Claim Credit

Claim your credit at the following locations:

CLAIM CREDIT STATIONS (LEVEL 800)
ANNUAL MEETING APP
WWW.ARRS.ORG/MEETINGCREDIT

Opens April 19, 2015
Closes May 29, 2015

Login using your Last Name
and Member or Customer ID located
on the back of your Annual
Meeting badge.

If you allow a commercial exhibitor to scan your name badge,
you are providing the exhibitor with your name, organization,
address, email and phone number.
Welcome to the ARRS 2015 Annual Meeting!

We are pleased and honored that you have chosen to join us for ARRS’ 115th Annual Meeting in Toronto, Canada. Once again the meeting offers a full week packed with a stellar program of instruction, scientific and educational presentations, and an opportunity to connect with your colleagues and peers in a relaxed and friendly atmosphere. An impressive cadre of volunteers and more than 400 internationally recognized faculty have worked hard to ensure the most comprehensive and up-to-date information is presented, knowledge you can put into practice immediately.

This year we welcome the Chinese Taipei Society of Radiology (CTSR) as our global partner. CTSR will be sharing their award-winning exhibits and providing speakers throughout the week. Be sure to attend the Great Debate on controversies in mammography screening, get hands-on experience in hip ultrasound, learn the latest clinical advances in stroke imaging (in partnership with the American Society of Neuroradiology), as well as any of the more than 50 hours of education across all subspecialty areas.

Toronto is an exciting venue, and the ARRS 115th Annual Meeting has something for everyone. We hope you enjoy the week, and we welcome your feedback. On behalf of my colleagues on the ARRS Executive Council, thank you for joining us in Toronto.

Melissa Rosado de Christenson, MD
ARRS President

MEETING OVERVIEW/CLAIMING CREDIT INFORMATION

PROGRAM OBJECTIVES

The ARRS 2015 Annual Meeting has three primary goals:
1. To disseminate information that fosters a deeper knowledge and comprehension of the practice and science of radiology.
2. To provide a forum to report on, exchange information, and disseminate new developments and expert knowledge in radiology, as well as information related to practice management, leadership, quality of care, ethical practices and non-clinical topics that contribute to desired patient outcomes.
3. To impact competence by facilitating the translation of knowledge into daily clinical practice by offering education to satisfy The American Board of Radiology Maintenance of Certification Self-Assessment of Knowledge requirements (MOC Part II), sharing practice-based strategies for mitigating errors, creating a forum for global collaboration and cooperation on radiological issues, and enhancing understanding of important conditions in the radiology subspecialties.

TARGET AUDIENCE

The ARRS 2015 Annual Meeting is intended for all professionals involved in radiology with a particular emphasis on radiologists, radiologists-in-training and other health professionals involved in the delivery of radiological services.

EDUCATIONAL CREDIT INFORMATION

Continuing Medical Education

Accreditation Statement

ARRS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education activities for physicians. ARRS has received the highest level of accreditation, Accreditation with Commendation.

Designation Statements

2015 Annual Meeting in Toronto CME: ARRS designates this live educational activity for a maximum of 50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. ARRS does not provide CE credit for this meeting.

American Board of Radiology

ARRS has “Deemed Status” with the American Board of Radiology Maintenance of Certification Program. Certain activities in this meeting are also qualified by the American Board of Radiology in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program.

Annual Meeting SAM Credits

SAM credits and SA-CME credits both fulfill MOC Part II requirements for the ABR. The 2015 Annual Meeting offers both SAM and SA-CME credits to give attendees the maximum possible credits for Part II requirements. Live courses that offer Part II credit are marked in the schedule as SAMs. This meeting offers 46.5 hours of SAM credit through courses. Select Electronic Exhibits offer a total of 11.75 SA-CME credit.

INTERNATIONAL CONTINUING EDUCATION CREDITS

For those practicing outside of the United States, please note the following:
European Union and European Union of Medical Specialists

European physicians can earn their ECMECs® by attending ARRS 2015 Annual Meeting, a live event that has been certified for AMA PRA Category 1 Credits™. The UEMS-EACCME® and the AMA recognize each other’s CME credits since 2005. European physicians attending a USA accredited event will have their credits recognized in Europe.

Royal College of Physicians and Surgeons of Canada

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert AMA PRA Category 1 Credits™ to Royal College MDC Section 1 credits for live face-to-face learning.

Canadian Association of Radiologists

The ARRS Categorical Course (Live Event) is an Accredited Self-Assessment Program (Section 3) as defined by the NEW Maintenance of Certification program (MOC) of the Royal College of Physicians and Surgeons of Canada (RCPSC), and has been approved by the Canadian Association of Radiologists (CAR) for a maximum of 0.5 credit hours for each presentation. The RCPSC recording system (MAINPORT) will automatically convert the credit hours for this program to three credits per claimed hour (0.5 hours x 3 = 1.50 credit hours).

Physicians should only claim credits commensurate with the extent of their participation in the activity.

Royal Australian and New Zealand College of Radiologists (RANZCR)

ARRS is an authorized CPD provider for imaging conferences. 1 AMA PRA Category 1 Credit™ is equivalent to 1 RANZCR CPD Point and can be claimed in the RANZCR Clinical Radiology CPD Program.

CLAIMING CME/SAM CREDIT

CME credit may be claimed for attendance at the categorical course, case-based imaging review course, education seminars, poster sessions, great debate, stroke imaging course, hands-on ultrasound course, artifacts in physics course, quality and safety course, radiology year in review, business and practice management seminar, instructional courses, scientific sessions, and power hours. Additional SA-CME credit is available for selected electronic exhibits.

All credits should be claimed online at www.arrs.org/MeetingCredit. Attendees can claim their credit onsite at the CME/SAM station or from a laptop or mobile device. To access course attendance logs and evaluations, login to the website using your Last Name and member ID located on the back of your annual meeting badge. Selected courses have been approved for Self-Assessment (SAM) credit. To claim your SAM credit, after completion of the course go to www.arrs.org/MeetingCredit to access the related Self-Assessment questions, complete the course evaluation and then claim your SAM and CME credit. You must attend the whole course to receive SAM credit. Attendees can claim credits online until the website closes on May 29, 2015. Attendees should claim only the credit commensurate with the extent of their participation in the activity. ARRS members may access their CME records through the “My Education” section of the ARRS website (www.arrs.org) after the online credit claim site closes.

IMPORTANT NOTE

Live streaming participants may only claim credit commensurate with their participation in the actual live streaming course.

CLAIMING ARLM CREDIT

Medical imaging professionals can earn a Certificate of Achievement from ARLM by earning 50 education credits - at least 38 credits in person - across a spectrum of core learning domains, including Financial Skills, Human Resources, Professionalism, Legal Contracting, Academic Mission and General Management. A minimum of three credits in each domain is required. Courses that include the ARLM logo are approved as part of the Academy of Radiology Leadership and Management Program. Visit www.radreaders.org to learn more and claim ARLM credit.
<table>
<thead>
<tr>
<th>Time</th>
<th>Sunday April 19</th>
<th>Monday April 20</th>
<th>Tuesday April 21</th>
<th>Wednesday April 22</th>
<th>Thursday April 23</th>
<th>Friday April 24</th>
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<tbody>
<tr>
<td>7AM</td>
<td></td>
<td>Power Hours</td>
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<td>8AM</td>
<td>Education Seminar</td>
<td>Scientific Sessions</td>
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</table>
GENERAL MEETING INFORMATION

ARRS WELCOME AND INFORMATION CENTER (REGISTRATION AND INFORMATION BOOTH) The ARRS Welcome and Information Center is open throughout the meeting to provide assistance and answer questions. Pick up your registration materials, update your meeting badge, check in as a moderator, ask a question about the meeting app or claiming credits. We can help!

