthony Vintzileos, Ilan Timor-Tritsch, Frederick Naftolin

11:07 AM–11:14 AM
2074213  Placental Location Impacts Diagnostic Accuracy in Cases of a Morbidly Adherent Placenta
Karin Fox, * Bahram Salmanian, Alireza Shamshirsaz, Kathleen Antony, Jerasimos Ballas, Pardis Hosseinzadeh, Amirhossein Moaddab, Wesley Lee, Gary Dilda, Susan Ramin

11:14 AM–11:21 AM
2080274  Is Revision of a Failed Cerclage Advisable in Patients With a Sonographically Short Cervix?
Fereshteh Boozarjomehri, * Margaret Dziadosz, Morgan Peltier, Fatima Boozarjomehri, Anthony Vintzileos, Ilan Timor-Tritsch, Frederick Naftolin

11:21 AM–11:28 AM
2067559  Effectiveness of Cervical Length Measurements After Cerclage Placement
Niamh Condon

11:28 AM–11:35 AM
2080269  Pregnancy Outcome After Placement of a “High” Cerclage by a Single Operator in Second-Trimester Patients With a Sonographically Short Cervix
Fereshteh Boozarjomehri, * Margaret Dziadosz, Morgan Peltier, Marcos Cardoba, Fatima Boozarjomehri, Anthony Vintzileos, Ilan Timor-Tritsch, Frederick Naftolin
11:35 AM–11:42 AM
2086408 The Adjunctive Hemostatic Use of a Foley Balloon Catheter in the Treatment of Cesarean Scars and Cervical Pregnancies
Ilan Timor-Tritsch, * Giuseppe Calli, Ana Monteagudo, Robert Berg, Francesco Fotiani

11:42 AM–11:49 AM
2091721 Cervical Length at 16 And 18 Weeks’ Gestational Age in Extremely and Very Preterm Twin Births
Katherine Hrebinko, * Stephanie Factor, Maria Melia, Meredith Miller, Angela Bianco, Joanne Stone

11:49 AM–11:56 AM
2080099 Does the Presence of Intra-amniotic “Sludge” Affect Pregnancy Outcomes in Patients Undergoing Cerclage for a Short Cervix?
Fereshteh Boozarjomehri,* Margaret Dziadosz, Morgan Petler, Fatima Boozarjomehri, Anthony Ventzileos, Ilan Timor-Tritsch, Frederick Nattolin

Pediatric Ultrasound
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere III
Moderators: Annamaria Deganello, MD, Michael Riccabona, MD

10:45 AM–11:00 AM
Anchor Speaker: Annamaria Deganello, MD

11:00 AM–11:07 AM
2072981 Can Uterine Shape and Size Predict Expected Volumes in Ovarian Torsion? A Pilot Study
Anand Majmudar,* Harris L. Cohen

11:07 AM–11:14 AM
2090707 The Effect of Bedside Ultrasound Assistance on the Proportion of Successful Infant Lumbar Punctures in a Pediatric Emergency Department: A Randomized Controlled Trial
Jeffrey Neal,* Aaron Chen

11:14 AM–11:21 AM
2090842 Feasibility of Superb Microvascular Imaging, an Advanced Noninvasive Ultrasound Technique, to Detect Vescoureteral Reflux in Pediatric Patients Without Bladder Catheterization or Contrast Use
Sara O’Hara,* Hee Kyung Kim, Bokhyung Je, Janet Adams, Steven Kraus

11:21 AM–11:28 AM
2087883 Overly Bright Echo Sign for Hypertrophic Pyloric Stenosis (HPS); Gastric Pneumatosis and Portal Venous Gas in Infants—The Combination Suggests HPS
Ina Radtke,* George Young, Thomas Boulden, Clint Teague, Jeffrey Scugham, Harris L. Cohen

11:28 AM–11:35 AM
2087124 Lying-Down Adrenal Sign: Exceptions to the Rule Among Pediatric Patients
Anand Majmudar,* Harris L. Cohen

11:35 AM–11:42 AM
2091363 Ultrasound Diagnosis of Neonatal Intestinal Atresia
Xiaoman Wang,* Liqun Jia

Therapeutic Ultrasound
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 3-4
Moderators: Eleanor Stride, MD, Keith Wear, PhD

10:45 AM–10:52 AM
2091878 Ultrasound-Microbubble Radiosensitization Followed by Antivascular Maintenance Therapy as a Novel Radiation-Based Tumor Vascular Strategy
Ahmed El Kaffas, Anoja Giles, Gregory Czarnota*

10:52 AM–10:59 AM
2089953 Ultrasound-Enhanced Drug Delivery for Treatment of Parasitic Diseases in the Eye
Abel Rodriguez, Marjan Nabil, Sankara Mahesh, Craig Geist, Vesna Zderic*

10:59 AM–11:06 AM
2088977 Ultrasound-Enhanced Delivery of Anti-inflammatory Ophthalmic Drugs
Marjan Nabil, Sankara Mahesh, Craig Geist, Vesna Zderic*

11:06 AM–11:13 AM
2087996 Coincident Light/Ultrasound Therapy to Treat Bacterial Biofilms
Mark Schafer,* Tessie McNeely

11:13 AM–11:20 AM
2086316 Cellular Dynamics in Microbubble-Mediated Sonoporation: Membrane Blebbing During Recovery
Ruen Leow, Jennifer Wan, Alfred Yu*

11:20 AM–11:27 AM
2089079 Accuracy and Safety of Ultrasound Fusion Versus Computed Tomographically Guided Abdominal Interventions
Yasmine Ahmed,* Salim Abboud, Dean Nakamoto, Nami Azar
11:27 AM–11:34 AM
2090472 Predictive Value of Left Ventricular Microbubble Echogenicity for Treatment Outcome During Myocardial Cavitation-Enabled Therapy
Douglas Miller,* Chunyan Dou, Yiying Zhu, Xiaofang Lu, Gabe Owens, Oliver Kripfgans

11:34 AM–11:41 AM
2089268 Ultrasound Stimulation of Insulin Release From Pancreatic Beta Cells
Ivan Suarez Castellanos, Aleksandar Jeremic, Vesna Zderic*

11:41 AM–11:48 AM
2070151 Twenty-Kilohertz Ultrasound-Assisted Treatment of Chronic Wounds With Concurrent Optic Monitoring: A Human Study
Peter Lewin,* Christopher Bawiec, Youhan Sunny, Michael Weingarten, Joshua Samuel, Leonid Zubkov, David Margolis, Michael Neidrauer

11:48 AM–11:55 AM
2063713 Antenatal Cell-Based Therapy via Ultrasound-Guided Celocentesis: Effect on Maternal Long-term Fertility
Joaquin Santolaya-Forgas,* Isabel Galan, Jacobo Santolaya, Roman Wolf

10:45 AM–12:00 PM
AIUM Community Meeting

Gynecologic Ultrasound
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderators: Misty Blanchette Porter, MD, James Shwayder, MD, JD, Rochelle Andreotti, MD

The Gynecologic Ultrasound Community invites all interested individuals to attend its annual meeting. Participants will have the opportunity to provide feedback on courses offered this year, suggest topics for the upcoming year, meet the community’s officers, and suggest speakers for upcoming meetings.

12:00 PM–1:00 PM
Lunch in the Exhibit Hall
Atlantic Hall B/C • First Level

12:15 PM–1:30 PM
AIUM Committee Meeting

Annual Convention Committee
Europe 1

1:00 PM–3:00 PM
Special Interest Sessions

3-4D Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderators: Wesley Lee, MD, Khaled Sakhel, MD

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

GE Healthcare Faculty: Sharon Abuhamad, RDMS, Julia Solomon, MD, CM

Europe 8

Philips Healthcare Faculty: Jimmy Espinoza, MD

Europe 7

Advanced Liver and Renal Doppler Ultrasound: Part 2
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderator: Leslie Scoult, MD

This session will cover the following topics: portal hypertension; Duplex and color Doppler of portal vein thrombosis; renovascular hypertension, pseudoaneurysms, and arteriovenous fistulas; and renal and liver transplants: a vascular surgeon’s perspective.

1:00 PM–1:25 PM
Portal Hypertension
Leslie Scoult, MD

1:25 PM–1:50 PM
Duplex and Color Doppler of Portal Vein Thrombosis
Fabio Piscaglia, MD

1:50 PM–2:15 PM
Renovascular Hypertension, Pseudoaneurysms, and Arteriovenous Fistulas
Ulrike Hamper, MD, MBA

2:15 PM–2:40 PM
Renal and Liver Transplants: A Vascular Surgeon’s Perspective
Robert Attnip, MD

2:40 PM–3:00 PM
Questions and Answers
Clinical Applications of Ultrasound Contrast: Part 2

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 1-2
Moderator: Arthur C. Fleischer, MD

With an international panel of experts in contrast-enhanced ultrasound (CEUS) presenting, participants will gain insight into the use of CEUS for daily clinical practice. Topics that will be covered include CEUS for renal transplant imaging, inflammatory bowel disease, and applications in gynecology, the intensive care unit, and emergencies, as well as cancer treatment responses.

1:00 PM–1:25 PM
Contrast-Enhanced Ultrasound Imaging of Renal Transplants
Paul Sidhu, MD

1:25 PM–1:45 PM
Contrast Enhanced Ultrasound Imaging in Gynecology
Nitin Chaubal, MD, DMRD, FICR

1:45 PM–2:10 PM
Contrast-Enhanced Ultrasound for Inflammatory Bowel Disease Imaging
Stephanie Wilson, MD

2:10 PM–2:35 PM
Contributions of Contrast-Enhanced Ultrasound Imaging in the Intensive Care Unit and Emergencies
Jean Ayoub, MD, PhD

2:35 PM–3:00 PM
Contrast-Enhanced Ultrasound Imaging of Cancer Treatment Responses
Nathalie Lassau, MD, PhD

Comprehensive Hemodialysis Grafts

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 3-4
Moderator: Leslie Scoult, MD

The objectives of this session are to: (1) describe appropriate preoperative vascular evaluation of patients requiring hemodialysis access procedures; (2) review the protocol, techniques, and diagnostic criteria for evaluating the function of hemodialysis grafts and fistulas; and (3) discuss the technique of intraoperative vascular access for arterial procedures and central venous catheters.

1:00 PM–1:40 PM
Mapping and Anatomy
George Berdejo, BA, RVT

1:40 PM–2:20 PM
Imaging of Complications
Mark Lockhart, MD, MPH

Fetal Arrhythmias (Basic and Advanced)

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere C
Moderator: Mark Sklansky, MD

The objectives of this session are to review methods for assessment of common fetal arrhythmias as well as to provide an advanced basis for definitive diagnosis and treatment.

1:00 PM–1:25 PM
Basic Evaluation Techniques
Mark Sklansky, MD

1:25 PM–1:30 PM
Questions and Answers

1:30 PM–1:55 PM
Benign Arrhythmia
Sarah Chambers, MD

1:55 PM–2:00 PM
Questions and Answers

2:00 PM–2:25 PM
Bradyarrhythmia and Heart Block: What Everyone Needs to Know
Anita Moon-Grady, MD, FAAP, FACC, FASE

2:25 PM–2:30 PM
Questions and Answers

2:30 PM–2:55 PM
Tachyarrhythmia
Helena Gardiner, MD, PhD

2:55 PM–3:00 PM
Questions and Answers

Hands-on Carotid and Transcranial Doppler Ultrasound Techniques

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Atlantic Hall A · First Level
Moderator: Tatjana Rundek, MD, PhD

This session is designed to describe the techniques for extracranial and intracranial vessels.

