The Connection Quad is the place to be during the ARRS Annual Meeting. It is the central gathering place to network with colleagues and leaders, socialize with friends, discover the latest products and services, eat lunch or grab a beverage, connect with the outside world, and check out the latest ARRS offerings.

3D Printing at ARRS

In recent years, 3D printing has grown substantially and has expanded into many areas of medicine, including medical imaging. Stop by the 3D Printing in Medicine Booth in the Connection Quad to learn more about this exciting new technology. There will be daily talks in the booth during each morning break.

Visit The Roentgen Fund Booth

Learn more about investing in the future of radiology and enter for a chance to win an Apple Home Pod at The Roentgen Fund Booth.

Connection Quad Hours

MONDAY–WEDNESDAY, APRIL 23–25
9:15 am–4:00 pm

THURSDAY, APRIL 26
9:15 am–1:00 pm

Lunch is on us!
Complimentary Lunches and Beverage Breaks

The Connection Quad will feature morning and afternoon beverage breaks, along with complimentary lunches, so that attendees can make the most of their time and network with industry leaders and professional experts.

Beverage Breaks
Monday–Thursday, starting at 9:30 am and 3:00 pm

Complimentary Lunches
Monday–Thursday, 12:15–1:15 pm

Play the Discover Roentgen Meeting Challenge!

Win a 3D Printer, Apple Watch, and more!

This augmented reality scavenger hunt combines historical facts with case-based challenges and exhibitor quests—all from your mobile device.

Special ARRS Booth Savings

- 15% off on all products
  Plus...
- 30% off RADIOLOGY M&M Online Course
- 30% off ONCOLOGIC IMAGING Online Course
- 50% off RADIOLOGY REVIEW Book Bundle

Enter for a chance to win
an Apple Home Pod at The Roentgen Fund® Booth
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>President’s Welcome</td>
<td>5</td>
</tr>
<tr>
<td>Opening Ceremonies</td>
<td>6–7</td>
</tr>
<tr>
<td>Everything You Need to Know About Credit</td>
<td>9</td>
</tr>
<tr>
<td>Luncheon Symposia Series</td>
<td>10–11</td>
</tr>
<tr>
<td>Categorical Course Schedule</td>
<td></td>
</tr>
<tr>
<td>Body MRI: How to Provide Value-Based Care</td>
<td>12–13</td>
</tr>
<tr>
<td>Categorical Course Schedule</td>
<td></td>
</tr>
<tr>
<td>Imaging in the ED: A Practical Update of Emergency Radiology</td>
<td>14–15</td>
</tr>
<tr>
<td>Radiology Review Track</td>
<td>16</td>
</tr>
<tr>
<td>Daily Schedule</td>
<td>17–23</td>
</tr>
<tr>
<td>General Meeting Information</td>
<td>24</td>
</tr>
<tr>
<td>Education and Credit Overview</td>
<td>25</td>
</tr>
<tr>
<td>Floor Plans and Exhibitor Map</td>
<td>26–27</td>
</tr>
<tr>
<td>Commercial Exhibitors</td>
<td>30–37</td>
</tr>
</tbody>
</table>
Welcome to the 2018 ARRS Annual Meeting!

On behalf of my colleagues on the ARRS Executive Council, we are pleased and honored you have chosen to participate in the ARRS 118th Annual Meeting in Washington, DC. This meeting offers an extraordinary learning experience. I’d like to recognize and thank an impressive group of volunteers and over 400 of the best and the brightest internationally recognized faculty who have worked hard to ensure you have numerous opportunities throughout the week to learn and advance your knowledge.

We welcome the Brazilian College of Radiology and Diagnostic Imaging as our 2018 global exchange partner. Through this partnership we are offering the Sunday afternoon featured course titled “Imaging Sports Injuries: Perspectives from Brazil and North America.” This program will be presented by experts from Brazil, Canada, and the United States.

Each year we put together a program that better meets the needs of our members. New this year, we are offering two categorical courses titled “Body MRI: How to Provide Value-Based Care” and “Imaging in the ED: A Practical Update of Emergency Radiology.” In addition, we’ve restructured the Radiology Review Course into a track that is open to everyone with no additional fee.

The Connection Quad is the place to be to connect with colleagues and friends during beverage breaks and the lunch hour. Make sure to visit the exhibitors in the Connection Quad to thank them for their participation and to learn more about their products and services. Stop by The Roentgen Fund® Booth to make a donation, and visit the ARRS Booth to see the latest Society offerings and ensure you are taking full advantage of your membership.

Spring is a great time to visit Washington, DC. I hope you’ll take advantage of the museums, eclectic dining options, and historic monuments, in addition to receiving a top-notch educational experience. We hope you enjoy the week. Thank you for participating in our meeting.