LOCATION AND HOURS

FOyer, Level 800
Saturday, April 18 1:00 pm-5:00 pm
Sunday, April 19 6:30 am-6:00 pm
Monday, April 20-Thursday, April 23 6:30 am-4:00 pm
Friday, April 24 6:30 am-1:00 pm

ARRS STORE
COMMERCIAL EXHIBIT HALL CASE OF THE DAY
INTERNET CAFÉ
BEVERAGE AND LUNCH BREAKS MONDAY-WEDNESDAY ARRIS encourages you to visit the Commercial Exhibit Hall, Monday–Wednesday. Within the Commercial Exhibit Hall you can visit various booths including the ARRS Store (3411) to see the latest products and services; participate in the Case of the Day; use the Internet Café; and visit with colleagues, leaders, and friends during the beverage and lunch breaks.

LOCATION AND HOURS

Exhibit Hall E, Level 800
Monday, April 20–Tuesday, April 21 9:15 am-4:00 pm
Wednesday, April 22 9:15 am-1:00 pm

The ARRS Store, Case of the Day, and Internet Café will move into the foyer outside the Commercial Exhibit Hall the afternoon of Wednesday, April 22. These resources will be available starting at 3:00 pm Wednesday afternoon through Friday, April 24 at 1:00 pm.

CLAIM CREDIT STATIONS AND INFORMATION DESK

All CME and SAM credits should be claimed at www.arrs.org/MeetingCredi. Attendees can claim their credit onsite at the Claim Credit Stations or from a laptop or mobile device. Assistance is available at the Claim Credit Information Desk.

LOCATION AND HOURS

FOyer, Level 800
Sunday, April 19 6:30 am-6:00 pm
Monday, April 20–Thursday, April 23 6:30 am-4:00 pm
Friday, April 24 6:30 am-1:00 pm

ELECTRONIC EXHIBITS

View the latest science including ARRS award-winning electronic exhibits and global partner society award winning exhibits

LOCATION AND HOURS

808, Level 800
Sunday, April 19–Thursday, April 23 6:30 am–7:00 pm
Friday, April 24 6:30 am–12:00 noon

SPEAKER READY ROOM

All speakers are required to check into the Speaker Ready Room to submit their presentation prior to giving their talk. All editing should be completed two hours prior to the start of a session.

LOCATION AND HOURS

703, Level 700
Saturday, April 18–Wednesday, April 22 6:30 am–6:00 pm
Thursday, April 23 6:30 am–4:30 pm
Friday, April 24 6:30 am–1:00 pm

ANNUAL MEETING BADGE

Registrants must wear their ARRS 2015 Annual Meeting badge at all times. Access to courses without a badge will be prohibited.

BUS SCHEDULE INFORMATION

Shuttle busses will run a loop during peak hours of the ARRS 2015 Annual Meeting from the York Street Entrance of the Fairmont Royal York Hotel to the entrance of South Metro Toronto Convention Centre.

LOCATION AND HOURS

Roundtrip service from the Front Street entrance of the Fairmont Royal York Hotel and the 500 Level of Metro Toronto Convention Centre, South Building

Sunday 5:45 am–9:00 am 3:00 pm–8:00 pm
Monday–Thursday 5:45 am–9:00 am 3:00 pm–6:00 pm
Friday 5:45 am–9:00 am

CELL PHONES AND ELECTRONIC DEVICES

As a courtesy to your fellow attendees, please set your cell phone to vibrate. Phone conversations should not be conducted in education sessions.

CHILD CARE

ARRS does not provide a children’s program or child care. For safety reasons, security will be notified if children are left unattended in any of the ARRS meeting space areas or public areas being used by ARRS for the meeting.

DISABILITIES

ARRS is committed to meeting all our attendees’ needs, which includes providing an accessible environment and accommodating needs of people with disabilities.

EMERGENCIES/FIRST AID

For fire and medical emergencies, the number to call is 416-585-8160 from the nearest house phone. Do not call 911 as responding emergency staff will not know the precise location required. Emergency numbers are posted on all house phones.

LOST AND FOUND

Any inquiries regarding lost and found items should be directed to Security Services at phone number 416-585-8360.

LUGGAGE CHECK

ARRS does not provide luggage check. Luggage should be checked at your hotel. For safety and security reasons, please do not bring luggage to any ARRS meeting space.

SMOKING POLICY

ARRS has a no-smoking policy for all of its meetings. This policy applies to all ARRS meeting space. Meetings. This policy applies to all ARRS meeting space used during the ARRS 2015 Annual Meeting.

VIDEOTAPING/PHOTOGRAPHY

Photography, recording, and videotaping of any society award-winning exhibits and global partner society award winning exhibits

LOCATION AND HOURS

808, Level 800
Sunday, April 19–Thursday, April 23 6:30 am–7:00 pm
Friday, April 24 6:30 am–12:00 noon

Follow us on Facebook and Twitter #ARRS15

Download the 2015 ARRS Meeting App from your App Store!

The Whole Meeting at Your Fingertips:

- Announcements
- My Schedule
- Daily Schedule
- Handouts
- Floor Plans
- Exhibit Hall
- Attendee List
- Abstracts
- Case of the Day
- Claim Credit
- Message an Attendee

#ARRS15
Registration and a separate fee are required for this course.

Funded by an unrestricted educational grant from Philips Healthcare and Siemens Corp.

LOCATION
Exhibit Hall F, Level 800

TARGET AUDIENCE
This activity is specifically designed to educate practicing radiologists of all core levels in dealing with patients who are acutely ill or injured. After attending the course, the participant is likely to enhance image interpretation skills, peer-reviewed data, and expert suggestions for best practice in image interpretation and communication.

LEARNING OUTCOMES
Upon completion of this course, participants will possess the knowledge and skills to:

- Identify the correct diagnosis confidently in dealing with ill patients.
- Develop a differential diagnosis, when necessary, and suggest the best management strategy.
- Apply practice-based strategies for optimizing patient outcomes.
- Describe systems barriers to improving diagnoses and patient outcomes.
- Analyze personal peer review data, define performance improvement strategies, and test those strategies in practice.

CREDITS
ARRS designates this live educational activity for a maximum of 20 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This activity is also qualified by the American Board of Radiology® in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program.

CANADIAN ASSOCIATION OF RADIOLOGISTS
The ARRS Categorical Course (Live Event) is an Accredited Self-Assessment Program (Section 3) as defined by the CME Program (Section 3) of the Royal College of Physicians and Surgeons of Canada (RCPSC), and has been approved by the Canadian Association of Radiologists (CAR) for a maximum of 0.5 credit hours for each presentation. The RCPSC recording system (MANIPORT) will automatically convert the credit hours for this program to three credits per claimed hour (0.5 hours x 3 = 1.50 credit hours).

Physicians should only claim credits commensurate with the extent of their participation in the activity.