Hands-on Faculty: Andrei Alexandrov, MD, RVT, Eva Bartels, MD, PhD, John Blebea, MD, MBA, Nelly Campos, MD, RVT, Digna Cabral, BS, CCRP, RVT, Stephanie Coquia, MD, Joshua Cruz, RDMS, RVT, Salvatore LaRusso, MED, RDMS, RT(R), Margarita Revzin, MD, MS, Tatjana Rundek, MD, PhD, Leslie Scoult, MD, Susan Smith, REMS, RDQS, RVT
New Applications of Ultrasound in Emergency and Critical Care Medicine

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere V
Moderators: Oliver Kripfgans, PhD, Philip Levy, MD

The goal of this session is to bridge the gap between the technology and clinical applications of ultrasound in the emergency room and critical care settings. As the use of ultrasound increases, the technology and science must move hand in hand with its clinical application. The evolution of ultrasound is changing the landscape of ultrasound applications in the emergent and critical care settings and greatly expanding the diagnostic and therapeutic potential of ultrasound in adults and children. This session will discuss a new range of applications that ultrasound has in clinical practice, the specific challenges posed, and solutions to the increasing demands for ultrasound with the objective of translating this growing relationship between the quantitative physical properties of ultrasound and its clinical applications to patient care in critical care and emergency medicine.

1:00 PM–1:10 PM
Perspectives on New Applications of Ultrasound in the Emergency and Critical Care Setting: How to Build the Ideal “Ultrasound Team” to Support Your Clinical and Research Endeavors
Philip Levy, MD

1:10 PM–1:30 PM
Use of Ultrasound Elastography in Critical Care Medicine
Romolo Gaspari, MD, PhD, RDMS

1:30 PM–1:50 PM
The Developing Role of Contrast Ultrasound in the Emergency Setting
Jason Castle, MS

1:50 PM–2:10 PM
Ultrasound of the Stomach
Odd Helge Gjøia, MD, PhD

2:10 PM–2:30 PM
High-Frequency Transducers for Point-of-Care Ultrasound Applications: What Is the Optimal Frequency Range?
Srikar Adhikari, MD, MS

2:30 PM–2:50 PM
Decision-Based Imaging Technologies
Glen McLaughlin, PhD

2:50 PM–3:00 PM
Panel Discussion

New Horizons in Critical Care: Part 2

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere II
Moderator: Eitan Dickman, MD, RDMS

Participants will learn about recent advancements in the use of sonography when caring for critically ill patients. Specifically, they will: (1) explore possible roles of contrast-enhanced sonography in critically injured patients; (2) learn how to perform ultrasound-guided nerve blocks; and (3) understand the utility of sonography for confirmation of endotracheal tube placement.

1:00 PM–1:35 PM
Contrast-Enhanced Ultrasonography in Trauma
Harriet Paltiel, MD

1:35 PM–2:10 PM
Ultrasound-Guided Nerve Blocks in Critically Ill Patients
Arun Nagdev, MD

2:10 PM–2:45 PM
Airway Ultrasound
Mark Tessaro, MD

New Ultrasound Applications in Soft Tissue Lesions: From Skin to Muscle

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere III
Moderator: Levon Nazarian, MD

On completion of this session, participants will know when and how to use musculoskeletal ultrasound applications when evaluating the skin, muscles, lumps, and bumps.

1:00 PM–1:40 PM
New and Common Applications of Dermatologic Ultrasound
Ximena Wortsman, MD

1:40 PM–2:20 PM
Ultrasound of Muscle Injuries and Common Pathology
Ximena Wortsman, MD

2:20 PM–3:00 PM
Diagnostic Dilemma: Soft Tissue Hematoma Versus Sarcoma
Jason Wagner, MD
Temas y Controversias en el Ultrasonido Obstétrico (in Spanish)
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderator: Luis Izquierdo, MD, MBA, CPE

Durante este periodo de dos horas presentaremos un conjunto de controversias y problemas obstétricos y su relación al ultrasonido. Le presentaremos a la audiencia la aplicación de las ondas de sonido a la fisiopatología fetal.

1:00 PM–1:05 PM
Introducción
Luis Izquierdo, MD, MBA, CPE

1:05 PM–1:25 PM
Diagnóstico de los Desórdenes de Implantación de la Placenta
Ana Monteagudo, MD, RDMS

1:25 PM–1:45 PM
¿Qué hay de Nuevo en la Insuficiencia Cervical?
Edwin Guzman, MD

1:45 PM–2:05 PM
Transfusión Feto Fetal
Ruben Quintero, MD

2:05 PM–2:20 PM
Correlación Clínica entre el Ultrasonido Prenatal y la Resonancia Magnética, Solo Imágenes
Hernan Muñoz, MD

2:20 PM–2:40 PM
Embriosonografía Normal del Primer Trimester
Ramon Bataglia Araujo, MD

2:40 PM–2:55 PM
Hernia Diaphragmática Congénita
Ruben Quintero, MD

2:40 PM–2:55 PM
Preguntas y Respuestas

Committee Meetings

1:00 PM–5:00 PM
WFUMB New Administrative Council
Europe 3

2:00 PM–4:00 PM
AIUM Executive Committee
Europe 2

3:00 PM–3:45 PM
Refreshment Break in the Exhibit Hall
Atlantic Hall B/C • First Level

3:00 PM–3:45 PM
AIUM Community Meetings

Contrast-Enhanced Ultrasound
Earn up to 0.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderators: Ulrike Hamper, MD, MBA, Arthur C. Fleischer, MD, Andrej Lyschchik, MD, PhD

At the Contrast-Enhanced Ultrasound Community meeting, we will review and evaluate this year’s contrast-enhanced ultrasound sessions and ask for feedback from attendees and suggestions for topics and speakers for next year’s meeting. Anyone with an interest in the application of contrast-enhanced ultrasound is encouraged to attend.
Interventional-Intraoperative Ultrasound

Earn up to 0.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Europe 6

Moderators: Shweta Bhatt, MD, Corinne Deurdolian, MD, Joaquin Santolaya-Forgas, MD, PhD

The Interventional-Intraoperative Ultrasound Community discusses the most pertinent and latest developments in ultrasound-guided interventional procedures and ways to educate attendees on different topics. We will review the courses, topics, and speakers to date for educational impact and discuss relevant topics and possible speakers for the upcoming 2016 Annual Convention and future AIUM publications and webinars.

Sonography

Earn up to 0.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere C

Moderators: Christine Bird, BS, RDMS, RVT, Kathleen Cross, RDMS, RT(R)M(CT), Anju Tomar, BS, RDMS, RVT

Did you know that there are approximately 2500 sonographer members of the AIUM and that this constitutes 26% of the AIUM membership? You are cordially encouraged to join us at the Sonography Community meeting. We will be planning courses for next year’s convention and desire input from as many of you as possible—sonographers and others alike. If you have a conflict at the time of our meeting, please pass your wishes and ideas along to anyone attending or to the Sonography Community leadership or e-mail communities@aium.org.

3:45 PM–5:30 PM

Special Interest Sessions

Abnormal Uterine Bleeding

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderator: Khaled Sakhel, MD

This session will cover the following topics: (1) abnormal uterine bleeding—the evolving role of ultrasound; (2) adenomyosis, uterine fibroids, and sarcoma; and (3) endometrial carcinoma—grade, stage, and extent of myometrial invasion.

3:45 PM–5:45 PM

Abnormal Uterine Bleeding: the Evolving Role of Ultrasound

Misty Blanchette Porter, MD

4:20 PM–4:55 PM

Adenomyosis, Uterine Fibroids, and Sarcoma

Khaled Sakhel, MD

4:55 PM–5:30 PM

Endometrial Carcinoma: Grade, Stage, and Extent of Myometrial Invasion

Dirk Timmerman, MD, PhD

All You Need to Know About Dextro-Transposition of the Great Arteries, Tetralogy of Fallot, and Atrioventricular Septal Defects (Basic)

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderators: Wesley Lee, MD, Simcha Yagel, MD

This session will provide a comprehensive review of 3 common lesions of fetuses/newborns and how/why to detect them prenatally.

3:45 PM–4:40 PM

Embryology, Anatomy, Pathology of TGA

Norman Silverman, MD, DSc

4:00 PM–4:15 PM

D-Transposition of the Great Arteries: Prenatal Diagnosis to Postnatal Care

Gary Satou, MD

4:15 PM–4:30 PM

Embryology, Anatomy, Pathology of AVSD

Norman Silverman, MD, DSc

4:30 PM–4:45 PM

Fetal AV Septal Defects: Imaging Pearls and Clinical Implications From a Pediatric Cardiology Perspective

Miwa Gelger, MD
4:45 PM–5:00 PM
Embryology, Anatomy, Pathology of TOF
Norman Silverman, MD, DSc

5:00 PM–5:10 PM
TOF – Scanning, Perinatal Management
Wesley Lee, MD

5:10 PM–5:30 PM
Three- and Four-Dimensional Ultrasound in the Evaluation of d-TGA Tetralogy of Fallot and AVSDs
Simcha Yagel, MD

Best Teaching Cases I Have Seen
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere I
Moderator: Franklin Tessler, MD, CM

This session will provide a multi-institutional potpourri of best teaching cases.

3:45 PM–4:00 PM
Case Presentations
Monzer Abu-Yousef, MB, BCh, ABR

4:00 PM–4:15 PM
Case Presentations
Corinne Deurdulian, MD

4:15 PM–4:30 PM
Case Presentations
Zoltan Harkanyi, MD

4:30 PM–4:45 PM
Case Presentations
Hanh Nghiem, MD

4:45 PM–5:00 PM
Case Presentations
Franklin Tessler, MD, CM

5:00 PM–5:15 PM
Case Presentations
Mark Lockhart, MD, MPH

5:15 PM–5:30 PM
Questions and Answers

3:45 PM–5:30 PM
Scientific Sessions
Learn about the latest research in ultrasound in concise oral presentations.
* indicates presenter.