Sincerely,

Bernard F. King, Jr., MD
ARRS President
Opening Ceremonies

Sunday, April 22, 2018

5:45–7:15 PM
LOCATION: Salon 1, Marriott Ballroom, Lobby Level

Introduction of 2018 ARRS Honorary Member
Manoel de Souza Rocha, MD, PhD

Introduction of 2018 ARRS Distinguished Educator
James M. Provenzale, MD

Introduction of 2018 ARRS Scholar
Rupa Radhakrishnan, MBBS, MS

Introduction of 2018 ARRS/Berlin Scholar
Brandon P. Brown, MD, MA

Installation of 2018-2019 ARRS President
Philip Costello, MD
118th President

ANNUAL MEMBER BUSINESS MEETING

PRESIDENTIAL ADDRESS:
“Mitigating Physician Burnout – ARRS Provides Support”
Melissa L. Rosado de Christenson retired from active duty in the United States Air Force as a colonel in 2001 after more than 25 years of military service. She is a graduate of the charter class of the Uniformed Services University of the Health Sciences in Bethesda, Maryland, where she received her MD degree and was commissioned as an officer in the United States Air Force.

She completed her residency in diagnostic radiology at the George Washington University Medical Center in Washington, DC, and became a diplomat of the American Board of Radiology in 1984. Her first assignment as a radiologist was at the 13th Air Force Medical Center, Clark Air Base, Republic of Philippines, where she also served as consultant in radiology to the Pacific Air Forces Surgeon General. Rosado de Christenson was assigned to the Armed Forces Institute of Pathology (AFIP) in September of 1988 as chief of pulmonary and mediastinal radiology and became chairman and registrar of the Department of Radiologic Pathology in 1995. She was the first woman and the first U.S. Air Force officer ever to serve in this capacity since the establishment of the department in 1947.

She served in the faculty of the Department of Radiologic Pathology at the AFIP for more than 13 years and trained more than 20,000 radiologists, residents, and other physicians who attended AFIP courses. After serving as clinical professor of radiology at the Ohio State University in Columbus, Ohio, she joined the Department of Radiology of the Saint Luke’s Hospital of Kansas City in Kansas City, Missouri, where for the last decade she has served as section chief of thoracic imaging, and is professor of radiology at the University of Missouri-Kansas City.

Rosado de Christenson has published books and articles on the imaging features of various thoracic diseases, and is particularly interested in the pathologic basis of chest imaging abnormalities. She has been a featured speaker at national and international radiology meetings and a visiting professor at universities and medical schools throughout the United States and abroad.

She became a fellow of the American College of Radiology (ACR) in 1999 and an inaugural fellow of the American Association of Women Radiologists (AAWR) in 2017. She is past president of the American Roentgen Ray Society (ARRS), the Society of Thoracic Radiology (STR), the AAWR, and the Asociación de Radiología Torácica Latinoamericana (Latin American Chest Radiologic Society). For the last two decades she has continuously served the ARRS in various capacities including chair of instructional courses, secretary/treasurer.

“*For the last two decades she has continuously served the ARRS in various capacities including chair of instructional courses, secretary/treasurer.*”

Rosado de Christenson was the recipient of the AAWR’s 2004 Marie Sklodowska-Curie Award and the AAWR’s 2016 Alice Ettinger Award. She is married to Paul J. Christenson, MD, CAPT, MC, USN (RET), who is associate professor of urology at the University of Kansas.
CLAIM CREDIT

Claim your credit through the meeting portal!

Login using your LAST NAME and CUSTOMER ID located on the back of your Annual Meeting badge.

Claim credit by July 27—including on-demand credit!

www.arrs.org/MeetingPortal
Everything You Need to Know About Credit

How Do I Claim Credit for Sessions I’m Not Able to Attend In-Person?

On-Demand Credit is available for select sessions.

CME/SA-CME Credit

The following sessions offer up to 110.50 CME/SA-CME On-Demand Credit:

- All sessions indicated with ‘On-Demand Credit’ in the Daily Schedule
- Body MRI: How to Provide Value-Based Care Categorical Course
- Imaging in the ED: A Practical Update of Emergency Radiology Categorical Course
- Select Electronic Exhibits

Go to www.arrs.org/MeetingPortal and log in using your last name and customer ID located on the back of your Annual Meeting badge. View the recorded session and claim credit from Sunday, April 22, 2018 through Friday, July 27, 2018.

Self-Assessment (SAM)/CME Credit

All SAM courses offer On-Demand Credit. Go to www.arrs.org/MeetingPortal and log in using your last name and customer ID located on the back of your Annual Meeting badge. View the recorded session, answer the Self-Assessment questions in the On-Demand Credit site, and claim your SAM/CME credit through Friday, July 27, 2018. All SAM credit is earned in conjunction with CME credit.

CME Transcript

ARRS members may view and print their On-Demand Credits through the ‘My Education’ section of the ARRS website as the credits are claimed.

How Do I Claim Credit for Sessions I Attended In-Person?

CME Credit Only

Attend the session and then go to www.arrs.org/MeetingCredit. Log in using your last name and customer ID located on the back of your Annual Meeting badge to access course attendance logs and evaluations.