SUNDAY, APRIL 19 | DOORS WILL OPEN 30 MINUTES BEFORE STARTING TIME

<table>
<thead>
<tr>
<th>7:30 AM-9:30 AM</th>
<th>ACUTE CARE</th>
<th>MODERATOR: DON YOO, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM – 8:00 AM</td>
<td>Nuclear Variants and Pitfalls in the Patient With Chest Pain</td>
<td>Don Yoo</td>
</tr>
<tr>
<td>8:00 AM – 8:30 AM</td>
<td>Cardiothoracic Imaging Pearls and Pitfalls</td>
<td>Smita Patel</td>
</tr>
<tr>
<td>8:30 AM – 9:00 AM</td>
<td>The Triple Rule-Out Protocols and Pitfalls</td>
<td>Diane Limanowski</td>
</tr>
<tr>
<td>9:00 AM – 9:30 AM</td>
<td>Cross-Sectional Imaging in the Diagnosis of Acute Aortic Syndrome</td>
<td>Costa Rapits</td>
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<tr>
<td>9:30 AM – 10:00 AM</td>
<td>DEBEVERAGE BREAK</td>
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<tr>
<td>10:00 AM – 12:00 PM</td>
<td>ABDOMEN</td>
<td>MODERATOR: CHRISTINE MENIAS, MD</td>
</tr>
<tr>
<td>10:00 AM – 10:30 AM</td>
<td>Imaging Gastric Bypass Patients: What You Don’t Want to Miss</td>
<td>Christine Menias</td>
</tr>
<tr>
<td>10:30 AM – 11:00 AM</td>
<td>Imaging the Elderly Patient With Abdominal Pain</td>
<td>Betina Siewert</td>
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<tr>
<td>11:00 AM – 11:30 AM</td>
<td>Imaging Hepatoplastic Emergencies</td>
<td>Stephen Anderson</td>
</tr>
<tr>
<td>11:30 AM – 12:00 NOON</td>
<td>Transplant Evaluations; What Not to Misdiagnose</td>
<td>Shweta Bhatt</td>
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<tr>
<td>12:00 NOON – 1:00 PM</td>
<td>LUNCH BREAK ON OUR OWN</td>
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<tr>
<td>1:00 PM – 3:00 PM</td>
<td>WOMEN’S IMAGING</td>
<td>MODERATOR: DEBORAH BAUMGARTEN, MD</td>
</tr>
<tr>
<td>1:00 PM – 1:30 PM</td>
<td>Acute Pelvic Pain</td>
<td>Sandra Allison</td>
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<tr>
<td>1:30 PM – 2:00 PM</td>
<td>Imaging a Woman With Abnormal Uterine Bleeding</td>
<td>Deborah Baumgarten</td>
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<td>2:00 PM – 2:30 PM</td>
<td>Where’s the Baby? First Trimester Emergencies</td>
<td>Katherine Richman</td>
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<tr>
<td>2:30 PM – 3:00 PM</td>
<td>Postpartum Bleeding and Pain</td>
<td>Phyllis Glick</td>
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<tr>
<td>3:00 PM – 3:30 PM</td>
<td>DEBEVERAGE BREAK</td>
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</table>

SUNDAY, APRIL 19 | CONTINUED

<table>
<thead>
<tr>
<th>3:30 PM – 5:30 PM</th>
<th>QA- MISSED ED CASES</th>
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</thead>
<tbody>
<tr>
<td>3:30 PM – 4:00 PM</td>
<td>Doses and UH-Ohs of Fetal Imaging in the Second and Third Trimesters</td>
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<tr>
<td>4:00 PM – 4:30 PM</td>
<td>Lessons From Abdominal MRI in the ED: The Pregnant Appy MRI</td>
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<tr>
<td>4:30 PM – 5:00 PM</td>
<td>Avoiding Misdiagnosis of Acute Gastrointestinal Imaging Tract Pathology at CT</td>
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<tr>
<td>5:00 PM – 5:30 PM</td>
<td>Vascular Ultrasound Pitfalls and Mimics</td>
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</tbody>
</table>

MONDAY, APRIL 20 | DOORS WILL OPEN 30 MINUTES BEFORE STARTING TIME

<table>
<thead>
<tr>
<th>7:30 AM – 9:30 AM</th>
<th>NEURO/RADIOLOGY</th>
<th>MODERATOR: JONATHAN KRUSKAL, MD</th>
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</thead>
<tbody>
<tr>
<td>7:30 AM – 8:00 AM</td>
<td>The Inception Patient</td>
<td>Carlos Torres</td>
</tr>
<tr>
<td>8:00 AM – 8:30 AM</td>
<td>The Worst Headaches: New Imaging Helps</td>
<td>Sean Symes</td>
</tr>
<tr>
<td>8:30 AM – 9:00 AM</td>
<td>Stroke and TIA: What You Need to Look For</td>
<td>Achala Vagal</td>
</tr>
<tr>
<td>9:00 AM – 9:30 AM</td>
<td>Hidni Infections: “Don’t Forget the ABC’s!”</td>
<td>Christine Gladstones</td>
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<tr>
<td>9:30 AM – 10:00 AM</td>
<td>DEBEVERAGE BREAK</td>
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<tr>
<td>10:00 AM – 12:00 PM</td>
<td>MUSCULOSKELETAL</td>
<td>MODERATOR: LAURA BANCROFT, MD</td>
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<tr>
<td>10:00 AM – 10:30 AM</td>
<td>Imaging the Urgent Spine</td>
<td>Cynthia Chiou</td>
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<tr>
<td>10:30 AM – 11:00 AM</td>
<td>MRI of Acute and Not-So-Cute Injuries: Knee to Wrists</td>
<td>Daniel Weissfuss</td>
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<tr>
<td>11:00 AM – 11:30 AM</td>
<td>Shoulder and Hip Injuries for the After-Hours Imager</td>
<td>Jin Wu</td>
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<tr>
<td>11:30 AM – 12:00 NOON</td>
<td>Imaging Workup of the Painful Joint</td>
<td>Laura Bancroft</td>
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<tr>
<td>12:00 NOON – 1:00 PM</td>
<td>LUNCH BREAK</td>
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<tr>
<td>1:00 PM – 3:00 PM</td>
<td>PEDIATRICS</td>
<td>MODERATOR: JANET REID, MD</td>
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<tr>
<td>1:00 PM – 1:30 PM</td>
<td>Sports Injuries in Teenagers</td>
<td>Victor Ho-Fung</td>
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<tr>
<td>1:30 PM – 2:00 PM</td>
<td>Imaging the Sick Newborn</td>
<td>Janet Reid</td>
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<tr>
<td>2:00 PM – 2:30 PM</td>
<td>The Child With Difficulty Breathing: Top 10 Diagnoses</td>
<td>Edward Law</td>
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<tr>
<td>2:30 PM – 3:00 PM</td>
<td>Imaging the Child With Abdominal Pain</td>
<td>Sudha Avinudi</td>
</tr>
<tr>
<td>3:00 PM – 3:30 PM</td>
<td>DEBEVERAGE BREAK</td>
<td></td>
</tr>
<tr>
<td>3:30 PM – 5:30 PM</td>
<td>QA- MISSED ED CASES</td>
<td>MODERATOR: ANA KIELAR, MD</td>
</tr>
<tr>
<td>3:30 PM – 4:00 PM</td>
<td>Pediatric Cases You Don’t Want to Miss</td>
<td>Lynn Fordhaim</td>
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<tr>
<td>4:00 PM – 4:30 PM</td>
<td>Musculoskeletal Interpretive Errors That We Can Learn From</td>
<td>Eric England</td>
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<tr>
<td>4:30 PM – 5:00 PM</td>
<td>MRI Problem Solving for Challenging Neuro-Cases Seen on CT</td>
<td>Kathleen Falk</td>
</tr>
<tr>
<td>5:00 PM – 5:30 PM</td>
<td>Abdominal Errors in the ED – A Canadian Perspective</td>
<td>Ana Kielar</td>
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</tbody>
</table>