Cardiovascular Ultrasound
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere III
Moderators: Cheng-Wen Chiang, MD, RDCS, Joseph Polak, MD, MPH

3:45 PM–4:00 PM
Anchor Speaker: David Evans, PhD, DSc

4:00 PM–4:07 PM
2090238 The Effects of Heart Failure on the Common Carotid Artery Doppler Waveform
Joseph Polak, *Jean Alessi-Chinetti, James Estes, Ayan Patel

4:07 PM–4:14 PM
2090431 Edge-Detected Common Carotid Artery Intima-Media Thickness and Incident Coronary Heart Disease in the Multiethnic Study of Atherosclerosis
Joseph Polak, *Daniel O’Leary

4:14 PM–4:21 PM
2086303 High–Frame Rate Ultrasound Can Dynamically Visualize Fast-Changing Vector Flow Fields in the Carotid Bifurcation
Billy Yiu, Alfred Yu*

4:21 PM–4:28 PM
2083496 Four Different Real-time Image Registration Techniques in Temporal Intravascular Ultrasound Videos: Importance in Cardiovascular Interventional Ultrasound Procedures
Jasjit Suri, *Tadashi Araki, Nobutaka Ikeda, Nilanjan Dey, Sayan Chakraborty, Luca Saba, John Laird, Andrew Nicolaides

4:28 PM–4:35 PM
2083449 Angiographic Coronary Syntax Score and Atherosclerotic Bulb Plaque in Carotid Ultrasound: A Strong Correlation in Diabetic Patients
Jasjit Suri, *Nobutaka Ikeda, Ajay Gupta, Shoab Shafique, Nilanjan Dey, Soumyo Bose, Elisa Cuadrado-Godia, Tadashi Araki, Luca Saba, John Laird, Andrew Nicolaides

4:35 PM–4:42 PM
2090297 Effect of Aortic Stenosis on the Common Carotid Artery Doppler Waveform
Jean Alessi-Chinetti, Joseph Polak, *Ayan Patel, James Estes
Contrast-Enhanced Ultrasound: Part 1

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere IV

Moderators: Arthur C. Fleischer, MD, Ulrike Hamper, MD, MBA, Andrej Lyschik, MD, PhD

3:45 PM–4:00 PM
Anchor Speaker: Nico De Jong, PhD

4:00 PM–4:07 PM
Contrast-Enhanced Ultrasound Versus Computed Tomography in the Follow-up of Abdominal Trauma in a Pediatric and Young Adult Population: How the Desire for Radiation Reduction Affects Common Clinical Practice
Annamarie Deganello,* Eleni Konstantatou, Odysseis Romanos, Maria Sellars, Paul Sidhu

The Clinical Significance of Deep Vein Thrombosis Within the Calf Veins
Rekfy Nicola,* Shirley Chan, Anthony Almudevar, Vikram Dogra

Volumetric Carotid Blood Flow Assessment: A Comparison of Ultrasound and Magnetic Resonance Imaging
Stephen Pinter, Jennifer Jachowski, Jonathan Rubin, J. Brian Fowlkes, John Younger, Oliver Kripfgans*

Contrast-Enhanced Ultrasound: Part 2

4:07 PM–4:14 PM
Contrast-Enhanced Ultrasonography in the Diagnosis of Acute Mesenteric Ischemia
Masaharu Odo,* Katsujii Yanagi, Hitoshi Tsubouchi, Shigeru Katafuchi, Kenichiro Uraguchi

4:14 PM–4:21 PM
Parametric Volumes for Visualizing Breast Lesion Vascularity Using 3-Dimensional Subharmonic Imaging
Anush Sridharan,* John Eisenbrey, Maria Stanczak, Priscilla Machado, Haydee Ojeda-Fournier, Robert Mattrey, Annina Wilkes, Alexander Sevrugov, Kirk Wallace, Carl Chalek, Kai Thomenius, Flemming Forsberg

4:21 PM–4:28 PM
Renal Transplants: Early Postsurgical Contrast-Enhanced Ultrasound in the Detection of Rejection and in Predicting Subsequent Kidney Function
Ben Stenberg,* Andrew McNeill

4:28 PM–4:35 PM
Comparing Quantitative Immunohistochemical Markers of Angiogenesis to Subharmonic Contrast Imaging
Aditi Gupta, Mark Forsberg, Kelly Dulin, Samantha Jaffe, Jaydev Dave, Valgerdur Halldorsdottir, Andrew Marshall, Anya Forsberg,* Priscilla Machado, Traci Fox, Ji-Bin Liu, Flemming Forsberg

4:35 PM–4:42 PM
Contrast-Enhanced Ultrasound Detects Infected Fracture Nonunions
Christian Fischer,* Marc-André Weber, Eva Preuss

4:42 PM–4:49 PM
Contrast-Enhanced Ultrasound Versus Renal Diethylene-Triamine Pentaacetic Acid Scanning in the Detection of Perfusion Defects in Early Renal Transplants: Preliminary Findings
Ben Stenberg,* Andrew McNeill

4:49 PM–4:56 PM
Relationship Between the Effect of Neoadjuvant Chemotherapy in Breast Cancer Patients and Changes in the Time to Peak Using Contrast-Enhanced Ultrasound
Shinsaku Kanazawa,* Yukio Mitsuzuka, Fumi Saito, Tadatoshi Osaku, Yorichika Kubota, Toshhide Ito, Shunsuke Maugoshi, Akemi Kataoka, Hideaki Ogata
2082582 4:56 PM–5:03 PM  Application of Carotid Contrast-Enhanced Ultrasound in Evaluation of Takayasu Arteritis and the Therapeutic Effect  Li-Jun Yuan,* Yan Zhang, Ying Hou, Jia Wang, Tie-Sheng Cao, Yun-You Duan

2073276 5:03 PM–5:10 PM  Use of Nanoengineered Ultrasound Contrast in the Detection of Neural Inflammation  Kevin Volz,* Christopher Kanner, Kevin Evans

2090329 5:10 PM–5:17 PM  Subharmonic Pressure Estimation in Breast Tumors: An In Vivo Calibration Study  Valgerdur Halldorsdottir, Andrew Marshall, Jaydev Dave, Anya Forsberg, Priscilla Machado, Traci Fox, Ji-Bin Liu, Flemming Forsberg*


2084603 4:20 PM–4:30 PM  Distinguishing Viscous From Elastic Properties in Viscoelastic Response Ultrasound  Mallory Selzo, Caterina Gallippi*

5:20 PM–5:30 PM  Local Lung Ventilation Estimation Using Ultrasound Strain Measurements  Jonathan Rubin,* Jeffrey Horowitz, Thomas Sisson, Kang Kim, James Hamilton

2091372 4:40 PM–4:50 PM  Assessment of Cutaneous Sclerotic Disorders Using Acoustic Radiation Force Impulse/Shear Wave Elastographic Imaging  Seung Yun Lee, Adela Cardones, Kathryn Nightingale, Mark Palmeri*

2075089 5:20 PM–5:30 PM  The Microchannel Flow Model for Soft Tissues  Kevin Parker


Elastography
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 1-2
Moderator: Kevin Parker, PhD

TUESDAY

3:45 PM–4:00 PM  Anchor Speaker: Kevin Parker, PhD

4:00 PM–4:10 PM  Three-Dimensional Acoustic Radiation Force Impulse Imaging of Prostate Cancer: Correlation With Whole-Mount Histopathology and Volumetric Comparison To Magnetic Resonance Imaging  Mark Palmeri, Tyler Glass, Zachary Miller, Stephen Rosenzweig, Andrew Buck, John Madden, Melissa Mendez, Thomas Polascik, Kathryn Nightingale*

4:10 PM–4:20 PM  Quantifying the Impact of Elevated Acoustic Output on Shear Wave Imaging  Yufeng Deng,* Mark Palmeri, Ned Rouze, Stephen Rosenzweig, Manal Abdelmalek, Kathryn Nightingale

4:20 PM–4:30 PM  Distinguishing Viscous From Elastic Properties in Viscoelastic Response Ultrasound  Mallory Selzo, Caterina Gallippi*

Musculoskeletal Ultrasound
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 3-4
Moderators: Minna Kohler, MD, Daniel Haun, DC

3:45 PM–4:00 PM  Anchor Speaker: Minna Kohler, MD

4:00 PM–4:07 PM  Transverse Median Nerve Movement According To The Severity Of Carpal Tunnel Syndrome  Gi-Young Park, * Dong-Sun Park

Comparison of Ultrasound-Guided and Fluoroscopy-Guided Biceps Tendon Sheath Injection
Jonelle Petscavage-Thomas,* Cristy Gustas

Morphologic Alteration of the Tendon on Ultrasound After Intrasynovial Injection of Betamethasone for Trigger Digits
Mitsuhiko Takahashi,* Ryosuke Sato, Kenji Kondo, Koichi Saiyo

Ultrasound-Guided Corticosteroid Injection: Efficacy of Treatment in Patients With Moderate to Severe Plantar Fasciitis Who Have Failed Conservative Therapies
Thomas Knudtson,* Kenneth Lee

Quantification of Dry Needling and Posture Effects on Myofascial Trigger Points Using Shear Wave Elastography
Ruth Maher,* Dawn Hayes, Minoro Shinohara

A Pilot Study Assessing the Diagnostic Feasibility of Sonography to Examine the Deep External Rotator Musculature of the Hip in Asymptomatic Participants
Patrick Battaglia,* Aaron Welk, Daniel Haun, Ross Mattox, Jeffrey Kamper, Norman Kettner

Usefulness of Ultrasound in Diagnosis of Transphyseal Separation of Distal Humeral Epiphysis in Neonates
Alpana Joshi

Ultrasound-Guided Hydrodissection of Peripheral Nerves Using Different Solutions, Including Platelet-Rich Plasma, as a Treatment Option for Chronic Musculoskeletal Pain That Has Failed Manual Therapy
King Hei, Stanley Lam*

Reliability of a Proposed Ultrasonographic Grading Scale for the Severity of Primary Knee Osteoarthrits
Mohamed a Mortada,* Ayman Zeid, Mirvat Abd El-Hamid, Nilly Ezzeldein

Sonoelastographic Findings According to Spasticity of Elbow Flexor in Poststroke Hemiplegia
Gi-Young Park,* Dong-Rak Kwon
### Basic Science and Instrumentation Meetings

**Basic Science and Instrumentation**

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Americas Seminar Room**

**Moderators:** Keith Wear, PhD, Michael Oelze, PhD, Caterina Gallippi, PhD

The Basic Science and Instrumentation Community holds a meeting during each Annual Convention. That meeting is open to everyone and always benefits from the active participation of the audience. One major focus of the meeting is to lay plans for focused sessions to be held at the following year’s Annual Convention. All members of the audience are encouraged to offer suggestions and to engage in a discussion regarding the strengths and timeliness of the proposals presented. After that discussion, a list of potential topics is selected, and the audience votes to rank order those topics. The highest ranking of these are then submitted to the Annual Convention Committee for consideration. Other matters of importance to the Basic Science and Instrumentation Community are also discussed, with opportunities for members of the audience to offer their comments.

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### Musculoskeletal Ultrasound

**Musculoskeletal Ultrasound**

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Europe 6**

**Moderators:** Kenneth Lee, MD, Nathalie Bureau, MD, FRCP(C), Joseph Craig, MB ChB

Anyone using ultrasound to address musculoskeletal issues is encouraged to attend this meeting of the Musculoskeletal Ultrasound Community. It’s an opportunity to discuss issues affecting physicians and sonographers, suggest ways to address educational needs, and recommend course topics and speakers for 2016.

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### AIUM Committee Meeting

**AIUM Committee Meeting**

**Executive Committee and Liaisons Meeting**

**Europe 2**

**AIUM Leadership Banquet (by invitation only)**

**Northern Hemisphere V**

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**AIUM Leadership Banquet (by invitation only)**

**Northern Hemisphere V**
Wednesday, March 25
Convention

Day at a Glance

7:00 AM–3:30 PM  Registration Open
7:00 AM–8:00 AM  Just Images and Comprehensive Refresher Sessions
7:30 AM–11:00 AM  AIUM Board of Governors Meeting
8:15 AM–10:15 AM  Special Interest Sessions
                      Hands-on Special Interest Session
9:30 AM–1:00 PM  Exhibit Hall Open
                      E-Posters Open for Viewing
10:15 AM–10:45 AM  Refreshment Break in the Exhibit Hall
10:45 AM–12:00 PM  Special Interest Session
                      Film Panel Session
                      Just Images Session
                      Scientific Sessions
12:00 PM–1:00 PM  Lunch in the Exhibit Hall
1:00 PM–3:00 PM  Special Interest Sessions
3:00 PM  Adjournment

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#aium15
Just Images and Comprehensive Refresher Sessions

Invasive Fetal Therapy: Current State of the Art
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
**Moderator: Timothy Crombleholme, MD**

On completion of this session, participants will understand which fetal conditions are amenable to invasive therapy.

