ULTRASOUND 2015
October 1-3
Thursday-Saturday
Boston Marriott Long Wharf
Boston, Massachusetts

PROGRAM DIRECTORS
Carol B Benson, MD
Peter M Doubilet, MD, PhD

REGISTER NOW!
Harvard Medical School
PO Box 825
Boston, MA 02117-0825
www.cme.hms.harvard.edu
COURSE DESCRIPTION
Advances in ultrasound technology and diagnostic utility, including 3D sonography and Doppler, make it difficult for those who practice ultrasound to stay current and up-to-date on new techniques and diagnostic capabilities. In addition, new methods of prenatal diagnosis have changed the role of ultrasound in fetal assessment. The thirty-ninth Brigham and Women’s Hospital course on Ultrasound includes one day of General and Vascular Ultrasound followed by two days devoted to Obstetrical and Gynecological Ultrasound. The educational format will be didactic lectures supplemented by question and answer periods.

Exhibitors of ultrasound equipment and books will be present at the course.

OBJECTIVES
• Learn how to use the full capabilities of ultrasound equipment
• Recognize individual sonographic disease patterns and how they can be used to make more accurate diagnoses in your practice
• Describe how to use ultrasound in conjunction with other imaging modalities, when appropriate, to solve clinical problems
• Illustrate when and how to use ultrasound for guiding invasive procedures for biopsy and treatment
• Incorporate new types of prenatal testing into the armamentarium for evaluation of the fetus

KEY TOPICS
• Thyroid, Parathyroid and other Neck Lesions
• Aortic, Renal, and Mesenteric Doppler
• Liver Doppler
• Upper and Lower Extremity Venous Ultrasound
• Scrotal Ultrasound
• Fetal CNS
• Pseudo- and Quasi-OB Ultrasound Abnormalities
• Fetal Echocardiography
• 3D Ultrasound in Gynecology
• Multiple Gestations
• Ovarian Masses
• Ectopic pregnancy

WHO SHOULD ATTEND
The course is directed to radiologists, obstetrician/gynecologists, sonographers and other practitioners whose scope of practice includes ultrasound.

GUEST FACULTY
Anne M Kennedy, MBCh: Professor of Radiology, Adjunct Professor of Obstetrics and Gynecology, University of Utah School of Medicine; Vice-Chair for Clinical Operations, Department of Radiology, Co-Director, Maternal Fetal Diagnostic Center, Utah Hospital, Salt Lake City, UT

William D Middleton, MD: Professor of Radiology, Section of Abdominal Imaging and Diagnostic Ultrasound, Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, MO

Mary E Norton, MD: Professor and Vice Chair for Clinical and Translational Genetics, David E. Thorburn Endowed Chair in Perinatal Medicine and Genetics Department of Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco, CA

Leslie M Scoutt, MD: Professor of Diagnostic Radiology and of Vascular Surgery; Associate Program Director, Diagnostic Radiology, Chief, Ultrasound Section, Medical Director, Non-Invasive Vascular Lab, Yale-New Haven Hospital, New Haven, CT

HARVARD MEDICAL SCHOOL FACULTY
Beryl R Benacerraf, MD: Clinical Professor of Obstetrics and Gynecology, Clinical Professor of Radiology; Brigham and Women’s Hospital

Carol B Benson, MD: Professor of Radiology; Director, Division of Ultrasound, Co-Director, High Risk Obstetrical Ultrasound, Medical Director, Continuing Medical Education, Department of Radiology, Brigham and Women’s Hospital

Peter M Doubilet, MD, PhD: Professor of Radiology; Senior Vice Chair of Radiology, Brigham and Women’s Hospital

Sara M Durfee, MD: Assistant Professor of Radiology; Brigham and Women’s Hospital

Mary C Frates, MD: Associate Professor of Radiology; Assistant Director, Division of Ultrasound, Brigham and Women’s Hospital

Robin P Goldenson, MD, MPH: Instructor in Radiology; Brigham and Women’s Hospital

Howard T Heller, MD: Instructor in Radiology; Brigham and Women’s Hospital

Hope E Peters, MD: Instructor in Radiology; Brigham and Women’s Hospital

Julie A Ritner, MD: Instructor in Radiology; Brigham and Women’s Hospital

Wayne Tworetzky, MD: Associate Professor of Pediatrics; Director, Fetal Cardiac Imaging, Director, Fetal Cardiology Program, Boston Children’s Hospital