TUESDAY, APRIL 21 | DOORS WILL OPEN 30 MINUTES BEFORE STARTING TIME

<table>
<thead>
<tr>
<th>7:30 AM – 9:30 AM</th>
<th>VASCULAR AND/OR INTERVENTIONAL RADIOLOGY</th>
<th>MODERATOR: MUNEEB AHMED, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM – 8:00 AM</td>
<td>Vascular and Interventional Radiology: What Went Wrong Today? – The IR Patient Returns</td>
<td>Muneeb Ahmed</td>
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<tr>
<td>8:00 AM – 8:30 AM</td>
<td>The Adolescent Patient Returns: Complications of Thermal Ablation</td>
<td>Meghan Lubner</td>
</tr>
<tr>
<td>8:30 AM – 9:00 AM</td>
<td>The Gastrointestinal Bleeder: Where Do We Start?</td>
<td>Keith Hiew</td>
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<tr>
<td>9:00 AM – 9:30 AM</td>
<td>Poky and Pertinent IR Questions After Hours</td>
<td>Ian Brennan</td>
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<tr>
<td>9:30 AM – 10:00 AM</td>
<td>DEBEVERAGE BREAK</td>
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</tr>
<tr>
<td>10:00 AM – 12:00 PM</td>
<td>ACUTE CARE</td>
<td>MODERATOR: KUMARESAN SANDRASEGARAN, MD</td>
</tr>
<tr>
<td>10:00 AM – 10:30 AM</td>
<td>Imaging for Right Upper Quadrant Pain</td>
<td>Allison Harris</td>
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<tr>
<td>10:30 AM – 11:00 AM</td>
<td>The Acute Scrotum</td>
<td>Theresa Weber</td>
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<tr>
<td>11:00 AM – 11:30 AM</td>
<td>The Acutely Jaundiced Patient</td>
<td>Michael Blake</td>
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<tr>
<td>11:30 AM – 12:00 NOON</td>
<td>Oncologic Emergencies: What the Radiologist Needs to Know</td>
<td>Kumaresan Sandrasegaran</td>
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# 2015 Approach to Diagnosis

## A Case-Based Imaging Review Course

**Registration and a separate fee are required for this course.**

**LOCATION**
Exhibit Hall F, Level 800

**COURSE CHAIRS**
Sanjeev Bhalla, MD and Lonie R. Salkowski, MD

**TARGET AUDIENCE**
The target audience for this activity includes in-training radiologists preparing for exams and active practice, as well as practicing radiologists with an interest in honing their diagnostic skills.

**STATEMENT OF NEED**
Approach to Diagnostic: A Case Based Imaging Review (“Review Course”) is designed to prepare initial and recertifying radiologists for the Diagnostic Radiology and Diagnostic Radiology Subspecialty Exams. This course is designed at its core to offer knowledge every competent practicing radiologist needs to know in order to treat patients competently and confidently. Needs sources include the ABR exam blueprints, prior attendee course evaluations, clinical practice guidelines, peer reviewed literature, and expert defined needs.

**LEARNING OUTCOMES**
Upon completion of this course, participants will possess the knowledge and skills to:

- Develop differential diagnoses for conditions in 11 radiology subspecialties.
- Recognize the imaging and clinical features that allow for refinement of differential diagnosis allowing for a more specific diagnosis.
- Recognize some commonly encountered imaging artifacts in the subspecialties, and describe why they occur and the techniques to avoid them.
- Confidently make management decisions affecting a variety of commonly encountered clinical scenarios.

**CREDITS**
ARRS designates this live educational activity for a maximum of 22 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## CANADIAN ASSOCIATION OF RADIOLOGISTS

The ARRS Case-Based Imaging Review Course is an Accredited Self-Assessment Program (Section 3) as defined by the NEW Maintenance of Certification program (MOC) of the Royal College of Physicians and Surgeons of Canada (RCPSC), and has been approved by the Canadian Association of Radiologists (CAR) for a maximum of 2 credit hours for each presentation.

The RCPSC recording system (MAINPORT) will automatically convert the credit hours for this program to three credits per claimed hour (2 hours x 3 = 6 credit hours). Physicians should only claim credits commensurate with the extent of their participation in the activity.

## TUESDAY, APRIL 21 | DOORS WILL OPEN 30 MINUTES BEFORE STARTING TIME.

<table>
<thead>
<tr>
<th>Time</th>
<th>Vascular and/or Interventional Radiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:30 PM – 5:30 PM</td>
<td>TIP, Portal Hypertension, and Gastrointestinal Imaging Bleeding: Saken Naito, Section Chair</td>
</tr>
<tr>
<td></td>
<td>Arterial Disease: J. Mark McKinney</td>
</tr>
<tr>
<td></td>
<td>Venous Disease: Elizabeth Ignacio</td>
</tr>
<tr>
<td></td>
<td>Neuroradiology Disease: Matthew Glasgow</td>
</tr>
<tr>
<td></td>
<td>Interventional Oncology: Neil Saad</td>
</tr>
</tbody>
</table>

## WEDNESDAY, APRIL 22 | DOORS WILL OPEN 30 MINUTES BEFORE STARTING TIME.

<table>
<thead>
<tr>
<th>Time</th>
<th>Gastrointestinal Imaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM – 9:30 AM</td>
<td>Disorders in the Liver: Hepatic Lesion Characterization: Peter Liu, Section Chair</td>
</tr>
<tr>
<td></td>
<td>Splenic: Myra Feldman</td>
</tr>
<tr>
<td></td>
<td>Pancreas: Neil Hansen</td>
</tr>
<tr>
<td></td>
<td>Mesenteric and Peritoneum: Ryan O’Malley</td>
</tr>
<tr>
<td></td>
<td>Small Bowel: Shane Hells</td>
</tr>
<tr>
<td>10:00 AM – 12:00 NOON</td>
<td>Genitourinary Imaging</td>
</tr>
<tr>
<td></td>
<td>Uterus/ovary/Endometriosis, Renal Cell Carcinoma: Courtney Moore, Section Chair</td>
</tr>
<tr>
<td></td>
<td>Female Pelvis: Sarah Erickson</td>
</tr>
<tr>
<td></td>
<td>Male Pelvis: Matthew Heller</td>
</tr>
<tr>
<td></td>
<td>Kidney/Collecting System: Frederick Souza</td>
</tr>
<tr>
<td></td>
<td>Retropertioneum: Mitch Gulati</td>
</tr>
</tbody>
</table>

## THURSDAY, APRIL 23 | DOORS WILL OPEN 30 MINUTES BEFORE STARTING TIME.

<table>
<thead>
<tr>
<th>Time</th>
<th>Breast Imaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 PM – 3:00 PM</td>
<td>BI-RADS Update, High Risk Lesions: Tanya Moseley, Section Chair</td>
</tr>
<tr>
<td></td>
<td>Calcifications: Jennifer Kuhl</td>
</tr>
<tr>
<td></td>
<td>Breast Ultrasound: Rhali Rakhar</td>
</tr>
<tr>
<td></td>
<td>Breast MRI: Osama Lanksy</td>
</tr>
<tr>
<td></td>
<td>Breast Masses: Colleen Neal</td>
</tr>
<tr>
<td>3:30 PM – 5:30 PM</td>
<td>Neuroradiology</td>
</tr>
<tr>
<td></td>
<td>Diffusion Tensor Imaging (DTI), MR Perfusion: Sanjit Pruthi, Section Chair and Megan Strother</td>
</tr>
<tr>
<td></td>
<td>Brain: Megan Strother</td>
</tr>
<tr>
<td></td>
<td>Spine: Frank Mejia</td>
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<tr>
<td></td>
<td>Head and Neck: Kristen Baugnon</td>
</tr>
<tr>
<td></td>
<td>Trauma: Kathleen Fink</td>
</tr>
</tbody>
</table>