- **7:00 AM–7:15 AM**
  Status of Fetal Cardiac Intervention
  Wayne Tworetzky, MD

- **7:15 AM–7:30 AM**
  Future of Prenatal Myelomeningocele Repair
  Jose Peiro, MD

- **7:30 AM–7:45 AM**
  Tracheal Balloon Occlusion for High-Risk Congenital Diaphragmatic Hernia
  Anthony Johnson, DO

- **7:45 AM–8:00 AM**
  Adjunctive Medical Treatment of Twin-Twin Transfusion Syndrome
  Timothy Crombleholme, MD

Just Images—Gynecology: Unknown Cases
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
**Moderator: Jodi Lerner, MD**

This session will show unique unknown gynecologic cases.

- **7:00 AM–7:30 AM**
  Case Presentation
  Ramon Bataglia Araujo, MD

- **7:30 AM–8:00 AM**
  Case Presentation
  Margarita Revzin, MD, MS

Problem-Oriented Symptom-Based Diagnostics in Pediatrics: The Role of Ultrasound
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
**Northern Hemisphere E 1-2**
**Moderator: Harris L. Cohen, MD**

The objective of this session is to review methods and thoughts in imaging for various pediatric symptoms, including vomiting, pelvic pain in adolescents, and abdominal pain in a child.

- **7:00 AM–7:20 AM**
  Vomiting in the Neonate
  Michael Riccabona, MD

- **7:20 AM–7:40 AM**
  Upper Abdominal Pain in the Child
  Harriet Patlief, MD

- **7:40 AM–8:00 AM**
  Right Lower Quadrant/Pelvic Pain in the Adolescent
  Sarah O’Hara, MD

Rheumatologic Applications of Ultrasound: Rheumatoid Arthritis From A to Z
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
**Northern Hemisphere E 3-4**
**Moderator: Joseph Craig, MB, ChB**

On completion of this session, participants will know when and how to use musculoskeletal ultrasound for rheumatologic disease such as rheumatoid arthritis.

- **7:00 AM–7:30 AM**
  Clinical Considerations in Rheumatoid Arthritis
  Minna Kohler, MD

- **7:30 AM–8:00 AM**
  Ultrasound Techniques and Interventions in Rheumatoid Arthritis
  Courtney Scher, DO

7:30 AM–11:00 AM
AIUM Committee Meeting

Board of Governors Meeting
Europe 8
8:15 AM–10:15 AM
Special Interest Sessions

**Acute Care in Gynecology**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere D-E
Moderator: Rochelle Andreotti, MD

This session will cover the following topics: (1) classifying common ovarian cysts you might see in the emergency room; (2) diagnosis and treatment of pelvic inflammatory disease and pelvic abscesses; and (3) ovarian and adnexal mass torsion.

8:15 AM–8:55 AM
Classifying Common Ovarian Cysts You Might See in the Emergency Room
Jodi Lerner, MD

8:55 AM–9:35 AM
Evaluation and Management of Pelvic Inflammatory Disease: The Role of Imaging
Rochelle Andreotti, MD

9:35 AM–10:15 AM
Adnexal Torsion
William (Buzz) Brown III, MD

**Basic Science and Preclinical Applications of Ultrasound Contrast**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere IV
Moderator: Andrej Lyschik, MD

This session will cover the following areas: (1) molecular imaging with contrast-enhanced ultrasound (CEUS); (2) ultrasound acoustic angiography; (3) sonothrombolysis with microbubbles; (4) subharmonic CEUS; and (5) therapeutic applications of CEUS.

8:15 AM–8:45 AM
Ultrasound Acoustic Angiography
Paul Dayton, PhD

8:45 AM–9:10 AM
Sonothrombolysis
Christy Holland, PhD

9:10 AM–9:45 AM
Subharmonic Contrast-Enhanced Ultrasound
John Eisenbrey, PhD

9:45 AM–10:15 AM
Therapeutic Applications of Contrast-Enhanced Ultrasound
Charles Caskey, PhD

**Hands-on Ultrasound in Pediatric Diagnosis and Therapy**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Atlantic Hall A ∙ First Level
Moderator: Patrick Warren, MD

The objective of this session is to teach learners how to perform ultrasound-guided biopsy, joint injections, cyst aspiration, abscess drainage, and foreign body removal.

Hands-on Faculty: Michael Di Pietro, MD, Humberto Rosas, MD, Patrick Warren, MD

**Noninvasive Prenatal Testing: What It Can and Cannot Do**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere C
Moderator: Mark Evans, MD

This session will cover current molecular technology and methods for noninvasive prenatal testing (NIPT), address the benefits and limitations of NIPT, and outline appropriate indications for the utility of NIPT in accordance with professional organizational guidelines.

8:15 AM–8:55 AM
What Noninvasive Prenatal Screening Can Do
Mathias Ehrich, MD

8:55 AM–9:35 AM
The Role of Biochemistry and Nuchal Translucency
David Krantz, MA

9:35 AM–10:15 AM
What Noninvasive Prenatal Screening Cannot Do
Mark Evans, MD

**Pediatric Applications of High-Frequency Ultrasound**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 3-4
Moderator: Ronald Silverman, PhD

Learn about high-resolution imaging of neonates.

8:15 AM–9:55 AM
Pediatric Applications of High-Frequency Ultrasound
Roxana Ursea, MD

9:55 AM–10:00 AM
Pediatric Applications of High-Frequency Ultrasound
Daniel King-Wai Low, MD

10:00 AM–10:15 AM
Questions and Answers
Renal Artery and Mesenteric Doppler Ultrasound

The objectives of this session are to describe the Doppler examination technique, describe the diagnostic criteria for renovascular hypertension and chronic mesenteric ischemia and their mimics, discuss when to intervene and how, and finally describe the role of ultrasound after intervention.

8:15 AM–8:50 AM
Renal Vascular Hypertension
Stephanie Coquia, MD

8:50 AM–9:25 AM
Revascularization for Renovascular Hypertension
Murray Shames, MD

9:25 AM–9:55 AM
Mesenteric Ischemia
Magarita Revzin, MD, MS

9:55 AM–10:15 AM
Panel Discussion

Ultrasound in Undergraduate Medical Education: The Next Frontier

By the end of this session, participants will be able to (1) envision how the technological breakthrough of miniaturization and image quality has had and will have an effect on ultrasound practice in modern medicine; (2) understand the impact of this tool in helping the future clinician have the ability to use ultrasound to diagnose and treat common clinical problems (yet what is the quality of the education?); (3) describe areas in the medical education curriculum where ultrasound can be synchronized with existing goals and objectives in the preclinical and clinical experiences, specifically, anatomy, physiology, pathology, clinical rotations, procedural skills, and cadaveric simulations; (4) distinguish the essential elements in creating a hands-on experience with near-peers, peer-to-peer, faculty-to-peer, and other hands-on interactions for teaching ultrasound; (5) examine the impact ultrasound can have in austere environments across the world as well as the first world due to more research and interest in this topic area; (6) examine how interest groups at medical schools can be focal points to research and collaboration; and (7) determine the role of the medical student in this process of ultrasound.

8:15 AM–8:40 AM
Envision How the Technological Breakthrough of Miniaturization and Image Quality Has Had and Will Have on Ultrasound Practice in Modern Medicine
Barry Knapp, MD, RDMS

8:40 AM–9:00 AM
Medical Education Curriculum Where Ultrasound Can Be Synchronized With Existing Goals and Objectives in Preclinical and Clinical Experiences
Richard Hoppmann, MD

9:00 AM–9:25 AM
Distinguishing the Essential Elements in Creating a Hands-on Experience With Near-Peer, Peer-to-Peer, Faculty-to-Peer, and other Hands on Interactions for Teaching Ultrasound
J. Christian Fox, MD, RDMS

9:25 AM–9:50 AM
Examine the Impact Ultrasound Can Have in Austere Environments Across the World as Well as the First World Due to More Research and Interest in This Topic Area
Luca Neeri, MD

9:50 AM–10:15 AM
Examine How Interest Groups at Medical Schools Can Be Focal Points for Research and Collaboration: What Is the Role of the Medical Student in This Ultrasound Process?
Jennifer Cotton

9:50 AM–10:15 AM
Examine How Interest Groups at Medical Schools Can Be Focal Points to Research and Collaboration: What Is the Role of the Medical Student in This Ultrasound Process?
Chanel Fischetti

Check out the AIUM’s blog “The Scan” at www.aium.org
Ultrasound of the Breast: Screening, BI-RADS, and Challenging Cases

Earn up to 2 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Northern Hemisphere E 1-2
Moderator: Susan Ackerman, MD

The session is designed to discuss the following areas: screening breast ultrasound: what you need to know; multimodality approach to problem solving for lesions; American College of Radiology Breast Imaging Reporting and Data System (BI-RADS) for breast ultrasound; and challenging breast ultrasound cases (audience participation).

8:15 AM–8:40 AM
Screening Breast Ultrasound: What You Need to Know
Stamatia Destounis, MD

8:40 AM–9:05 AM
Multimodality Approach to Problem-Solving Lesions
Madelene Lewis, MD

9:05 AM–9:30 AM
American College of Radiology Breast Imaging Reporting and Data System for Breast Ultrasound
Susan Ackerman, MD

9:30 AM–10:15 AM
Challenging Breast Cases (Audience Response)
Abid Irshad, MBBS

10:15 AM–10:45 AM
Refreshment Break in the Exhibit Hall
Atlantic Hall B/C • First Level

10:45 AM–12:00 PM
Special Interest Session

Ultrasound in the Critically Ill Child

Earn up to 1.25 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Southern Hemisphere I
Moderator: Brian Coley, MD

This session is designed to provide information and techniques for ultrasound evaluation in the critically ill, explaining ultrasound in pediatric critical care.

10:45 AM–11:00 AM
Ultrasound in Pediatric Resuscitation
David McLario, MD

11:00 AM–11:15 AM
Line and Tube Complications
Rob Goodman, MB, BChir

11:15 AM–11:30 AM
Bowel Pathology
Eva Rubio, MD

11:30 AM–11:45 AM
Acute Renal Failure
Lynn Fordham, MD

11:45 AM–12:00 PM
Chest and Lung
James Tsung, MD, MPH

10:45 AM–12:00 PM
Film Panel Session

Obstetric Film Panel: Interesting Prenatal Cases With Neonatal Follow-up

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere C
Moderator: Janice Byrne, MD

The objectives of this session are to: (1) evaluate new and challenging obstetric cases in ultrasound; (2) receive audience responses for diagnosis; (3) discuss differential diagnosis and management of challenging cases; and (4) describe the use of magnetic resonance imaging as an adjunct to ultrasound in managing difficult fetal cases.

Panelists: Timothy Canavan, MD, MSc, Joan Mastrobattista, MD, Mary O’Day, MD, Isabelle Wilkins, MD

10:45 AM–12:00 PM
Just Images Session

Elastography: Breast Images

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 3-4
Moderator: Richard Barr, MD, PhD

The learner will see a variety of cases showing both compression strain and shear wave elastography and how the use of elastography is contributing to the overall interpretation.

10:45 AM–11:10 AM
Case Presentation
Richard Barr, MD, PhD

11:10 AM–11:35 AM
Case Presentation
Kazutaka Nakashima, MD, PhD

11:35 AM–12:00 PM
Case Presentation
Yi-Hong Chou, MD
Scientific Sessions
Learn about the latest research in ultrasound in concise oral presentations.
* indicates presenter.