Mary A Warner, MD: Instructor in Radiology; Brigham and Women’s Hospital
**THURSDAY, OCTOBER 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Registration / Continental Breakfast</td>
<td></td>
</tr>
<tr>
<td>7:55</td>
<td>Welcome and Introduction</td>
<td>Peter M Doubilet, MD, PhD</td>
</tr>
<tr>
<td>8:00</td>
<td>Renal Ultrasound</td>
<td>Robin P Goldenson, MD</td>
</tr>
<tr>
<td>8:40</td>
<td>Thyroid Ultrasound</td>
<td>Mary C Frates, MD</td>
</tr>
<tr>
<td>9:20</td>
<td>Parathyroid and other Nonthyroidal Neck Lesions</td>
<td>William D Middleton, MD</td>
</tr>
<tr>
<td>10:00</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>Aortic, Renal, and Mesenteric Doppler</td>
<td>Leslie M Scoutt, MD</td>
</tr>
<tr>
<td>11:10</td>
<td>Liver Doppler</td>
<td>William D Middleton, MD</td>
</tr>
<tr>
<td>11:50</td>
<td>Questions and Answers</td>
<td>Morning Speakers</td>
</tr>
<tr>
<td>12:05</td>
<td>LUNCH RECESS</td>
<td></td>
</tr>
</tbody>
</table>

**Moderator:** Dr. Doubilet

**FRIDAY, OCTOBER 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Registration / Continental Breakfast</td>
<td></td>
</tr>
<tr>
<td>7:55</td>
<td>Welcome and Introduction</td>
<td>Carol B Benson, MD</td>
</tr>
<tr>
<td>8:00</td>
<td>Fetal GI Tract</td>
<td>Sara M Durfee, MD</td>
</tr>
<tr>
<td>8:40</td>
<td>Fetal GU Tract</td>
<td>Carol B Benson, MD</td>
</tr>
<tr>
<td>9:20</td>
<td>Topics in Fetal CNS</td>
<td>Anne M Kennedy, MBBCh</td>
</tr>
<tr>
<td>10:00</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>Pseudo- and Quasi-OB Ultrasound Abnormalities</td>
<td>Mary E Norton, MD</td>
</tr>
<tr>
<td>11:10</td>
<td>Fetal Echocardiography</td>
<td>Wayne Tworetzky, MD</td>
</tr>
<tr>
<td>11:50</td>
<td>Questions and Answers</td>
<td>Morning Speakers</td>
</tr>
<tr>
<td>12:05</td>
<td>LUNCH RECESS</td>
<td></td>
</tr>
</tbody>
</table>

**Moderator:** Dr. Benson

**SATURDAY, OCTOBER 3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Registration / Continental Breakfast</td>
<td></td>
</tr>
<tr>
<td>7:55</td>
<td>Sonography of Pelvic Pain</td>
<td>Hope E Peters, MD</td>
</tr>
<tr>
<td>8:40</td>
<td>Ectopic Pregnancy</td>
<td>Peter M Doubilet, MD, PhD</td>
</tr>
<tr>
<td>9:20</td>
<td>Adnexal Masses</td>
<td>Beryl R Benacerraf, MD</td>
</tr>
<tr>
<td>10:00</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>Role of Ultrasound in Infertility</td>
<td>Mary C Frates, MD</td>
</tr>
<tr>
<td>11:10</td>
<td>3D Ultrasound in Gynecology</td>
<td>Beryl R Benacerraf, MD</td>
</tr>
<tr>
<td>11:50</td>
<td>Questions and Answers</td>
<td>Morning Speakers</td>
</tr>
<tr>
<td>12:05</td>
<td>LUNCH RECESS</td>
<td></td>
</tr>
</tbody>
</table>

**Moderator:** Dr. Frates

**Program changes/substitutions may be made without notice.**
ACCREDITATION

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 20.25 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

- Thursday - A maximum of 8.75 AMA PRA Category 1 Credits™
- Friday - A maximum of 6.75 AMA PRA Category 1 Credits™
- Saturday - A maximum of 6.75 AMA PRA Category 1 Credits™

The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

AMA PRA Category 1 Credits™ claimed by physicians attending live events certified and organized in the United States for AMA PRA Category 1 Credits™ can be claimed through the agreement and mutual recognition of credits between UEMS and AMA, considered as being equal to the European Continuous Medical Education Credits (ECMEC©) granted by the UEMS. One AMA PRA Category 1 Credits™ is equivalent to one (1) hour of European EACCME Credit (ECMEC©), therefore up to 20.25 ECMEC© Credits are available. Each medical specialist should claim only those hours.