## FRIDAY, APRIL 24 | DOORS WILL OPEN 30 MINUTES BEFORE STARTING TIME.

<table>
<thead>
<tr>
<th>Time</th>
<th>Nuclear Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM – 9:30 AM</td>
<td>Nuclear Medicine Treatments, Radioisotopes: Jonathan McConathy</td>
</tr>
<tr>
<td></td>
<td>PET/CT: David Nguyen, Section Chair</td>
</tr>
<tr>
<td></td>
<td>Endocrine/Thyroid: Yasir Hussain</td>
</tr>
<tr>
<td></td>
<td>Whole Body Imaging: Jonathan McConathy</td>
</tr>
<tr>
<td></td>
<td>Abdominal: Sponsor Bahr</td>
</tr>
<tr>
<td>10:30 AM – 12:30 PM</td>
<td>Cardiovascular Imaging</td>
</tr>
<tr>
<td></td>
<td>Aneurysm: Coronary Arteries, Delayed Contrast-Enhanced Cardiac MRI: Christopher Cummings, Section Chair</td>
</tr>
<tr>
<td></td>
<td>Coronary and Pericardiun: Jarek Chetissen</td>
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<tr>
<td></td>
<td>Myocardial: Karen Ontkoski</td>
</tr>
<tr>
<td></td>
<td>Valves: Aamir Shah</td>
</tr>
<tr>
<td></td>
<td>Great Vessels: Travis Henry</td>
</tr>
</tbody>
</table>
ARRS wishes to recognize and thank the following Global Partner Societies.

Chinese Taipei Society of Radiology
Royal Australian and New Zealand College of Radiologists
Colombian Association of Radiology
Korean Society of Radiology
Brazilian College of Radiology and Diagnostic Imaging
Japan Radiological Society
Spanish Society of Medical Radiology
Chinese Society of Radiology
Radiological Society of South Africa
Singapore Radiological Society
Argentina Society of Radiology
Mexican Society of Radiology and Imaging

DAILY SCHEDULE
SUNDAY, APRIL 19

7:30 am–5:30 pm
CATEGORICAL COURSE
The Dark Side of Radiology: Multispecialty After-Hours Imaging
Registration and a separate fee is required for this course
Course Directors: Jonathan Kruskal, MD; Christine Menias, MD
Location: Exhibit Hall F, Level 800

8:00 am–10:00 am
Breast Imaging Great Debate: Screening Mammography Controversies
Course Director: Charles E. Kahn, Jr., MD, MS
Location: 701A, Level 700
Tracks: BR, MO
2 CME credits, 2 SAM credits

The controversies regarding the benefits and potential harms of screening mammography rage on, spurred in part by the recent Canadian study that raised serious concerns about the value of such screening. At the ARRS 2015 Great Debate, you will see and listen first-hand to the authors and critics of this study, and thus be able to judge for yourselves whether governmental and ACR/ACS recommendations regarding routine mammography screening should or should not be altered.

Learning Objectives:
• Understand the design, results, and conclusions of the Canadian National Breast Screening Study (CNBSS).
• Compare the design, results, and conclusions of the CNBSS with those of other randomized breast cancer screening studies.
• Consider how best to advise patients regarding the benefits and harms of breast cancer screening.

Featured Speakers:
Cornelia J. Baines, MD, MSc, FACE
Professor Emeritus, Dalal Lana Faculty of Public Health, University of Toronto
Daniel Kopans, MD
Professor of Radiology, Harvard Medical School, Senior Radiologist, Breast Imaging Division, Department of Radiology, Massachusetts General Hospital, Avon Comprehensive Breast Evaluation Center
Paula Gordon, ORC, MD FRCP, FSBi
Clinical Professor, University of British Columbia Medical Director, Sadie Diamond Breast Program, BC Women’s Hospital
Anthony Miller, MD
Director, Canadian National Breast Screening Study, Professor Emeritus, Dalal Lana School of Public Health, University of Toronto

8:00 am–3:00 pm
Hip Ultrasound: Lectures and Hands-On Workshop
Course Director: Jon Jacobson, MD
Location: 801A, Level 800
Tracks: MR, US
5.5 CME credits
Target Audience:
Any physicians who will be involved in diagnostic musculoskeletal ultrasound evaluations. Participants may include (but are not limited to) physicians working in rheumatology, sports medicine, podiatry, athletic training, orthopedics, emergency medicine, radiology, internal medicine, primary care, and chiropractic medicine. Participants must have a minimum of 3 months scanning experience or have attended an intro-level musculoskeletal hands-on course before attending this program. This hands-on advanced musculoskeletal ultrasound skills training program includes hands-on scanning featuring live models and inanimate phantoms for injection and aspiration techniques. The 3:1 instructor to participant ratio ensures individual attention during this hands-on advanced musculoskeletal ultrasound educational seminar.

Learning Objectives:
At the completion of the program the participant should be able to:
• Increase the participant’s knowledge to better perform and/or interpret musculoskeletal ultrasound exams.
• List the use of musculoskeletal sonography for diagnosis and ultrasound-guided interventions for rheumatology, sports medicine, and physical medicine and rehabilitation applications.
• Demonstrate techniques and protocols for performing shoulder, elbow, wrist/hand, ankle/foot, and adult hip and spine sonography.
• Identify the sonoanatomic appearance of commonly seen pathology of the adult hip.
• Demonstrate injection and aspiration techniques using inanimate phantoms.
• Interpret complex musculoskeletal ultrasound images and list treatment options and patient management strategies.
• List potential future musculoskeletal ultrasound applications.
• Increase confidence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

9:30 am–10:00 am
BEVERAGE BREAK | FOYERS, LEVEL 700 AND 800
DAILY SCHEDULE

SUNDAY, APRIL 19

10:00 am–12:00 Noon
Business Seminar
How the Radiologist Adds Value
Course Director: Kenneth Buckwalter, MD
S. Halabi, J. Eng, J. Berlin, R. Helsper, S. Sani
Location: 713AB, Level 700
Tracks: HP, SD
2 CME credits

Target Audience:
Radiologists, radiologists-in-training, and other health professionals with an interest in the business and management of a radiology practice.

Learning Objectives:
Upon completion of this course, participants will possess the knowledge and skills to:
• Understand the value of decision support and patient-centered communication.
• Describe the use of structured radiology reports.
• Articulate the value of radiology department activities to hospitals and other business partners.
• Learn how to remain optimistic about the future of radiology by focusing on core values.

Presentation Schedule:
Clinical Decision Support and Patient-Centered Communication – S. Halabi

What Do Hospitals Want From Radiologists? – R. Helsper

Do Structured Radiology Reports Add Value? – J. Eng

Beyond Turn-Around Time: Measuring the Added Value of Radiology Services – S. Sani

Six Reasons to be Optimistic About the Future of Radiology (and Radiologists) – J. Berlin

Education Seminar
Teaching to the New Generation
Course Director: Angelisa Paladin, MD
A. Kamer, P. Slanetz, K. Shaffer
Location: 714AB, Level 700
Tracks: ED
2 CME credits

Target Audience:
Radiology educators, learners, and leaders seeking to better understand the target audience.

Learning Objectives:
At the conclusion of this program, attendees should be able to:
• Demonstrate improved teaching and presentation skills.
• Apply new techniques to enhance education and training in their practice setting, either academic or private.
• Appraise educational papers that will aid in enhancing education and training.

Learning Objectives:
Upon completion of this course, participants will possess the knowledge and skills to:
• Demonstrate current roles of CT, MRI, CTA, MRA, CT perfusion, MR perfusion, and susceptibility-weighted MRI in evaluating patients with hyperacute, acute, and subacute strokes.
• Describe the major risk factors with respect to carotid plaque for development of thromboembolic stroke.
• Define the outcomes of large epidemiologic studies such as MESA, ARIC, and VALIDATE and what they have shown regarding stroke risk from carotid plaque.
• Apply scanning techniques and patient safety protocols to minimize radiation dosage in routine and complex stroke cases.
• Review current processes for new device approval by the FDA and make recommendations for submissions and revisions.