Basic Science and Instrumentation: Tissue Characterization
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDS) or ARRT Category A Credits.
Southern Hemisphere IV
Moderators: Peter Lewin, PhD, Andrzej Nowicki, PhD

10:45 AM–12:00 PM

10:45 AM–10:55 AM
2089818 Characterization of Solid Tumor Microstructure Using High-Frequency Quantitative Ultrasound
Aiguo Han,* William O'Brien Jr

10:55 AM–11:05 AM
2086603 Fast and Slow Wave Detection in Cancellous Bone In Vitro Using Band-Limited Deconvolution and Prony's Method
Keith Wear,* Yoshiki Nagatani, Katsunori Mrzuno, Mami Matsukawa

11:05 AM–11:15 AM
2084792 Investigation of the Effects of Myocardial Anisotropy for Shear Wave Elastography Using Acoustic Radiation Force and Harmonic Vibration
Matthew Urban,* Bo Qiang, Ivan Nenadic, Shigao Chen, James Greenleaf

11:15 AM–11:25 AM
2083648 Robust and Ultrafast Detection of Shear Wave Motion Using Coded Excitation
Pengfei Song,* Matthew Urban, Armando Manuca, James Greenleaf, Shigao Chen

11:25 AM–11:35 AM
2089030 Do Ultrasound Scanners Adequately Present the "Image Contrast Frequency" to the User?
Thaddeus Wilson,* James Zagzebski, Harris L. Cohen

11:35 AM–11:45 AM
2088809 Clinical Validation of the Statistical Analysis of Radiofrequency Ultrasound Signals in Differentiation of Breast Lesions
Andrzej Nowicki,* Katarzyna Dobruch-Sobczak, Hanna Piotrzkowska-Wroblewska, Jerzy Lliniewski, Barbara Gambin, Katarzyna Roszkowska, Eryk Chrapowicki

Contrast-Enhanced Ultrasound: Part 2
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDS) or ARRT Category A Credits.
Southern Hemisphere V
Moderators: David Cosgrove, MA, MSc, FRCP, FRCR, Paul Dayton, PhD

10:45 AM–11:00 AM
Anchor Speaker: David Cosgrove, MA, MSc, FRCP, FRCR

11:00 AM–11:07 AM
2083783 The Two Faces of Noninvasive Diagnosis of Liver Disease Severity: Correlation Between Liver Stiffness and Hepatic Mean Arrival Times
Teresa Abbattista,* Francesco Ridolfi

11:07 AM–11:14 AM
2090095 Differential Diagnosis Between Benign and Malignant Gallbladder Diseases With Contrast-Enhanced Ultrasound
Liping Liu,* Yulang Zhao, Yang Zhang, Jingjing Liu

11:14 AM–11:21 AM
2090059 Subharmonic and Endoscopic Contrast Imaging of Pancreatic Masses
Flemming Forsberg,* Maria Stanczak, David Loren, Traci Fox, Thomas Kowalski, Ali Siddiqui, Cynthia Miller, Ji-Bin Liu, John Eisenbrey

11:21 AM–11:28 AM
2091090 Study on Intrahepatic Hemodynamic Changes Before and After Surgery by Contrast-Enhanced Ultrasound in Patients With Portal Hypertension
Shaoshan Tang

11:28 AM–11:35 AM
2085396 Contrast-Enhanced Ultrasound as a Biopsy Guidance Tool for Small Liver Tumors
Dirk Becker,* Axel Wahländer, Andreas Pohlmann

11:35 AM–11:42 AM
2084977 Positron Emission Tomographically/Computed Tomographically Guided Contrast-Enhanced Ultrasound of Colorectal Metastasis and Subsequent Fusion-Guided Microwave Ablation
Michael McNeill

11:42 AM–11:49 AM
2077838 Focal Solitary Necrotic Nodule of Fatty Liver: Characterization Using Conventional and Contrast-Enhanced Ultrasoundography
Li-Ping Liu,* Xiao-Ling Yu, Ping Liang, Zhan-Bo Wang, Xin Li
Fetal Ultrasound and Magnetic Resonance Imaging: Collision Course or Superhighway?
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere C
Moderators: Christopher Cassady, MD, FRANZCR, Wesley Lee, MD

The objectives of this session are to: (1) evaluate challenging obstetric cases in which magnetic resonance imaging (MRI) and prenatal ultrasound are used in case diagnoses; (2) discuss a stepwise approach in evaluation of challenging fetal cases; (3) discuss imaging clues and pitfalls in common fetal abnormalities and when to refer a patient for fetal MRI; and (4) describe pros and cons of the use of MRI as an adjunct to ultrasound in managing difficult fetal cases.

1:00 PM–1:30 PM
Brain Abnormalities
Beth Kline-Fath, MD

1:30 PM–2:00 PM
Fetal Magnetic Resonance Imaging: Beyond SNC
Hernan Munoz, MD

2:00 PM–2:30 PM
Accreta, Neck, and Congenital Diaphragmatic Hernia
Christopher Cassady, MD, FRANZCR, Wesley Lee, MD

2:30 PM–3:00 PM
Fetal Abdomen/Pelvis
Diane Twickler, MD

Musculoskeletal Ultrasound: Transition From Adult to Pediatrics
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere II
Moderator: Michael Di Pietro, MD

The objective of this session is to teach adult musculoskeletal techniques that can be applied in children to identify anatomy and pathology.

1:00 PM–1:10 PM
“Adult Musculoskeletal Ultrasound” in a Pediatric World
Michael Di Pietro, MD

1:10 PM–2:00 PM
Elbow and Ankle: Reflecting on Anatomy and Function
J. Antonio Bouffard, MD

2:00 PM–2:50 PM
Sports-Related Pediatric Extremity Pathology
Andrew Zbojniewicz, MD

2:50 PM–3:00 PM
Questions and Answers
Transcranial and Duplex Doppler Interpretation and Operating Room Applications
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Moderator: Michele H. Johnson, MD

After this session, participants will be able to describe and discuss the indications for and interpretation of carotid and transcranial Doppler ultrasound studies.

Panelists: John Blebea, MD, MBA, Joshua Cruz, RDMS, RVT, Michele H. Johnson, MD, Salvatore LaRusso, Med, RDMS, RT(R), Leslie Scoul, MD

Ultrasound Evaluation of Vascular Emergencies
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 1-2
Moderator: Srikar Adhikari, MD, MS

This session will review the role of ultrasound evaluation in a variety of vascular emergencies.

1:00 PM–1:35 PM
Sonographic Findings of Vascular Emergencies
John Pellerito, MD

1:35 PM–2:10 PM
Point-of-Care Vascular Ultrasound in Emergency and Critical Care
Michael Blaivas, MD

2:10 PM–2:45 PM
Vascular Scanning Techniques: Pearls and Pitfalls
M. Robert De Jong, RDMS, RDQS, RVT

2:45 PM–3:00 PM
Panel Discussion

Ultrasound of the Gallbladder and Biliary Tract
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere IV
Moderator: Shweta Bhatt, MD

This session will cover the following topics: basic gallbladder imaging; advanced gallbladder imaging; and benign and malignant diseases of the bile ducts.

1:00 PM–1:35 PM
Basic Gallbladder Imaging
Sanjiv Bajaj, MD

1:35 PM–2:10 PM
Advanced Gallbladder Imaging
Kathryn Robinson, MD

2:10 PM–2:45 PM
Benign and Malignant Diseases of the Bile Ducts
Shweta Bhatt, MD

2:45 PM–3:00 PM
Questions and Answers
E-Posters

E-Posters are located in the Exhibit Hall; Booth 541

E-Poster Viewing Hours:
Sunday, March 22  11:30 AM–4:00 PM
Monday, March 23  9:30 AM–1:30 PM
Tuesday, March 24  9:30 AM–4:30 PM
Wednesday, March 25  9:30 AM–1:00 PM

* indicates presenter.

E–Poster Awards:
First, second, and third-prize awards, as well as honorable mentions, will be indicated by ribbon icons on Sunday, March 22, after 5:00 PM. Awards are based on scientific content and visual effects.
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<th>Title</th>
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<td><strong>Basic Science and Instrumentation: Instrumentation</strong></td>
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<tr>
<td>2078132 Process and Quality Improvement: Collaboration Between Hospital Departments and Medical Device Manufacturers</td>
<td>Brendan Mein,* Jonathan Burdach, Ronald Benzie, Lindy Ryan</td>
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<td>2078655 High-Frequency Ultrasound Imaging of Drosophila for Cardiac Research Applications</td>
<td>John Eisenbrey,* Ji-Bin Liu, Traci Fox, Flemming Forsberg, Shubha Rao, Harpreet Singh</td>
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<td><strong>Basic Science and Instrumentation: Tissue Characterization/Quantitative Ultrasound</strong></td>
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<td>2085764 What Is Anatomic Intelligence?</td>
<td>Ben Stenberg,* Andrew McNeill</td>
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<td><strong>Cardiovascular Ultrasound: Abdominal</strong></td>
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<td>2090730 Contrast-Enhanced Sonography in the Assessment of Abdominal Vein Thrombosis in the Cancer Patient: Pictorial Review</td>
<td>Orlando Catalano,* Antonio Nunziata, Sergio Setola, Paolo Vallone, Antonella Petrillo</td>
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<td>2088402 An Early Start to Echocardiography: Does a First-Year Medical Student Cardiac Ultrasound Workshop Help Students’ Self-Assessed Understanding of the Cardiac Physical Examination?</td>
<td>Frances Youn,* Amy Sanghvi</td>
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<td><strong>Cardiovascular Ultrasound: Cardiac</strong></td>
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<td>2087061 Comparison of Contrast-Enhanced Ultrasonography and Computed Tomography in Evaluation of the Immediate Treatment Response After Radiofrequency Ablation of Malignant Hepatic Tumors</td>
<td>Young Hwan Lee,* Han Ah Lee, Taeyeong Heo, Kwon-Ha Yoon</td>
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<td>2088402 Effects of Needle and Catheter Size on Commercially Available Ultrasound Contrast Agent Enhancement In Vitro</td>
<td>John Eisenbrey,* Annemarie Daecher, Michael Kramer, Flemming Forsberg</td>
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<td>2084979 Comparison of Contrast-Enhanced Ultrasonography and Computed Tomography in Evaluation of the Immediate Treatment Response After Radiofrequency Ablation of Malignant Hepatic Tumors</td>
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<td>2089987 A Computationally Efficient Ultrasound Image-Processing Strategy for Local Estimation of Tumor Perfusion and Neovascular Morphologic Features</td>
<td>Kenneth Hoy</td>
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<td>2084974 The Use of Computed Tomography/Magnetic Resonance Imaging/Positron Emission Tomography Fusion in Diagnostic Ultrasound</td>
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<td><strong>Cardiovascular Ultrasound: Carotid/ Cerebrovascular</strong></td>
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<td>2084743 Diagnostic Preservation of Atherosclerotic Ultrasound Videos for Stroke Telemedicine in a Watermarking Framework</td>
<td>Jasjit Suri,* Nilanjan Dey, Soumyo Bose, Achintya Das, Sheli Chaudhuri, Luca Saba, Shoab Shafique, Andrew Nicolaides</td>
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<td>2090714 Contrast-Enhanced Sonography in the Assessment of Dirty, Cystic-Like Focal Liver Lesions</td>
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<td>2091335 Assessment of the Usefulness of Multiparametric Ultrasound Imaging of the Testis in Determining Malignant Versus Benign Disease: Blinded Review of Diagnostic Capabilities</td>
<td>Eleni Konstantatou, Asif Iqbal, Lorenzo Derchi, Michele Bertolotto, Massimo Valentino, Christina Kalogeropoulou, Paul Sidhu*</td>
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<td>2084490 Enhancement Parameters of Contrast-Enhanced Ultrasound Correlate With the Ki-67 Labeling Index in Breast Cancer</td>
<td>Keitaro Kamei</td>
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<td>2083849 Second-Look Contrast-Enhanced Ultrasound–Guided Biopsy for Magnetic Resonance Imaging/Computed Tomography–Detected Lesions</td>
<td>Keitaro Kamei</td>
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<td>E. Zhansen</td>
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2091496 Multiparametric Ultrasonography of Testicular Hematomas: Features on Grayscale, Color Doppler, and Contrast Enhanced Sonography and Real-time Tissue Elastography
Eleni Konstantatou, Maria Sellars, Paul Sidhu,* Gibran Yusuf, Dean Huang