Self-Assessment (SAM)/CME Credit

SAM Credit is offered for select sessions indicated in the Daily Schedule. Attend the session and then go to www.arrs.org/MeetingPortal. Log in using your last name and customer ID located on the back of your Annual Meeting badge, select Live Sessions, answer the Self-Assessment questions, complete the course evaluation, and claim your SAM/CME credit. All SAM credit is earned in conjunction with CME credit. You must attend the full session to receive SAM credit.

Attendees can claim their credit onsite at the connection kiosks, from a laptop or mobile device, or online later until Friday, July 27, 2018.

CME Transcript

ARRS members may access their CME records through the ‘My Education’ section of the ARRS website after finalizing their credit selections.
Luncheon Symposia Series

12:15 – 1:15 PM
LOCATION: SALON 1, MARRIOTT BALLROOM, LOBBY LEVEL

Complimentary lunch provided by ARRS for up to 200

MONDAY, APRIL 23, 2018
An Update of the Risks and Benefits of Gadolinium-Based Contrast Agents
SPONSORED BY AN UNRESTRICTED EDUCATIONAL GRANT FROM BRACCO DIAGNOSTICS, INC.
FACULTY: Howard A. Rowley, MD
This lunch symposium will include an up-to-date review of the risks and benefits of gadolinium-based contrast agents.
CME credit available through Northwest Imaging Forums, Inc.

TUESDAY, APRIL 24, 2018
A Review of the Safety of Gadolinium-Based Contrast Agents in Pediatric Imaging
SPONSORED BY AN UNRESTRICTED EDUCATIONAL GRANT FROM GUERBET, LLC.
FACULTY: Shannon G. Farmakis, MD
Contrast-enhanced MRI has become an increasingly utilized imaging modality in the pediatric population. Familiarity with the safety profiles of the various gadolinium-based contrast agents (GBCAs) and approved indications is important in managing this group of patients. The unique pharmacologic and imaging characteristics of certain GBCAs may have a role in agent selection.
A number of recent studies in the adult and pediatric literature have described areas of high signal intensity in the globus pallidus and dentate nucleus in patients with a history of multiple prior exposures to GBCAs, and some studies have found gadolinium in tissue specimens of these areas. There is a growing concern about the implications of these findings of gadolinium deposition by various governing bodies, regulatory authorities, physicians, and patient groups.
While currently there is no direct evidence that links gadolinium deposition with specific symptoms or syndromes, further research into the safety of the various types of agents (linear versus macrocyclic) is warranted and is supported by the American College of Radiology. There are also implications for changes in practice, such as reporting cumulative gadolinium dosages in reports.
Up to 1 CME credit available through The Institute for Advanced Medical Education (IAME).
For more information regarding registering or claiming credit, contact CustomerService@AppliedRadiology.org, or visit www.appliedradiology.org/ARRS18.

Can’t make it to these Symposia?
View the on-demand session recordings through the Meeting Portal.
www.arrs.org/MeetingPortal
WEDNESDAY, APRIL 25, 2018

Enabling Precision Health with Artificial Intelligence: Technology, Data, Use Cases, and Opportunities

SPONSORED BY GE HEALTHCARE

FACULTY: Charles E. Kahn Jr., MD, MS; Eliot Siegel, MD; and Gopal Avinash, PhD

We are on the brink of an amazing transformation in how we approach healthcare. Precision health relies on radical advancements in advanced tools and technology, including artificial intelligence (AI). As AI technology and application adoption advances, new medical imaging use cases will emerge. Use cases drive innovative business models, value chains, and strategic decisions. This panel of leading experts and GE Healthcare’s AI technology leader share their perspective—from point of care to reading room—on what the most prominent and powerful medical imaging use cases are, what is possible in technology, and what some of the key upcoming changes, paradigm shifts, and their implications are as we head into this exciting new frontier.

This symposium does not offer CME.

THURSDAY, APRIL 26, 2018

Achieving Early and Accurate Diagnosis of Interstitial Lung Disease

SPONSORED BY AN UNRESTRICTED EDUCATIONAL GRANT FROM BOEHRINGER INGELHEIM PHARMACEUTICALS, INC.

FACULTY: David J. Lederer, MD, MS, and Jonathan G. Goldin, MD, PhD

Early recognition of disease symptoms and accurate diagnosis are critical to the optimal management of interstitial lung diseases (ILDs), particularly idiopathic pulmonary fibrosis (IPF), which is the most common ILD. High-resolution computed tomography (HRCT) is an essential component of the diagnostic pathway in IPF. Familiarity with the typical appearances of usual interstitial pneumonia (UIP) on HRCT is important, as it is often sufficient for establishing a confident diagnosis of IPF without the need for surgical biopsy. However, due to the heterogeneity of presentations of IPF, a radiological diagnosis of IPF using HRCT is not always straightforward, and the disease may have both typical and atypical appearances. In this regard, honeycombing—a common feature of IPF seen on HRCT—is crucial for an accurate diagnosis. Unfortunately, identification of honeycombing is often subjective, and there is some disagreement regarding its imaging features.