3:00 pm–3:30 pm
BeVERAGE Break – FOYERS, LEVEL 700 AND 800

3:30 pm–4:30 pm
Radiology Year in Review
A. Ha, A. Rosenkrantz, M. Castillo
Location: 801B, Level 800
Tracks: ED
1 CME credit

Target Audience:
Radiologists, radiologists-in-training, and other health professionals with an interest in the application of the radiologic sciences, radiology practice, medical education, professionalism, patient safety, and other noninterpretable skills.

Learning Objectives:
Upon completion of this course, participants will possess the knowledge and skills to understand and respond to contemporary practice management issues and challenges facing radiology.

5:45 pm–7:15 pm
OpenInG Ceremonies and MemBer Business Meeting
Location: 701A, LEVEL 700

1:00 pm–3:30 pm
Stroke Imaging: Latest Clinical Advances, Patient Safety, and Policy
Course Director: David Yusen, MD
K. Vo, A. Tros, A. Vagel, C. Lum, B. Wasserman, A. Gupta, Y. Ols, J. Hirsch, M. Castillo
Location: 701A, Level 700
Tracks: NR
2 CME credits

Target Audience:
Radio logicals, radiologists-in-training, and other health professionals with an interest in the latest clinical advances, patient safety and policies of stroke imaging.

Learning Objectives:
• Describe current roles of CT, MRI, CTA, MRA, CT perfusion, MR perfusion, and susceptibility-weighted MRI in evaluating patients with hyperacute, acute, and subacute strokes.
• Describe the major risk factors with respect to carotid plaque for development of thromboembolic stroke.
• Define the outcomes of large epidemiologic studies such as MESA, ARIC, and VALIDATE and what they have shown regarding stroke risk from carotid plaque.
• Apply scanning techniques and patient safety protocols to minimize radiation dosage in routine and complex stroke cases.
• Review current processes for new device approval by the FDA and make recommendations for submissions and revisions.

7:00 am–8:00 am
Power Hour: Neuroradiology
Location: 701B, Level 700
1 CME credit

Power Hour: Chest Imaging
Location: 714AB, Level 700
1 CME credit

7:30 am–5:30 pm
CATEGORICAL COURSE
The Dark Side of Radiology: Multispecialty After-Hours Imaging
Registration and a separate fee is required for this course
Course Directors: Jonathan Kruskal, MD; Christine Menias, MD
Location: Exhibit Hall F, Level 800
8:30 am–10:00 am
IC101. SPECT CT in Cardiac, Bone, and Endocrine Disorders
K. Banks, M. Osman, A. Sheikh
Location: 801A, Level 800
Tracks: NM
1.5 CME credits

IC102. Skull Base Imaging: Anatomy, Pearls, and Pitfalls
A. Sinivasan, T. Kennedy, R. Wiggins
Location: 701A, Level 700
Tracks: NR, HH
1.5 CME credits

IC103. Optimizing Outcomes in Interventional Oncology
D. Maddox, J. McWilliams, R. Lee
Location: 701B, Level 800
Tracks: VI
1.5 CME credits

IC104. SPM and Lung Cancer: Update in Classification, Morphology, and Staging
B. Carter, M. Goday, J. Ko
Location: 713AB, Level 700
Tracks: CH, CT
1.5 CME credits

SS01. Efficacy/Admnistration/Informatics: Practice and Administration
Keysnotes: Methodologies in Medical Education Studies – P. Cronin; The Art of the Image Consult: Maximizing the Clerkship Experience – C. Greco
Location: 701B, Level 700
1.5 CME credits

SS04. Gastrointestinal Imaging: Focal Liver Disease
Keysnotes: Update on Liver Ablation – L. Hessow; Liver Ultrasound with Contrast – J. Wilborn: The Influence of Vasculogenesis (Aerobic and Glycolytic) CT and MRI – J. Haaga
Location: 801A, Level 800
1.5 CME credits

12:00 Noon–1:00 pm
LUNCH in Exhibit Hall – Exhibit Hall E, Level 800

MONDAY, APRIL 20 | MORNING

7:00 am–8:00 am
Power Hour: Neuroradiology
Location: 701B, Level 700
1 CME credit

Power Hour: Chest Imaging
Location: 714AB, Level 700
1 CME credit

9:30 am–10:30 am
BeVERAGE break – EXHIBIT HALL E, LEVEL 800

10:30 am–12:00 Noon
IC105. Pediatric Neck Masses and Inflammation
K. Koral, J. Nixon, U. Udayasankar
Location: 713AB, Level 700
Tracks: PD, HH, MR, CT
1.5 CME credits, 1.5 SAM credits

IC106. Essentials of Endoscopic Sinus Surgery Imaging
M. Michel, D. Shatzkes
Location: 801B, Level 800
Tracks: HH, NR
1.5 CME credits

IC107. First Trimester and Gynecologic Ultrasound
D. Bhatiawal, L. Scoutt, D. Wolfman
Location: 701A, Level 700
Tracks: US, GI, OB
1.5 CME credits, 1.5 SAM credit

IC108. HRT: Basics: Case Interpretations
K. Cummings, B. Little, D. Manos
Location: 713AB, Level 700
Tracks: CH, CT
1.5 CME credits

S502. General and Emergency Radiology
Keysnotes: Emergency Radiology Examination for the MO – L. Omari-Johnson; Distractions in the Reading Room – S. Sternburg
Location: 714AB, Level 700
1.5 CME credits

9:30 am–10:30 am
BeVERAGE break – EXHIBIT HALL E, LEVEL 800

10:30 am–12:00 Noon
IC109. Optimal Use of Established Structures Imaging
K. Shaffer, J. Berlin, S. Halabi; The Imaging Practice of the Future - N. Safdar
Location: FOYERS, LEVEL 700 AND 800
Tracks: VI
1.5 CME credits

IC110. Skeletal and Musculoskeletal Imaging
M. Oakes, A. Rosenkrantz, J. Berlin
Location: 801B, Level 800
Tracks: VI
1.5 CME credits

IC111. Interventional Radiology: Vascular, Interventional
K. Vo, A. Tros, A. Vagel, C. Lum, B. Wasserman, A. Gupta, Y. Ols, J. Hirsch, M. Castillo
Location: 701A, Level 700
Tracks: NR
2 CME credits

Target Audience:
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• Describe the use of structured radiology reports.
• Articulate the value of radiology department activities to hospitals and other business partners.
• Learn how to remain optimistic about the future of radiology by focusing on core values.