2091965 How Sensitive Is the Computer-Assisted Diagnostic Prototype for Malignancy Assessment of Focal Liver Lesions by Contrast-Enhanced Ultrasound
Tudor Moga, Alina Popescu, Roxana Siriup, Ioan Sporea*

Oana Gradinaru-Tascau, Ioan Sporea,* Tudor Moga, Siegfried Ivascu, Roxana Sirli, Alina Popescu, Mirela Danila

2070242 Ultrasound Strain Relaxation Time Ratio: A Quantitative Marker for Assessment of Cortical Inflammation in Renal Allografts
Jing Gao,* Keith Hentel, Noor Al Khori, Robert Min

2072446 Quantitative Elastography for Assessment of Liver Fibrosis in Patients With Chronic Hepatitis B: Correlation With Surgical Pathology
Qiang Lu, Jia-Wu Li, Wen-Wu Ling, Yan Luo, Ji-Bin Liu*

2077111 Is Real-time Elastography Using Manual Compression a Viable Method for Providing a Differential Diagnosis of Benign and Malignant Thyroid Nodules?
Victoria Cooke, Ben Stenberg*

2082791 Difficulties in the Performance of Ultrasound Elastography of Thyroid Malignancies
Alexander Sencha,* Yury Patrunov, Helen Sergeeva, Mikhail Mogutov

2088848 Acoustic Radiation Force Impulse Assessment of Hydronephrosis in Adults in an Outpatient Clinic
Chau Ngan Tran,* Hung Thien Nguyen, Hai Thanh Phan

2089097 Effect of Benign Calcifications of Breast Masses on Shear Wave Elastography
Adriana Gregory,* Mohammad Mehrmohammadi, Max Denis, Mahdi Bayat, Mostafa Fatemi, Azra Alizad

2089908 Shear Wave Elastographic and Acoustic Radiation Force Impulse Techniques for the Rotator Cuff Supraspinatus Tendon at Medich Medical Center: A Preliminary Experience
Hung Thien Nguyen

2089979 In Vitro Quantification and Reproducibility of Elasticity Measurements Using 4 Different Ultrasound Scanners
Anesa Mulabecirovic,* Mette Vesterhus, Odd Gilja, Roald Havre

2090511 Real-time Shear Wave Elastography in the Evaluation of Different Thyroid Pathologies
Mihaela Vlad, Ioana Golu, Ioana Zosin, Romulus Timar, Ioan Sporea*

2090662 Shear Wave Elastography: Four Essential Color Map Patterns to Rule Out Breast Malignancy
Yoshihiko Yonekawa,* Keitaro Kamei

2090990 Shear Wave Elastography of Thyroid Nodules for the Prediction of Thyroid Malignancy
Jeong-Ah Kim

2091047 Shear Wave Elastography and Vibration-Controlled Transient Elastography for the Diagnostic Approach to Chronic Hepatitis and Liver Cirrhosis
Pavlos Zoumpoulis

2091088 Detection and Characterization of Focal Lesions of the Prostate Using Shear Wave Elastography
Pavlos Zoumpoulis

2091338 Systematic Prostate Biopsy Guided by Real-time Elastography: Can This New Imaging Method Improve the Cancer Detection Rate? An Initial Brazilian Experiment
Claudia Silva,* David Schigueoka, Sergio Ajzen

2091484 Ultrasound Elasticity of Virtual Touch Imaging (Acoustic Radiation Force Impulse) and Conventional Ultrasound Characterizes Peripheral Pulmonary Consolidations
Liem Thanh Le

209150 Real-time Ultrasound and In-Vivo Shear Wave Elastography Be an Alternative to Acoustic Radiation Force Impulse Elastography in the Assessment of the Normal Kidney?
Flaviu Bob, Iulia Grosu, Ioan Sporea,* Alina Popescu, Simona Bota, Roxana Siri, Oana Gradinaru-Tascau, Adalbert Schiller

2091749 Evaluation of Intratesticular and Extratesticular Lesions With Real-time Elastography: Comparison of Strain Ratio Versus Color Map Visual Grading
Eleni Konstantatou, Asif Iqbal, Paul Sidhu*
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2087655 Controlling Lethal Shock Wave Production and Doxorubicin Release by Ultrasound-Mediated Microbubble Destruction and Its Potential for Tumor Treatment
Kee Jang,* Anh-vu Do, Allasger Salem, James Martin

2090786 Ultrasound-Guided Hydrosdissection in Peripheral Nerve Entrapment Syndromes: Preliminary Review of Efficacy and Outcomes
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2076879 Recommendations for Sonographers to Work Safely, Comfortably, and Healthfully
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2088672 Current Situation in Work Environments and Ergonomics of Sonographers in Japan: Japan Society of Ultrasonics in Medicine's Research for Prevention of Work-Related Musculoskeletal Disorders
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2090925 Opto-Acoustic Correlations With Histopathology for Suspicious Breast Masses
Philip Lavin,* A. Thomas Stavros, F. Lee Tucker

2102668 Ultrasonographic Landmarks to Define Lower Limits of Neck Node Levels 2 and 3
Jeong Kyu Kim
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- Texas Children’s Hospital
- Pavilion for Women
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2015 Exhibitors
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AIUM Resource Center (Registration Area)
3D Systems, Simbionix Products
7D Imaging, Inc
Acertara Acoustic Laboratories, LLC
AdEchoTech
Alpinion Medical Systems, Inc
American Registry for Diagnostic Medical Sonography (ARDMS)
American Registry of Radiologic Technologists (ARRT)
American Society of Echocardiography (ASE)
Analogic Ultrasound
AS Software, Inc
Bracco Diagnostics
CAE Healthcare
Carestream Health
Center for Fetal Diagnosis and Treatment at the Children’s Hospital of Philadelphia (CHOP)
Chison Medical Imaging Co, Ltd
CIRS, Inc
CIVCO Medical Solutions
ContextVision
Cook Medical
Digisonics, Inc
E-Posters
Elsevier
Esaote North America, Inc
Fetal Medicine Foundation, USA (FMF)
FUJIFILM SonoSite, Inc
Gammex, a Sun Nuclear Company
GE Healthcare
Global Medical Imaging (GMI)
Gulfcoast Ultrasound Institute
History Booth
Hitachi Aloka Medical, Ltd
Imorgon Medical, LLC
Johns Hopkins Center for Fetal Therapy
Konica Minolta Medical Imaging
Kyoto Kagaku Co, Ltd
Lippincott, Williams, and Wilkens
MedaPhor, Ltd
MedCorp
Mindray North America
Nanosonics, Inc
Parker Laboratories, Inc
Perinatal Quality Foundation
Philips Healthcare
Samsung Electronics America, Inc
Siemens Medical Solutions USA, Inc
SiMnext
Sonodepot, Inc
SONOSCAPE Medical Corporation
SonoSim, Inc
Sonultra Corporation
Sound Ergonomics, LLC
Studycast by Core Sound Imaging, Inc
SuperSonic Imagine
Terason Ultrasound
Telexy Healthcare, Inc
Texas Children’s Pavilion for Women/Baylor College of Medicine Genetics
The Fetal Center at Children’s Memorial Hermann Hospital
Toshiba America Medical Systems, Inc
Trice Imaging, Inc
UltraLinq Healthcare Solutions, Inc
UltrasoundJOBS.com
Vascular Pathways, Inc
Verisonics, Inc
WinProbe Corporation
World Federation of Ultrasound Medicine in Biology (WFUMB)
ZONEARE Medical Systems, Inc
AIUM Resource Center Registration Area

The AIUM Resource Center offers numerous ultrasound educational videos and resources. Browse obstetric and gynecologic, musculoskeletal, emergency and critical care, general with most abdominal, and vascular videos offering CME credits with most available to AIUM members at a 50% discount. Discover member resources and CME opportunities accessible through the robust AIUM website. Learn how to connect and share with colleagues using various social media channels, including Facebook, Twitter, LinkedIn, and Instagram. You may also enter to win a free registration to next year’s convention. Please stop by! Located in the Registration Area. See page 6 for Resource Center Hours.

3D Systems, Simbionix Products Booth 430
7100 Euclid Ave, Suite 180
Cleveland, OH 44103 USA
Phone: 216-229-2040
Fax: 216-229-2070
E-mail: galia.zilbershtein@3dsystems.com
Website: http://www.simbionix.com

In its continuous effort to advance clinical performance, 3D Systems develops innovative and effective Simbionix simulation products and solutions for the education and training of medical professionals. Visit our booth to experience the U/S Mentor advanced medical virtual reality simulator for the training of ultrasound-related examinations. This product offers multidisciplinary, realistic hands-on training for the ever-growing use of ultrasound in medicine at the point of care and other settings. It provides medical students, residents, fellows, and practicing physicians an opportunity to acquire and improve their sonographic and diagnostic skills in a variety of fields, including echocardiography, emergency medicine, thoracic-abdomen, transesophageal echocardiography, and basic gynecology-transvaginal sonography. Simbionix products are developed by an experienced research and development team in collaboration with global medical experts. Simulators in more than 70 countries are supported by our world-class customer support center, which is available 24/7 to provide the most responsive service available. To learn more about Simbionix and the U/S Mentor, visit us at www.simbionix.com, or follow us on Facebook, Twitter, and LinkedIn. Contact us at simbionix@3dsystems.com, or call 866-746-2466 with any questions.

7D Imaging, Inc Booth 538
5387 Manhattan Cir, Suite 200
Boulder, CO 80303 USA
Phone: 877-977-1875
E-mail: info@7dimaging.com
Website: http://www.7dimaging.com/

7D Imaging, Inc, develops point-of-action systems for learning ultrasound. Designed to help physicians, sonographers, and medical students “learn by doing” during live scanning, the end result is to master ultrasound faster and scan with complete confidence. 7D’s flagship learning system, mskNAV, is now CME accredited and offers eligibility to earn up to 66 AMA PRA Category 1 Credits™.

Acertara Acoustic Laboratories, LLC Booth 537
1860 Left Hand Cir, Suite H
Longmont, CO 80501 USA
Phone: 303-834-8413
E-mail: sales@acertaralabs.com
Website: http://www.acertaralabs.com

Acertara Acoustic Laboratories, LLC, is an independent International Organization for Standardization (ISO) 9001:2008- and ISO13485:2003-certified company providing diagnostic ultrasound test equipment and advanced probe repair to clinics, hospitals, and ISOs. Our ISO17025:2005-accredited acoustic measurement laboratory delivers engineering services, acoustic testing, and calibration services to ultrasound original equipment manufacturers and regulatory bodies around the world.