Experts will share tips and tricks for differentiating the radiologic pattern of UIP from other idiopathic interstitial pneumonias. Illustrative cases will detail best practices for accurate interpretation of HRCT imaging and will be paired with analysis of the latest evidence on monitoring of treatment response of key clinical concepts to practice.

Up to 1 CME credit available through PeerView.

For information regarding registering or claiming credit, contact PeerView at 1.877.853.6141 or live@PeerView.com, or visit www.peerview.com/ILD2018.

The Lunch Symposia listed above are not part of the ARRS CME program and ARRS has had no role in the development of the content. Any opinions or conclusions expressed are solely those of the presenters. Where noted, CME is made available by third party providers. Credit must be claimed through the accrediting organization and separately from your ARRS Annual Meeting or Virtual Meeting credit. Please contact the respective provider for more information.
Categorical Course

Body MRI: How to Provide Value-Based Care

Registration and a separate fee are required for this course.

LOCATION: Salon 2, Marriott Ballroom, Lobby Level

CO-DIRECTORS: Fergus V. Coakley, MD; Koenraad J. Mortelé, MD

Needs Assessment:

Subspecialty expertise in body MRI is increasingly important as the technology continues to evolve and as the applications become increasingly focused and challenging. Optimal technique and interpretation is key to providing reports that are clinically useful and beneficial to patients. Reports that are clinically focused and personalized to each individual patient in a way that enhances management will increasingly be expected and required as we shift toward value-based reimbursement in the emerging health care payment reforms.

Learning Outcomes:

After attending this course, the attendee will be able to:

- Perform and interpret body MRI at a high level across a range of applications
- Describe and implement LI-RADS for reporting of liver lesions in patients with cirrhosis
- Discuss updated concepts in prostate MRI, including PI-RADS and MRI targeted biopsy
- Discuss the indications for adding MRI to ultrasound in gynecologic disease
- Describe critical MRI findings in adult and pediatric patients with diseases of the liver, pancreas, biliary system, gastrointestinal tract, genitourinary, and musculoskeletal system

Credits:

ARRS designates this live 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.

On-Demand Credit:

ARRS designates this enduring 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.

Canadian MOC Section 3 Credit:

The AARRS 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.

Accreditation services do not imply endorsement of opinions presented during this activity.
# Categorical Course Schedule