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What Do Hospitals Want From Radiologists? – R. Helsper

Do Structured Radiology Reports Add Value? – J. Eng

Beyond Turn-Around Time: Measuring the Added Value of Radiology Services – S. Sani

Six Reasons to be Optimistic About the Future of Radiology (and Radiologists) – J. Berlin
**DAILY SCHEDULE**

**TUESDAY, APRIL 21 | AFTERNOON**

3:00 pm–3:30 pm
Q5101. Quality and Safety in Radiology, Part 1
M. Bruno, M. Parker, E. Walker, H. Abujudeh, N. Kadom
Location: 701A, Level 700
Tracks: PS, HP
2 CME credits, 2 SAM credits

3:30 pm–5:00 pm
IC212. Mistakes We Make in Practice and How to Deal With Them Appropriately
R. Eisenberg, M. Bruno
Location: 801A, Level 800
Tracks: ED, HP
1.5 CME credits

**DAILY SCHEDULE**

**WEDNESDAY, APRIL 22 | MORNING**

7:00 am–8:00 am
**POWER HOUR: Genitourinary Imaging**
Location: 701A, Level 700
1 CME credit

7:00 am–9:00 am
**POWER HOUR: General and Emergency Radiology**
Location: 714AB, Level 700
1 CME credit

7:30 am–5:30 pm
**An Approach to Diagnosis: A Case-Based Imaging Review**
Registration and a separate fee is required for this course
Location: Exhibit Hall F, Level 800

**DAILY SCHEDULE**

**TUESDAY, APRIL 21 | MORNING**

9:00 am–10:00 am
**SS15. Chest Imaging**
1.5 CME credits
Location: 701B, Level 700
– A. Chhabra
Nerves
Pubic Symphyseal Pathology
1.5 CME credits, 1.5 SAM credits
Location: 713AB, Level 700
1.5 CME credits

**DAILY SCHEDULE**

**THURSDAY, APRIL 23 | AFTERNOON**

3:00 pm–5:30 pm
**An Approach to Diagnosis: A Case-Based Imaging Review**
Registration and a separate fee is required for this course
Location: Exhibit Hall F, Level 800

**DAILY SCHEDULE**

**FRIDAY, APRIL 24 | MORNING**

7:00 am–8:00 am
**POWER HOUR: Breast Radiology**
Location: 701A, Level 800
1 CME credit

7:00 am–9:00 am
**POWER HOUR: General and Emergency Radiology**
Location: 714AB, Level 700
1 CME credit
**DAILY SCHEDULE**

**WEDNESDAY, APRIL 22 | AFTERNOON**

1:30 pm–3:00 pm  
**IC309. Shoulder Imaging**  
K. Buckwalter, B. Huang, J. Benardino, C. Chung  
Location: 714AB, Level 700  
Tracks: ED, MR

1:30 pm–3:00 pm  
**IC310. MDCT for Vascular Trauma**  
F. Munera, C. Silos, M. Bernstein  
Location: 713AB, Level 700  
Tracks: ER, CH, NR, VI

1:30 pm–3:00 pm  
**IC311. Problem Solving in Pediatric Emergencies**  
P. Kakarakis, R. Goodman, L. Fenton  
Location: 801A, Level 800  
Tracks: PD, GI, US, MR

1:30 pm–3:00 pm  
**IC312. Emergency Abdominal Imaging**  
W. Thompson, J. Hines, M. Patlas, M. Moshiri  
Location: 701B, Level 700  
Tracks: GI, OB, ER, US

1:30 pm–3:00 pm  
**IC313. Cross-Sectional Genitourinary Imaging**  
D. Sahani, N. Hindman, A. Rosenkrantz  
Location: 701A, Level 700  
Tracks: GU, CT, MR

1:30 pm–3:00 pm  
**IC314. Pitfalls in Musculoskeletal Imaging**  
D. Morgan, L. Shin, K. Sandrasegaran, E. Tamm  
Location: 713AB, Level 700  
Tracks: GI, CH, MR

1:30 pm–3:00 pm  
**IC316. Improving Education: Management of Contrast Reactions**  
V. Vartanians, B. Nebel  
Location: 801A, Level 800  
Tracks: ED, HP

1:30 pm–3:00 pm  
**IC317. Pediatric Imaging: Musculoskeletal Pitfalls**  
J. MacKenzie, R. Restrepo, M. Dempsey  
Location: 801B, Level 800  
Tracks: PD, MK, RF, MR

1:30 pm–3:00 pm  
**IC318. Advanced Pancreatic Imaging**  
D. Morgan, L. Shin, K. Sandrasegaran, E. Tamm  
Location: 701B, Level 700  
Tracks: GI, CT, MR

1:30 pm–3:00 pm  
**IC319. PET CT: Imaging Challenges**  
D. Naeger, M. Huang, C. Viswanathan  
Location: 713AB, Level 700  
Tracks: CH, PT, CT

3:00 pm–3:30 pm  
**BEVERAGE BREAK | FOYERS, LEVEL 700 AND 800**

**DAILY SCHEDULE**

**THURSDAY, APRIL 23 | MORNING**

9:30 am–10:30 am  
**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

7:30 am–5:30 pm  
**An Approach to Diagnosis: A Case-Based Imaging Review**  
Registration and a separate fee is required for this course

7:00 am–8:00 am  
**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

9:30 am–10:30 am  
**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

9:30 am–10:30 am  
**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

9:30 am–10:30 am  
**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

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**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

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**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

9:30 am–10:30 am  
**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

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**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

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Location: 714AB, Level 700  
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**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
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Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

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Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

9:30 am–10:30 am  
**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit

9:30 am–10:30 am  
**POWER HOUR: Breast Imaging**  
Location: 714AB, Level 700  
1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
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1 CME credit

**POWER HOUR: Pediatric Imaging**  
Location: 701A, Level 700  
1 CME credit
THURSDAY, APRIL 23 | AFTERNOON

1:30 pm–3:00 pm
IC409. Update on MDCT for Abdominal Trauma
J. Soto, I. Uyeda, M. Paltas, J. Gross
Location: 714AB, Level 700
Tracks: ER, GI, GU
1.5 CME credits

IC410. Innovative Approaches to IR Practice
A. Nemcek, R. Hub, V. Guo
Location: 713AB, Level 700
Tracks: VI
1.5 CME credits, 1.5 SAM credit

IC411. Musculoskeletal Imaging: Hip Imaging
M. Bredella, D. Rubin, E. Boger
Location: 701A, Level 700
Tracks: MK, MR
1.5 CME credits

SS21. Genitourinary Imaging: Reproduction/Endocrine
Location: 701B, Level 700
1.5 CME credits

SS22. Vascular and/or Interventional Radiology
Location: 801A, Level 800
Tracks: NR, HN
1.5 CME credits

SS23. Musculoskeletal Imaging: Interventions and Spine
Location: 801B, Level 800
1.5 CME credits

SS24. Genitourinary Imaging: Renal Masses
Keynotes: Tumors and Tumor-Like Conditions of the Urinary Bladder Beyond Urothelial Carcinoma – P. Nikaidoh, PE/IVC in the Genitourinary Tract: Applications and Technology – S. Shah
Location: 701B, Level 700
1.5 CME credits

SS25. Pediatric Imaging
Keynotes: Advances in Pediatric Ultrasound: An Update – K. Darge
Location: 701A, Level 700
1.5 CME credits

3:00 pm–3:30 pm
BEVERAGE BREAK | FOYERS, LEVEL 700 AND 800

3:30 pm–5:00 pm
IC412. Hepatic Cross-Sectional Imaging II
E. Markle, P. Bhargava, R. Do
Location: 701A, Level 700
Tracks: GI, MR, CT, US
1.5 CME credits

IC413. Spine Tumors: Secrets to Differential Diagnosis
K. Salzman, L. Shah
Location: 714AB, Level 700
Tracks: NR, HH
1.5 CME credits

IC414. Evaluation of the Postsurgical Breast
A. Nees, T. Mosley
Location: 713AB, Level 700
Tracks: BR, NR, US, MR
1.5 CME credits, 1.5 SAM credits

IC415. Cardiac CT in the Acute Setting and Radiation Issues
B. White, W. Paul
Location: 801A, Level 800
Tracks: CA, CT
1.5 CME credits

SS26. Breast Imaging: Tomosynthesis; Tissue Density Analysis
Location: 701B, Level 700
1.5 CME credits

SS27. Cardiac Imaging
Keynotes: State of the Art SAVR Imaging – B. Kucharczyk, Cardiac Diagnoses in the ED: Pneus and Pitfalls – M. Atalay
Location: 801B, Level 800
1.5 CME credits