AdEchoTech Booth 527
7 Rue Clos Haut de la Bouchardiére
41100 Naveil, France
Phone: 33-67-205-4018
E-mail: n.lefebvre@adechotech.com
Website: http://www.adechotech.com

Remote ultrasound diagnosis is now possible. AdEchoTech is working on the first robotized solution in the world to allow an expert to realize an echographic diagnosis from a patient at distance. This solution of robotized tele-echography is named Melody.
Alpinion Medical Systems, Inc  
Booth 336  
21312 30th Dr, Suite 100  
Bothell, WA 8021 USA  
Phone: 425-949-4900  
E-mail: info@alpinionusa.com  
Website: http://www.AlpinionUSA.com

Alpinion Medical Systems, Inc, is a leader in the development and production of diagnostic, research, and therapeutic ultrasound. Winner of the Red Dot Design Award and iF Design Award for excellence in product innovation, our E-Cube portfolio of diagnostic ultrasound platforms ranges from premium to portable systems. Our innovative E-Cube 12R ultrasound research platform (Food and Drug Administration 510K) combines a premium clinical ultrasound system with a dedicated ultrasound research platform, allowing researchers to create more valuable clinical studies. Additionally, our preclinical high-intensity focused ultrasound (HIFU) system, VIFU 2000, is designed for a wide range of ultrasound-guided HIFU applications within small-animal research. For more information, please visit alpinionusa.com.

American Society of Echocardiography (ASE)  
Booth 220  
2100 Gateway Centre Blvd, Suite 310  
Morrisville, NC 27560 USA  
Phone: 919-861-5574  
Fax: 919-882-9900  
E-mail: ase@asecho.org  
Website: http://www.asecho.org

The American Society of Echocardiography (ASE) is the world's largest organization of cardiovascular ultrasound practitioners. We are dedicated to patient care through education, advocacy, research, innovation, and service to our members and the public. The ASE provides a comprehensive educational portfolio, including live courses, online courses, online webinars, and educational products on a variety of cardiovascular ultrasound topics. Please be sure to visit booth 220.

Analogic Ultrasound  
Booth 415  
8 Centennial Dr  
Peabody, MA 01960 USA  
Phone: 978-326-4000  
Fax: 978-977-6809  
E-mail: info@analogicultrasound.com  
Website: http://www.analogicultrasound.com

Analogic offers research, original equipment manufacturer (OEM), and clinical ultrasound solutions under the Ultrasonix, Sound Technology, and BK Ultrasound brands. Stop by to see our new bk3000, which offers superb image quality, extreme speed, and advanced transducer technology. Sound Technology has a range of transducers for OEM partners. Ultrasonix is showcasing its SonixTouch Q+ and SonixOne research systems.

AS Software, Inc  
Booth 320  
560 Sylvan Ave  
Englewood Cliffs, NJ 07632 USA  
Phone: 201-541-1900  
Fax: 201-541-1199  
E-mail: info@as-software.com  
Website: http://www.as-software.com

AS Software, Inc, specializes in ultrasound reporting and image management systems, for maternal-fetal medicine, obstetrics and gynecology, radiology, and vascular medicine, which offer both physicians and hospitals state-of-the-art data management systems, with reports, images, and graphs in one easy-to-read, clear, comprehensive, and concise report. AS Software has been providing scalable and robust solutions using a structured, clinical database for more than 21 years and has earned a reputation for excellence in the ultrasound reporting industry. AS Software offers seamless integration with your health information systems (eg, hospital information systems, radiology information systems, picture archiving and communication systems, electronic health records, and electronic medical records) to enable interoperability across platforms.
CAE Healthcare
6300 Edgelake Dr
Sarasota, FL 34240 USA
Phone: 941-377-5562
E-mail: kristyn.deggregorio@cae.com
Website: http://caehealthcare.com/

CAE Healthcare delivers simulation training solutions to hospitals, physicians, nurses, students, emergency responders, and the military around the world. Visit the CAE Healthcare booth to learn about our advanced patient, imaging, and surgical simulators, curriculum, and LearningSpace center management solution.

Carestream Health
150 Verona St
Rochester, NY 14608 USA
Phone: 888-777-2072
E-mail: email@carestream.com
Website: http://www.carestream.com

Carestream’s Touch ultrasound system, shown for the first time at RSNA 2014, is an innovative ultrasound platform that delivers a unique all-touch control panel, integrated graphics-processing unit processing power, and smart transducer technology. This creates a highly reliable product with advanced imaging capabilities, a compact footprint and a modern user interface. The sleek, all-touch control panel blends the best of both worlds by combining the speed and flexibility of a soft user interface with the tactile feedback of traditional keys. Etched marking for primary controls assists the user with easily locating key functions without looking away from the image display monitor. This new ultrasound platform was developed on the basis of extensive input from sonographers and other ultrasound imaging professionals. This is the first product in a new family of Carestream ultrasound systems. The first 2 products in the Touch ultrasound family are expected to ship in the third quarter of 2015.

Center for Fetal Diagnosis and Treatment at the Children's Hospital of Philadelphia (CHOP)
34th Street and Civic Center Boulevard
5126 Wood Building
Philadelphia, PA 19104 USA
Phone: 215-590-5298
Fax: 215-590-2447
E-mail: galiem@email.chop.edu
Website: http://www.fetalsurgery.chop.edu

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

Chison Medical Imaging Co, Ltd
9 Xinhuihuan Rd
New District
214028 Wuxi, Jiangsu, China
Phone: 008-6510-8527-1308
Fax: 008-6510-8531-0021
E-mail: export@chison.com.cn
Website: http://www.chison.com

Chison Medical Imaging Co, Ltd, is one of the world’s leading manufacturers of ultrasound systems. With its know-how of transducer design and strong technical force of modern biomedical engineering, software, and electronics, Chison has specialized in the development and manufacturing of high-quality ultrasound systems for more than 19 years. It is certified by the International Organization for Standardization and the European Community by the Technical Inspection Association of Germany.

CIRS, Inc
2428 Almeda Ave, Suite 316
Norfolk, VA 23513 USA
Phone: 757-855-2765
Fax: 757-857-0523
E-mail: info@cirsinc.com
Website: http://www.cirsinc.com

CIRS manufactures a wide range of ultrasound products for quality assurance, training, demonstration, and research. Our products are on the cutting edge of emerging technologies, such as image fusion and shear wave imaging. As more companies develop ultrasound phantoms, our proprietary Zerdine material sets CIRS phantoms apart. A recent reformulation makes for more durable phantoms and minimizes the effect of needle tracks during image-guided interventional procedures. CIRS phantoms uniquely mimic the imaging properties of human tissue in a full range of modalities. Celebrating 30 years as a worldwide leader in phantom manufacturing and tissue simulation, CIRS has earned a reputation for outstanding quality.

CIVCO Medical Solutions
102 First St S
Kalona, IA 52247 USA
Phone: 800-445-6741
Fax: 319-248-6660
E-mail: info@civco.com
Website: http://www.civco.com/civco.htm

For more than 30 years, CIVCO Medical Solutions has been an industry leader in ultrasound, providing needle guidance solutions and infection control products across the spectrum of care.
ContextVision Booth 428
Kungsgatan 50
1135 Stockholm, Sweden
Phone: 46-8-750-3550
Fax: 46-8-750-3550
E-mail: info@contextvision.se
Website: http://www.contextvision.com

ContextVision’s technology provides physicians with improved images, which are crucial for accurate diagnosis and treatment. ContextVision is the industry leader in medical image analysis and enhancement software, with more than 150,000 installations worldwide through its original equipment manufacturer customers. The company started out as an industry pioneer more than 30 years ago and is today developing the next generation of medical imaging software for 2-/3-/4-dimensional ultrasound, magnetic resonance imaging, x-ray, mammography, and computed tomography. ContextVision is based in Sweden and listed on the Oslo Stock Exchange under the ticker COV. For more information, please visit www.contextvision.com.

Digisonics, Inc Booth 316
3701 Kirby Dr
Houston, TX 77098 USA
Phone: 800-940-3240
Fax: 713-529-7999
E-mail: info@digisonics.com
Website: http://www.digisonics.com

Digisonics has set the standard in picture archiving and communication systems (PACS) and structured reporting systems for more than 25 years, with the first review station, the first fully functional Web-based system, and a fully integrated 3D/4D analysis package. Digisonics solutions combine high-performance image review, structured reporting, an integrated clinical database, and a powerful PACS image archive into one system for obstetric and gynecologic, vascular, and general ultrasound studies. Key applications are complemented with interfaces to information systems (hospital information systems, radiology information systems, electronic health records, electronic medical records, and PACS) and other third-party vendors, creating seamless, efficient clinical workflow.

Cook Medical Booth 534
750 Daniels Way
Bloomington, IN 47404 USA
Phone: 800-457-4500
Fax: 800-554-8335
E-mail: sales.ops@cookmedical.com
Website: http://www.cookmedical.com

Cook Medical has been working on ultrasound-enhanced devices for 30 years. We’re a medical device company with a focus on minimally invasive medicine. Our technology and understanding of raw materials allows us to engineer echogenicity directly into the device. Stop by our booth to tell us how you are using ultrasound for diagnostics and intervention in the areas of radiology, cardiology, urology, critical care medicine, general surgery, assisted reproduction, gynecology and obstetrics, endovascular medicine, gastroenterology, and endoscopy. Visit www.cookmedical.com.

Elsevier Booth 109
1600 JFK Blvd, Suite 1800
Philadelphia, PA 19103 USA
Phone: 215-239-3900
E-mail: j.francis@elsevier.com
Website: http://www.elsevierhealth.com

Elsevier is a leading publisher of health science publications, advancing medicine by delivering superior reference information and decision support tools to physicians, nurses, health practitioners, and students. With an extensive media spectrum—print, online, and handheld—we are able to supply the information you need in the most convenient format.

Esaote North America, Inc Booth 214
8000 Castleway Dr
Indianapolis, IN 46250 USA
Phone: 800-428-4374
Fax: 317-813-6600
E-mail: info@esaoteusa.com
Website: http://www.esaoteusa.com

Esaote North America, part of the Esaote Group, is a global leader in research, production, and marketing of diagnostic medical equipment. Among the largest manufacturers of ultrasound systems worldwide, Esaote prides itself in achieving superior price and performance over competitors through focused ultrasound and office-based magnetic resonance imaging. Visit us at www.esaoteusa.com.
The Fetal Medicine Foundation (FMF) is recognized as the world leader in first-trimester screening (FTS) training and accreditation, with more than 58,000 participants worldwide. We are a nonprofit charitable organization whose main goal is to improve the health of pregnant women and their babies through our programs. Free online courses are available at www.fetalmedicineusa.com in FTS, Doppler ultrasound, echocardiography, cervical assessment, videos of fetal defects, and lectures. The 11–13-week scan course covers all of the important aspects of first-trimester screening for chromosomal abnormalities, the diagnosis of major fetal defects, and screening for preeclampsia. First-trimester accreditation offered includes nuchal translucency, nasal bone, tricuspid flow, ductus venousus, and uterine artery Doppler.

FUJIFILM SonoSite, Inc
21919 30th Dr SE
Bothell, WA 98021 USA
Phone: 425-951-1200
Fax: 425-951-1201
Website: http://www.sonosite.com

FUJIFILM SonoSite, Inc, the world leader in bedside and point-of-care ultrasound, delivers solutions that meet imaging needs of the medical community. With its acquisition of VisualSonics' ultra high-frequency micro imaging technology, SonoSite continues to influence the future of medical ultrasound in both the clinical and preclinical markets.

Gammex, a Sun Nuclear Company
7600 Discovery Dr
Middleton, WI 53562 USA
Phone: 608-828-7000
Fax: 608-828-7500
E-mail: sales@gammex.com
Website: http://www.gammex.com

Gammex is a leader in the manufacture and sales of quality assurance phantoms for ultrasound applications and is a worldwide sales organization that sells these products to hospitals, service organizations, government agencies, and medical physics companies. In addition to ultrasound phantoms, Gammex also sells products for quality assurance and alignment applications in the diagnostic radiology, mammography, radiation oncology, and laser alignment markets.