## Body MRI: How to Provide Value-Based Care

### Sunday, April 22, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:30–9:30 AM</td>
<td>General</td>
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<tr>
<td></td>
<td>State of the Art Abdominal MRI: An Update</td>
<td>F. Coakley, MD</td>
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<td></td>
<td>Keeping Patients Safe in the MRI Environment</td>
<td>K. Olsen, MD</td>
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<td>Body MRI: Pitfalls and Artifacts</td>
<td>K. Fowler, MD</td>
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<td>Diffusion MRI: Should it Be Routine in the Abdomen and Pelvic?</td>
<td>H. Chandarana, MD</td>
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<tr>
<td>10:00 AM–12:00 PM</td>
<td>Hepatobiliary</td>
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<td></td>
<td>Quantitative MRI Biomarkers of Liver Fat, Iron, and Fibrosis</td>
<td>S. Reeder, MD, PhD</td>
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<td>Benign Hepatic Tumors: Imaging and Management</td>
<td>K. Mortelé, MD</td>
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<td>Imaging of Focal Disease in the Cirrhotic Liver (LI-RADS)</td>
<td>C. Sirlin, MD</td>
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<td>MRI of Biliary Disease: Technical Considerations and Differential Diagnosis</td>
<td>C. Moreno, MD</td>
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<td>1:00–5:00 PM</td>
<td>Pancreas</td>
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<td>Pancreatic Adenocarcinoma</td>
<td>K. Sandrasegaran, MD</td>
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<td>Pitfalls in Pancreatic Imaging</td>
<td>J. Pahade, MD</td>
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<td>MRI of Cystic Pancreatic Neoplasms</td>
<td>E. Siegelman, MD</td>
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<td>MRI of Pancreatitis</td>
<td>F. Miller, MD</td>
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<td>3:30–5:30 PM</td>
<td>Genitourinary</td>
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<td>MRI of Solid Renal Masses</td>
<td>L. Aganovic, MD</td>
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<td>MRI Evaluation of Adrenal Gland Abnormalities</td>
<td>A. Westphalen, MD, PhD</td>
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<td>MRI of Cystic Renal Masses</td>
<td>G. Israel, MD</td>
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<td>MR Urography</td>
<td>A. Sekhar, MD</td>
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### Monday, April 23, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:30–9:30 AM</td>
<td>Gastrointestinal</td>
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<td>MRI of Anal and Perianal Disease</td>
<td>E. Korngold, MD</td>
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<td></td>
<td>Rectal Cancer</td>
<td>M. Harisinghani, MD</td>
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<td>MR Enterography: Maximizing Value</td>
<td>J. Dillman, MD</td>
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<td>MR Defecography</td>
<td>B. Foster, MD</td>
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<tr>
<td>10:00 AM–12:00 PM</td>
<td>Obstetrics/Gynecology</td>
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<td>Management of Incidental Findings of the Adnexa on MRI</td>
<td>S. Ascher, MD</td>
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<td>MRI of Benign Uterine Disease</td>
<td>F. Fennessy, MD, PhD</td>
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<td>Uterine Malignancy: Incremental Role of MRI</td>
<td>K. Lee, MD</td>
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<td>MRI in Pregnancy</td>
<td>L. Poder, MD</td>
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<td>1:00–3:00 PM</td>
<td>Musculoskeletal</td>
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<td>MRI of Arthritis</td>
<td>L. Bancroft, MD</td>
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<td>MRI of the Knee</td>
<td>J. Canino, MD, MPH</td>
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<td>MRI of Shoulder Disorders</td>
<td>C. McMahon, MD</td>
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<td>Hip MRI</td>
<td>M. Bredella, MD</td>
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<tr>
<td>3:30–5:30 PM</td>
<td>Hot Topics/General</td>
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<td></td>
<td>Prostate MRI: PI-RADS in Practice</td>
<td>R. Gupta, MD</td>
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<td>Gadolinium Toxicity: Where Do We Stand in 2018?</td>
<td>D. Bluemke, MD, PhD</td>
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<td>Current Clinical Applications of Combined PET/MRI</td>
<td>S. Behr, MD</td>
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<td>MRI Quality Assurance: Lessons Learned</td>
<td>J. Pollock, MD</td>
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</tbody>
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### Tuesday, April 24, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:30–9:30 AM</td>
<td>Cardiac</td>
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<tr>
<td></td>
<td>MRI of Ischemic Heart Disease</td>
<td>C. Fuss, MD</td>
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<tr>
<td></td>
<td>Nonischemic Cardiac Disease</td>
<td>G. Kicska, MD</td>
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<tr>
<td></td>
<td>MRI of Myocarditis and Pericarditis</td>
<td>K. Ordovas, MD</td>
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<tr>
<td></td>
<td>MR Angiography of the Large and Medium Vessels</td>
<td>J. Carr, MD</td>
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<tr>
<td>10:00 AM–12:00 PM</td>
<td>Pediatric</td>
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<td></td>
<td>Practical MRI of the Pediatric Chest: Lungs, Airways, and Mediastinum</td>
<td>E. Lee, MD, MPH</td>
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<td>Pediatric Abdominopelvic Congenital Masses: MRI Techniques and Findings</td>
<td>G. Schooler, MD</td>
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<td></td>
<td>Pediatric Oncology MRI: Current Diagnostic Strategies</td>
<td>R. Ayyala, MD</td>
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<tr>
<td></td>
<td>Up to Date: Pediatric MRI of Musculoskeletal Disorders</td>
<td>V. Ho-Fung, MD</td>
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</table>

"By attending the categorical course, you can take that information and apply it to practice tomorrow."

—Sanjeev Bhalla, MD, Mallinckrodt Institute of Radiology
Registration and a separate fee are required for this course.

LOCATION: Salon 2, Marriott Ballroom, Lobby Level

CO-DIRECTORS:
Robert Novelline, MD; Douglas Katz, MD; Sanjeev Bhalla, MD

Needs Assessment:
Emergency Radiology continues to be one of the fastest growing radiology subspecialties in response to the increasing demand for 24/7 emergency radiology coverage. As emergency department volume continues to increase annually, so does the demand for the most efficient and highest quality imaging care of emergency patients.

Learning Outcomes:
After attending this course, the attendee will be able to:

■ Review the current status of emergency imaging in a broad spectrum of topics
■ Evaluate current protocols for imaging the body in emergency situations with multiple imaging modalities
■ Identify typical and atypical emergency presentations of multiple disorders
■ Recognize potential pitfalls in the performance and interpretation of emergency imaging

NOT REGISTERED FOR THIS COURSE?
It’s not too late to add it to your registration, or save 15% on the stand-alone book at the ARRS Booth.

Credits:
ARRS designates this live 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.

On-Demand Credit:
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Canadian MOC Section 3 Credit:
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.

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### Categorical Course Schedule

**Imaging in the ED: A Practical Update of Emergency Radiology**

#### WEDNESDAY, APRIL 25, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>7:30–9:30 AM</td>
<td>CENTRAL NERVOUS SYSTEM EMERGENCIES</td>
<td>T. Ptak, MD, PhD</td>
</tr>
<tr>
<td>10:00 AM–12:00 PM</td>
<td>FACE AND NECK EMERGENCIES</td>
<td>M. Bernstein, MD</td>
</tr>
<tr>
<td>1:00–3:00 PM</td>
<td>SPINE EMERGENCIES</td>
<td>O. Ortiz, MD, MBA</td>
</tr>
<tr>
<td>3:30–5:30 PM</td>
<td>THORACIC EMERGENCIES</td>
<td>J. Wortman, MD</td>
</tr>
</tbody>
</table>