SS28. Genitourinary Imaging: Prostate and General
Keynotes: Gastrointestinal Hemorrhage: IR Perspective – R. Arellano, Gastrointestinal Hemorrhage: IR Perspective – R. Arellano
Location: 701A, Level 700
Tracks: BR, GI, US, MR
1.5 CME credits

SS29. Vascular and/or Interventional Radiology
Keynotes: Gastrointestinal Hemorrhage: IR Perspective – R. Arellano, Gastrointestinal Hemorrhage: IR Perspective – R. Arellano
Location: 701B, Level 700
Tracks: BR, GI, US, MR
1.5 CME credits

SS30. Noncoronary Cardiac Imaging
Keynotes: Gastrointestinal Hemorrhage: IR Perspective – R. Arellano, Gastrointestinal Hemorrhage: IR Perspective – R. Arellano
Location: 701B, Level 700
Tracks: BR, GI, US, MR
1.5 CME credits

SS31. Cardiac Imaging
Keynotes: State of the Art SAVR Imaging – B. Kucharczyk, Cardiac Diagnoses in the ED: Pneus and Pitfalls – M. Atalay
Location: 801B, Level 800
1.5 CME credits

7:00 am–8:00 am
POWER HOUR: Vascular and/or Interventional Radiology
Location: 701B, Level 700
1 CME credit

7:30 am–12:30 pm
An Approach to Diagnosis: A Case-Based Imaging Review
Registration and a separate fee is required for this course
Location: Exhibit Hall F, Level 800
8:30 am–10:00 am
IC501. Imaging the Injured Pediatric Athlete
K. Davis, C. Strickland, L. Ladd
Location: 701A, Level 700
Tracks: MK, MR
1.5 CME credits

IC502. Controversies in Abdominal Imaging
K. Davis, C. Strickland, L. Ladd
Location: 701A, Level 700
Tracks: MK, MR
1.5 CME credits

IC503. Noncoronary Cardiac Imaging
Keynotes:  Gastrointestinal Hemorrhage: IR Perspective – R. Arellano, Gastrointestinal Hemorrhage: IR Perspective – R. Arellano
Location: 701B, Level 700
Tracks: BR, GI, US, MR
1.5 CME credits

IC504. Imaging Evaluation of Musculoskeletal Injuries
O. West, B. Khurana, M. Kumaravel
Location: 713AB, Level 700
Tracks: CA, MR, CT
1.5 CME credits

IC505. Multimodality Imaging of the Biliary Tract
R. Arellano, J. Ritner
Location: 701A, Level 700
Tracks: BR, GI, US, MR
1.5 CME credits

IC506. Pitfalls in Breast Imaging
A. Laureano, J. Ritner
Location: 801A, Level 800
Tracks: VI
1.5 CME credits

IC507. Palliative Procedures in Interventional Radiology
R. Paspulati, S. Shah
Location: 714AB, Level 700
Tracks: BR, NR, US, MR
1.5 CME credits

IC508. Musculoskeletal Imaging: Core Injuries
P. Robinson, I. Mala, A. Jaza
Location: 701A, Level 700
Tracks: MK, US, MR
1.5 CME credits

IC509. Musculoskeletal Imaging: Core Injuries
P. Robinson, I. Mala, A. Jaza
Location: 701A, Level 700
Tracks: MK, US, MR
1.5 CME credits

IC510. Musculoskeletal Imaging: Core Injuries
P. Robinson, I. Mala, A. Jaza
Location: 701A, Level 700
Tracks: MK, US, MR
1.5 CME credits

7:00 am–5:00 pm
POWER HOUR: Vascular and/or Interventional Radiology
Location: 701B, Level 700
1 CME credit

7:30 am–12:30 pm
An Approach to Diagnosis: A Case-Based Imaging Review
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Location: Exhibit Hall F, Level 800
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MARC K. WILLIS, DO

Introduction by Jonathan S. Lewin, MD

A native of Melbourne, Australia, Paul A. Bottomley is a pioneer in the development of MRI technology. While earning his PhD in physics at Nottingham University, he was one of the three original projects that began MRI and performed the initial work on RF-field and power deposition in human MRI. Dr. Bottomley was a member of visionary Raymond Andrew’s group, which, along with that of Peter Mansfield, built the first MRI system producing radiographic-quality images of the human wrist. After completing his PhD, he adapted MRI for spatially localized spectroscopy (MRS) for Johns Hopkins University, using surface coils to demonstrate metabolite depletion and reversal in regional myocardial ischemia. Dr. Bottomley later joined the General Electric Research Center in Schenectady, NY, which built the first high-field whole-body MRI/MRS scanner, overcoming problems of coil design, RF penetration, and the ratio of signal to noise. In addition to these and countless other achievements, Dr. Bottomley has published approximately 180 peer-reviewed papers and holds nearly 50 patents. He is an ISMRM Fellow and Gold Medal recipient, and a General Electric Gold Patent and Coolidge Fellowship awardee.

WILLIAM G. BRADLEY, JR., MD, PHD

Introduction by Anton N. Hasso, MD

William G. Bradley, Jr., is professor and chairman of the department of radiology at the University of California, San Diego. He earned a Bachelor of Science degree at the California Institute of Technology and a PhD at Princeton University, and completed his medical training at the University of California, San Francisco. He is an ISMRM president and has received its two highest honors for his research: Gold Medal and Honorary Member. Dr. Bradley has also received gold medals from the Radiological Society of North America (RSNA) and the American College of Radiology (ACR). He has served as a member of the board of trustees of the RSNA Research and Education Foundation and as chairman of its Fund Development Committee. Dr. Bradley also served on the ACR board of chancellors, where he chaired the Commission on Neuroradiology and MRI and served as vice president. He is presently a member of the boards of the International Society for Strategic Studies in Radiology, the Association of University Radiologists, the Academy of Radiology Research, and the Academy of Radiology Leadership and Management. Dr. Bradley has published more than 200 papers, 54 chapters, and 21 textbooks.

JAMES A. BRINK, MD

Introduction by Philip Costello, MD

James A. Brink is radiologist-in-chief at the Massachusetts General Hospital (MGH) and is the Juan M. Taveras professor of radiology at Harvard Medical School. Dr. Brink earned a Bachelor of Science degree in electrical engineering at Purdue University and his MD at Indiana University before completing his residency and fellowship at MGH. He joined the faculty of the Mallinckrodt Institute of Radiology at the Washington University School of Medicine, where he rose to the rank of associate professor prior to joining the faculty at Yale University. Dr. Brink served as chair of the Yale Department of Diagnostic Radiology and then returned to MGH in his current position. Dr. Brink is a fellow of the Society for Computed Body Tomography/Magnetic Resonance, the American College of Radiology (ACR), and is past president of ARRS. He serves as vice-chair of the ACR Board of Chancellors and as scientific vice-president for the National Council for Radiation Protection and Measurements. While he has broad experience in medical imaging, including utilization and management of imaging resources, Dr. Brink has particular interest and expertise in issues related to the monitoring and control of medical radiation exposure.

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PAUL A. BOTTOMLEY, PHD

Introduction by Jonathan S. Lewin, MD

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OPENING CEREMONIES
SUNDAY, APRIL 19, 2015 | 5:45 PM–7:15 PM | LOCATION: 701B, LEVEL 700

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Exhibit Hall E, Level 800

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<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Schedule</th>
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<tbody>
<tr>
<td>Monday, April 20</td>
<td>9:15 am–4:00 pm</td>
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<tr>
<td>Tuesday, April 21</td>
<td>9:15 am–4:00 pm</td>
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<td>Wednesday, April 22</td>
<td>9:15 am–1:00 pm</td>
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American Board of Radiology

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