GE Healthcare
9900 Innovation Dr, RP 2139
Wauwatosa, WI 53226 USA
Phone: 866-344-3633
Website: http://www.gehealthcare.com/ultrasound

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

Gulfcoast Ultrasound Institute
4615 Gulf Blvd, Suite 205
St Pete Beach, FL 33706 USA
Phone: 800-619-1990
Fax: 727-363-0811
E-mail: learn@gcus.com
Website: http://www.gcus.com

Gulfcoast Ultrasound Institute is the gold standard when it comes to ultrasound education. More than 132,000 medical professionals have received education through Gulfcoast Ultrasound Institute's seminars, products, and online education since 1985. Gulfcoast Ultrasound Institute offers the largest selection of live hands-on courses, comprehensive online courses, registry preparation, self-directed products, and custom on-site education. Take your career to the next level with Gulfcoast Ultrasound Institute!

Hitachi Aloka Medical, Ltd
10 Fairfield Blvd
Wallingford, CT 06492 USA
Phone: 800-872-5652
Fax: 203-269-6075
E-mail: inquiry@hitachi-aloka.com
Website: http://www.hitachi-aloka.com/

As a recognized leader in ultrasound innovation, Hitachi Aloka Medical is known for unparalleled image quality, superior system reliability, and intuitive use of innovative technologies. Hitachi Aloka Medical has the answer for all of your clinical diagnostic requirements.
The Imargon ultrasound enhancement system seamlessly integrates with enterprise picture archiving and communication system workstations, and the system's harmonization engine provides vendor-neutral compatibility with all major medical ultrasound and dictation systems. As a result, the Imargon system is able to display ultrasound images and clips in interleaved acquisition order with clips automatically playing; it automatically transfers measurements and calculations from the ultrasound exam to the radiology report; and it enables radiology departments to fully leverage their ultrasound technology investment and ultimately deliver higher levels of patient care.

Johns Hopkins Center for Fetal Therapy
Department of Gynecology and Obstetrics
600 N Wolfe St
Nelson Building, Suite 228
Baltimore, MD 21287 USA
Phone: 410-502-6561
Fax: 410-614-1617
E-mail: melony@jhmi.edu
Website: http://www.hopkinsmedicine.org/gynecology_obstetrics/specialty_areas/fetal_therapy/

The Johns Hopkins Center for Fetal Therapy provides state-of-the-art treatment for complex fetal conditions, including twin-twin-transfusion syndrome, spina bifida, congenital diaphragmatic hernia, urinary tract obstruction, and fetal tumors. Our multidisciplinary care approach integrates expertise in open and closed fetal interventions, fetoscopic surgery, maternal, neonatology, pediatric, genetic, and social services located at one of the leading medical institutions in the nation. Our fetal therapy physician hotline (1-888-JH-FETAL) provides 24/7 access to care.

Konica Minolta Medical Imaging
411 Newark Pompton Tpke
Wayne, NJ 07470 USA
Phone: 800-934-1034
E-mail: bill.kenny@konicanolta.com
Website: http://www.konicanolta.com/medicalusa

Konica Minolta Medical Imaging’s primary imaging systems provide the accessibility and clinical confidence you need to make informed decisions at the point of care. Our ultrasound imaging solutions build economic value with low total cost of ownership. Enhance patient satisfaction with immediacy of information with Konica Minolta’s primary imaging solutions. For more information, please visit us at konicanolta.com/medicalusa.

Kyoto Kagaku Co, Ltd
3109 Lomita Blvd
Torrance, CA 90505 USA
Phone: 310-325-8860
Fax: 310-325-8867
E-mail: rw-kyoto@kyotokagaku.co.jp
Website: http://www.kyotoscied.com

Founded during postwar Japan in 1948, Kyoto Kagaku Co, Ltd., began with the production of scientific specimens, anatomic models, and skeleton replicas. Since the production of our first synthetic mannequins, Kyoto Kagaku products have been accepted worldwide and have contributed to all levels of scientific education, academic research, and the rapidly expanding world of simulation. Its first radiology phantom was developed in the early 1960s with the collaboration of the Shimadzu Corporation. Tissue substitute materials with ultrasound compatibility have been a recent and highly successful development that opened doors to a variety of quality assurance and training phantoms in the field of sonography. To meet the needs of today’s medical education, Kyoto Kagaku strives to produce items that effectively reveal the complexities of the human body and make medical knowledge a tangible and accessible resource. Creativity and craftsmanship are held at equal value in our facilities, and all of our simulators are intricately handcrafed to ensure the highest quality and attention to detail. In developing our models, we design each product to be compatible with various medical equipment for a realistic learning experience and incorporate new mechanics and ingredients to pursue state-of-the-art creations. As we continue to progress into a new generation of simulators, we will continue to incorporate techniques of different fields to achieve the utmost product for medical education.

MedaPhor, Ltd
The Medicentre
Heath
Cardiff CF14 4UJ, Wales
Phone: 44-2920-756534
E-mail: sales@medaphor.com
Website: http://www.medaphor.com

MedaPhor is a global ultrasound training company selling the award-winning ScanTrainer ultrasound training simulator. The virtual reality simulator combines “real-feel” haptic simulation with real patient scans and curriculum-based interactive learning to provide fast and effective 24/7 ultrasound training in a nonclinical environment. ScanTrainer’s unique ScanTutor learning software provides a personalized education environment that minimizes both the time required by an expert to teach and the need for a variety of patients to learn on. This makes the ScanTrainer system both resource-efficient and highly cost-effective. ScanTrainer comes with integrated core skills training modules and a wide range of advanced skills pathology modules and diagnostic case studies for the more experienced practitioner.
Mindray North America
800 MacArthur Blvd
Mahwah, NJ 07430 USA
Phone: 201-995-8176
E-mail: j.toth@mindray.com
Website: http://mindrayna.com/

Mindray North America has an unwavering dedication to improving patient care through a full complement of hand-carried and cart-based innovative ultrasound imaging systems. The new M9 premium compact ultrasound system, with robust processing power and premium imaging, affords health care professionals fully featured capabilities and rapid patient care decisions at the bedside. The compact M9 system, weighing only 12.8 lb, scans technically difficult patients with a high level of diagnostic confidence. Visit Mindray at booth 529 for a demonstration of live scanning.

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

Parker Laboratories, Inc, established in 1958, is a leading manufacturer of medical ultrasound and electromedical contact media, including gels, lotions, and pads. Parker’s products are recognized globally by health care professionals as standards of excellence and products of choice.

Perinatal Quality Foundation
12316A North May
Oklahoma City, OK 73120 USA
Phone: 866-582-2765
Fax: 405-241-5365
E-mail: jspitz@perinatalquality.org
Website: http://www.perinatalquality.org

The Perinatal Quality Foundation (PQF) originated from the Society for Maternal-Fetal Medicine and, although independent, remains closely aligned. The PQF provides credentialing in nuchal translucency and nasal bone imaging through the Nuchal Translucency Quality Review program, continuing education and cervical image review through the Cervical Length Education and Review program, and credentialing in electronic fetal monitoring through the Fetal Monitoring Credentialing program. The mission of the PQF is to improve the quality of obstetric medical care. For information about any of our programs, please go to www.perinatalquality.org.

Philips Healthcare
3000 Minuteman Rd
Andover, MA 01810 USA
Phone: 800-934-7372
Website: http://www.philips.com/healthcare

As a global leader in health care technology, Philips Healthcare is dedicated to improving people’s lives through meaningful innovation. We are guided by the understanding that there is a patient connected to everything we do and that all over the world, patients and their clinicians are counting on us to deliver solutions across the continuum of care. Visit us at www.philips.com/healthcare.

Samsung Electronics America, Inc
85 Challenger Rd
Ridgefield Park, NJ 07660 USA
Phone: 201-229-4000
E-mail: hme@sea.samsung.com
Website: http://www.samsung.com/business

As a leader in the digital revolution, Samsung Electronics has contributed by providing products that encompass innovative technologies, original designs, convenience, and customer values. By branching out into the medical equipment industry, Samsung Electronics aims to become a global leader as a health care company through joining together its image-processing, semiconductor, and communication technologies into medical devices. The Health and Medical Equipment Business now sells cutting-edge medical devices, including diagnostic ultrasound, digital x-ray, blood analyzers, and computed tomographic scanners, in more than 110 countries around the world.

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.
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SonoScape is a leading medical equipment company worldwide. SonoScape has been well known for its advanced ultrasound imaging Systems since 2002. SonoScape has also extended its landscape to electrocardiography, endoscopy, and other applications to address the growing needs of a diverse market.

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As one of the nation’s leaders in the diagnosis and treatment of abnormalities in unborn and newborn infants, Texas Children’s Fetal Center is committed to providing the best possible care and outcome for each mother, baby, and family. We provide comprehensive care to meet the needs of pregnant women, fetuses, and newborns in a new model we call family-centered care. We perform fetal interventions, including fetal surgery, in the state-of-the-art operating facilities at Texas Children’s Pavilion for Women, immediately adjacent to our 76-bed level IV neonatal intensive care unit in Texas Children’s Hospital. The Fetal Center is committed to responsiveness and is open 24/7 with physicians on-call to discuss diagnoses and care plans with referring physicians. The Fetal Center is prepared for surgical or medical intervention 7 days a week, year-round.
The Fetal Center at Children’s Memorial Hermann Hospital
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The Fetal Center at Children’s Memorial Hermann Hospital, affiliated with the physicians at UTHealth Medical School, is a national leader in fetal diagnosis, fetal intervention, and comprehensive fetal care for babies with congenital anomalies or genetic abnormalities requiring treatment before or after birth. A national referring center, The Fetal Center offers patients a complete range of prenatal testing and fetal interventions with a coordinated program for mother and child before, during, and after birth.

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UltrasoundJOBS.com is the only recruitment site exclusively devoted to ultrasound professionals, offering sonographers and vascular technologists a service that will enhance their professional development through the use of the latest cutting-edge technology. For more than 10 years, UltrasoundJOBS.com has partnered with the American Registry for Diagnostic Medical Sonography with the commitment to providing the recruiting tools needed when promoting quality care and patient safety through the certification and continuing competency of ultrasound professionals. For more information, please visit www.UltrasoundJOBS.com.

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Vascular Pathways, Inc is a privately held medical device company founded in 2005 by Amir Belson, MD. The company commercialized the AccuCath® IV Catheter System Line, an FDA cleared, guidewire catheter system enabling rapid, safe, and successful IV insertion, with or without ultrasound guidance. The company continues to invest in innovation, delivering quality products designed to improve patient care, clinician satisfaction and lower provider costs.
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WinProbe Corporation is the designer, manufacturer, and supplier of the UltraVision line of ultrasound systems for research and clinical applications. The UltraVision is the world’s most cost-effective hand-carried system, producing high-quality images in B, M, color flow Doppler, pulsed wave, and E modes.

World Federation for Ultrasound in Medicine and Biology - International Hub
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The World Federation for Ultrasound in Medicine and Biology (WFUMB), is dedicated to the advancement of ultrasound by encouraging research, promoting international cooperation, disseminating scientific information, and improving communication and understanding in the world community using ultrasound in medicine and biology. WFUMB is a Federation of six affiliated organizations consisting of Regional Federations that span over 90 countries and includes over 51,000 members.

This year, the WFUMB 2015 World Congress is being hosted by WFUMB’s North American affiliated organization, the American Institute for Ultrasound in Medicine.

Representatives from WFUMB’s international affiliated organizations, and representatives of WFUMB’s journal, Ultrasound in Medicine and Biology (UMB) join together to form an international hub in the exhibit hall.

Come visit and learn more about future activities of the:
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