#### THURSDAY, APRIL 26, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30–9:30 AM</td>
<td>ABDOMINAL EMERGENCIES</td>
<td>M. Patlas, MD</td>
</tr>
<tr>
<td>10:00 AM–12:00 PM</td>
<td>PELVIC AND GENITOURINARY EMERGENCIES</td>
<td>C. LeBedis, MD</td>
</tr>
<tr>
<td>1:00–3:00 PM</td>
<td>VASCULAR EMERGENCES</td>
<td>U. Bodanapally, MD</td>
</tr>
<tr>
<td>3:30–5:30 PM</td>
<td>UPPER EXTREMITY EMERGENCIES</td>
<td>A. Sheikh, MD</td>
</tr>
</tbody>
</table>

#### FRIDAY, APRIL 27, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00–10:00 AM</td>
<td>LOWER EXTREMITY EMERGENCIES</td>
<td>S. Smith, MD</td>
</tr>
<tr>
<td>10:30 AM–12:30 PM</td>
<td>PEDIATRIC EMERGENCIES</td>
<td>K. Shekdar, MD</td>
</tr>
</tbody>
</table>

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“Every year I look forward to the categorical courses. I think they are the most exciting part of the meeting.”

—Ruth Carlos, MD, University of Michigan
NEW Radiology Review Track

This new educational track offers a broad review of cases across 11 subspecialties. Each session addresses one subspecialty and contains 60 minutes of case review and 30 minutes of didactic lecture. The rapid-fire case review will provide an even more comprehensive review of cases with limited differential diagnoses.

LOCATION: Salon 1, Marriott Ballroom, Lobby Level

TUESDAY, APRIL 24

1:30–3:00 PM
Radiology Review: Neuroradiology
B. Soares, K. Fink, A. Bhatt, T. Kennedy

3:30–5:00 PM
Radiology Review: Nuclear Medicine
C. Wright, J. McConathy, P. Kuo, P. Bhamhvani

WEDNESDAY, APRIL 25

8:30–10:00 AM
Radiology Review: Genitourinary Imaging
M. Manning, M. Heller, A. Kielar, D. Marin

10:30 AM–12:00 PM
Radiology Review: Gastrointestinal Imaging
V. Mellnick, R. O'Malley, E. Stein, C. Santillan

1:30–3:00 PM
Radiology Review: Chest Imaging

3:30–5:00 PM
Radiology Review: Pediatric Imaging
A. Chaturvedi, D. Saul, U. Udayasankar, J. Reid, L. Fenton

THURSDAY, APRIL 26

8:30–10:00 AM
Radiology Review: Ultrasound
C. Deurdulian, A. Kennedy, G. Joshi, A. Kamaya

10:30 AM–12:00 PM
Radiology Review: Musculoskeletal Imaging
A. Huang, J. Baker, F. Beaman, H. Garner

1:30–3:00 PM
Radiology Review: Cardiac Imaging
K. Hanneman, T. Henry, S. Agarwal, J. Nance

FRIDAY, APRIL 27

8:30–10:00 AM
Radiology Review: Breast Imaging
P. Huynh, S. Destounis, B. Adrada, L. Margolies

10:30 AM–12:00 PM
Radiology Review: Vascular and/or Interventional
R. Ramaswamy, R. Liddell, E. Ignacio, D. Abdollahian

Chair: Cynthia Santillan, MD
**SUNDAY, APRIL 22, 2018**

**7:30–9:30 AM**

**PED.** Rock the Review: How to Get a Perfect Manuscript Score  
T. Berquist, J. Provenzale  
Location: Virginia, Lobby Level  
Tracks: ED, OT  
2 CME Credits  
RESIDENT

**PS18.** How Radiologists Get Paid: Today and Tomorrow  
G. Nicola, L. Golding, J. Hirsch, R. Duszak  
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level  
Tracks: HP, CT, OT  
2 CME Credits, 2 SAM Credits  
SAM

**9:30–10:00 AM**

Beverage Break—States Corridor, Lobby Level, and Thurgood Marshall Foyer, Mezzanine Level

**10:00 AM–12:00 PM**

**AI.** Artificial Intelligence in Radiology: Present and Future  
C. Kahn, P. Lakhanl, B. Allen, S. Jha  
Location: Delaware, Lobby Level  
Tracks: ED  
2 CME Credits

**CR2.** Contrast Reactions: Now What Do I Do? Part 2  
(March 2017 not a prerequisite)  
M. Parker, G. Salazar, J. Pahade, K. Beckett, M. Sakala  
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level  
Tracks: PS, ED, CT, OT  
2 CME Credits, 2 SAM Credits  
SAM

**SMD.** Beyond the Screening Mammography Debate  
M. Javitt, M. Karma, R. Smith, J. Keen, D. Kopans, S. Destounis, E. Mendelson, R. Brem  
Location: Virginia, Lobby Level  
Tracks: BR, US, BI  
2 CME Credits  
RESIDENT