ACGME COMPETENCIES

This course is designed to meet one or more of the following Accreditation Council of Graduate Medical Education competencies:

- Patient care
- Medical knowledge
- Practice-based learning and improvement

REGISTRATION INFORMATION

Tuition Fee*:

- 3-Day Physician Fee $850.00
- 2-Day Physician Fee $700.00
- 1-Day Physician Fee $500.00
- 3-Day Residents/Fellows/RTs/RDMSs Fee $600.00
- 2-Day Residents/Fellows/RTs/RDMSs Fee $500.00
- 1-Day Residents/Fellows/RTs/RDMSs Fee $325.00
- 3-Day Student Fee $275.00
- 2-Day Student Fee $225.00
- 1-Day Student Fee $175.00

*All fees shown in USD

Registration by credit card (VISA, MasterCard or American Express) or check can be made through Harvard Medical School's secure online registration system at https://www.hmscmeregistration.org/351520. Registration by check (draft on a United States bank), please make payable to Harvard Medical School. Learners who choose to pay by check will be prompted to download an online form to send in with a payment. Telephone or fax registration is not accepted. Registration with cash payment is not permitted. Upon receipt of your payment, you will receive an email confirmation. Be sure to include an email address that you check frequently. Your email address is used for critical information including registration confirmation, evaluation and certificate.

INQUIRIES

By phone 617-384-8600, Monday-Friday, 9 AM to 5 PM (EST) or by email at: hms-cme@hms.harvard.edu

ONLINE INFORMATION

To register or view activity information online, visit: https://www.hmscmeregistration.org/351520

To ensure proper registration, please add the first three characters of the source code.

COURSE LOCATION/ACCOMMODATIONS/TRAVEL

All sessions for this activity will be held at The Boston Marriott Long Wharf, 296 State Street - Boston, Massachusetts 02109 (Telephone: 617-227-0800). A limited number of rooms have been reserved at the Boston Marriott Long Wharf. (800) 228-9290 or (617) 227-0800 until September 9, 2015. Please specify that you are enrolled in this activity to receive a reduced room rate of $289 per night Single/Double. Hotel arrangements can also be made online at http://cwp.marriott.com/boslw/brighamwomensoct2015. Please do not purchase nonrefundable airline ticket(s) until you have received an email from our office confirming your paid registration. For airline reservations contact the HMS Travel Desk toll free 1-877-4-HARVMD (1-877-442-7863) Monday - Friday 9 AM - 8 PM (EST). From outside the U.S., Canada and Virgin Islands, please call 617-559-3764.

ULTRASOUND 2015 - CLASS #351520

October 1-3, 2015

Tuition Fee*:

- 3-Day Physician Fee $850.00
- 2-Day Physician Fee $700.00
- 1-Day Physician Fee $500.00
- 3-Day Residents/Fellows/RTs/RDMSs Fee $600.00
- 2-Day Residents/Fellows/RTs/RDMSs Fee $500.00
- 1-Day Residents/Fellows/RTs/RDMSs Fee $325.00
- 3-Day Student Fee $275.00
- 2-Day Student Fee $225.00
- 1-Day Student Fee $175.00

*Processing (non-refundable service fee) $5

*All fees shown in USD

Each participant will receive an electronic syllabus only.

DISCLOSURE POLICY

Harvard Medical School (HMS) adheres to all ACCME Essential Areas, Standards, and Policies. It is HMS’s policy that those who have influenced the content of a CME activity (e.g. planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest prior to the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.

REFUND POLICY

Refunds, less an administrative fee of $75, will be issued for all cancellations received two weeks prior to the start of the course. Refund requests must be received by postal mail, email, or fax. No refund will be issued should cancellation occur less than two weeks prior. “No shows” are subject to the full course fee and no refunds will be issued once the conference has started.

Please Register at: https://www.hmscmeregistration.org/351520