**12:00–1:00 PM**

Lunch on Your Own

**1:00–3:00 PM**

**BZ01.** Imaging Sports Injuries: Perspectives From Brazil and North America: Part 1  
M. Rocha, D. Blankenhaker, L. Bancroft, K. Buckwalter, M. Bordalo-Rodrigues  
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level  
Tracks: MK, US  
2 CME Credits

**RS1.** Resident Symposium Part 1  
E. Paulson, A. Norbash, D. Wolfman, N. Tan  
Location: Delaware, Lobby Level  
Tracks: OT, HP, SO  
2 CME Credits  
RESIDENT

**3:00–3:30 PM**

Beverage Break—States Corridor, Lobby Level, and Thurgood Marshall Foyer, Mezzanine Level

**3:30–4:30 PM**

**RS2.** Resident Symposium Part 2  
A. O’Connell, T. Kennedy, J. Christensen, T. Hanna  
Location: Delaware, Lobby Level  
Tracks: OT, HP, SO  
1 CME Credit  
RESIDENT

**4:30–5:00 PM**

**BZ02.** Imaging Sports Injuries: Perspectives From Brazil and North America: Part 2  
M. Bordalo-Rodrigues, M. Abreu, D. Salonen  
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level  
Tracks: MK, US  
1.5 CME Credits

**5:45–7:15 PM**

Opening Ceremonies and Member Business Meeting  
Location: Salon 1, Marriott Ballroom, Lobby Level

**MONDAY, APRIL 23, 2018**

**7:00–8:00 AM**

**PH01.** Power Hour: Musculoskeletal Imaging  
D. Mintz  
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level  
Tracks: MK  
1 CME Credit

**PH02.** Power Hour: Pediatric Imaging  
D. Gilbertson-Dahdal  
Location: Delaware, Lobby Level  
Tracks: PD  
1 CME Credit

**8:30–10:00 AM**

**IC101.** Trauma Imaging, Part 1  
M. Bernstein, S. Nicolaou, J. Gross, S. Anderson  
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level  
Tracks: GN, ER, CT, GU  
1.5 CME Credits, 1.5 SAM Credits  
SAM  
RESIDENT  
ON-DEMAND CREDIT

**IC102.** Breast Ultrasound: From Screening to Biopsy  
W. Berg, J. Rapelyea, D. Gupta  
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level  
Tracks: BR, US, BI  
1.5 CME Credits  
RESIDENT

**IC103.** Pitfalls in MSK Radiology  
D. Blankenhaker, K. Buckwalter, L. Ladd, C. Chung  
Location: Virginia, Lobby Level  
Tracks: MK, ER, MR  
1.5 CME Credits  
RESIDENT

**SESSION TYPES**

IC  Instructional Course  
SS  Scientific Session  
PH  Power Hour  
RC  Radiology Review Course
DAILY SCHEDULE

IC104. Basic Patterns of HRCT
J. Chung, K. Cummings, D. Green, D. Naeger
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: CH, CT
1.5 CME Credits
RESIDENT

SS01. Genitourinary–Female Pelvis/Endocrine
Keynotes: Thyroid–New Directions–S. Sheth
Decision-Making in the Setting of Low Risk Imaging Findings–P. Pandharipande
Location: Maryland, Lobby Level
Tracks: GU
1.5 CME Credits

SS02. How to Succeed in Research
M. Davenport, P. Pickhardt
Location: Delaware, Lobby Level
Tracks: ED, OT
1.5 CME Credits

9:30–10:30 AM
Beverage Break–Connection Quad
11:00 AM–12:00 PM
ON-DEMAND CREDIT
SAM
RESIDENT

IC105. Controversies in Abdominal Imaging
M. Davenport, P. Pickhardt
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GI, HP, GU, CT
1.5 CME Credits, 1.5 SAM Credits
SAM

IC106. 80 Nuts to Crack in 80 Minutes–Cardiothoracic
S. Kligerman, S. Saboo
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: CA, CH, CT, MR
1.5 CME Credits, 1.5 SAM Credits
SAM

IC107. Vascular Issues in the Brain
J. Leach, A. Yagat, M. Mossa-Basha
Location: Virginia, Lobby Level
Tracks: NR, MR
1.5 CME Credits

IC108. Orthopaedic Hardware: Understanding the Imaging
K. Davis, S. Smith, T. Miller
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: MK, MR, CT
1.5 CME Credits, 1.5 SAM Credits
SAM

IC109. Malpractice Involving Radiology, 2018 Update
L. Berlin
Location: Virginia, Lobby Level
Tracks: HP, SO
1.5 CME Credits

10:30 AM–12:00 PM
ON-DEMAND CREDIT
SAM

IC110. Trauma Imaging, Part 2
F. Berger, S. Bhalla, K. Archer-Arroyo, S. Chong
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GN, GI, HH, MR
1.5 CME Credits

IC111. Highlighting Anatomic Imaging with Radioactivity
P. Kuo, E. Akin, T. Wong, A. Sheikh
Location: Maryland, Lobby Level
Tracks: NM, GI, HH, MR
1.5 CME Credits

IC112. Musculoskeletal Ultrasound
J. Jacobson, S. Allison, T. Morgan
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: US, MK
1.5 CME Credits

IC113. Benign Prostatic Hypertrophy
D. Margolis, T. McClure, S. Young
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: VI, GU
1.5 CME Credits, 1.5 SAM Credits
SAM

12:15–1:15 PM
Lunch–Connection Quad
Lunch Symposium–see page 10
1:30–3:00 PM
ON-DEMAND CREDIT
SAM

SS03. Genitourinary–Prostate
Keynotes: Zone-Based Approach to Prostate MRI–A. Oto
Post Treatment Imaging Follow-Up for Local Recurrence of Prostate Carcinoma–R. Paspulati
Location: Maryland, Lobby Level
Tracks: GU
1.5 CME Credits

SS04. Breast–Tomosynthesis
Keynotes: Current Status of DBT in Clinical Practice–S. Destounis
Clinical Practice: 10 Tips for Efficient DBT Integration–M. Durand
Location: Delaware, Lobby Level
Tracks: BR
1.5 CME Credits

3:00–3:30 PM
Beverage Break–Connection Quad
3:30–5:00 PM
ON-DEMAND CREDIT
SAM

IC114. How to Stop Burning Out and Start Burning Brightly
R. Gunderman
Location: Virginia, Lobby Level
Tracks: SO, ED, PS
1.5 CME Credits

IC115. RadPath Concordance and Breast Cancer Biology
N. Constantinou, H. Gilmore, E. McDonald
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: BR, BI, MO, US
1.5 CME Credits, 1.5 SAM Credits
SAM
RESIDENT
ON-DEMAND CREDIT

IC116. Idiopathic Interstitial Pneumonias
S. Desai, B. Ellicker, S. Hobbs, A. Brody
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: CH, CT, PD
1.5 CME Credits

IC117. Prostate Cancer
D. Margolis, A. Rosenkrantz, A. Westphalen
Location: Maryland, Lobby Level
Tracks: GU, MR, RO, GI
1.5 CME Credits, 1.5 SAM Credits
SAM
RESIDENT
ON-DEMAND CREDIT

IC118. CSF Issues: Diagnosis and Treatment
A. Aiken, L. Shah, P. Kranz
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: NR
1.5 CME Credits

SS05. Musculoskeletal–Hip and Muscle
Keynotes: Advanced MR Imaging Techniques in MSK: How to Increase Speed–S. Lee
MRI of Sports Hernias–Y. Endo
Location: Delaware, Lobby Level
Tracks: MK
1.5 CME Credits

SS06. Musculoskeletal–Tumor Imaging
Keynotes: Bone Imaging: Utility of Narrow-Specific MRI Sequences–L. Fayad
Fundamentals of Tumor Imaging–M. Kransdorf
Location: Delaware, Lobby Level
Tracks: MK
1.5 CME Credits

SESSION TYPES
IC Instructional Course
SS Scientific Session
PH Power Hour
RC Radiology Review Course
SRS. SRS Program: Nuclear Medicine—21st Century Imaging
J. Thrall
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
No Credits Offered

TUESDAY, APRIL 24, 2018

7:00–8:00 AM
PH03. Power Hour: Gastrointestinal Imaging
A. Westphalen
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GI
1.5 CME Credits

PH04. Power Hour: Nuclear Medicine
K. Zukotynski
Location: Delaware, Lobby Level
Tracks: NM
1 CME Credit

8:30–10:00 AM
IC201. Upper Extremity Imaging: Shoulder to Elbow
L. Bancroft, C. French, C. Petchprapa
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: CT, GI, GU, OT
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT ON-DEMAND CREDIT

IC202. Revisiting the Early Days of Body CT
J. Haaga, R. Stanley, P. Sheedy
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: CT, GI, GU
1.5 CME Credits

IC203. PET/CT in the Evaluation of GI/GU Malignancy
R. Zeman, E. Rohren, D. Yoo, M. Osman
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: NM, PT, GU, GI
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT ON-DEMAND CREDIT

9:30–10:30 AM
Beverage Break—Connection Quad

10:30 AM–12:00 PM
IC204. Pediatric Emergency Radiology
A. Kovankilaya, E. Lee, R. Iyer, D. Bikó
Location: Virginia, Lobby Level
Tracks: PD, ER
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT ON-DEMAND CREDIT

IC205. MR Diagnosis in the Post-Surgical Joint
L. Beltran, M. Jesse, D. Rubin
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: MK, MR
1.5 CME Credits
RESIDENT

IC206. Imaging of the Airways
C. Javidan-Nejad, B. Little, S. Rossi
Location: Virginia, Lobby Level
Tracks: CH, CT
1.5 CME Credits

IC207. Neuro Oncologic Imaging
M. Gaskill-Shipley, Y. Anzai, W. Gibbs
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: NR, HH
1.5 CME Credits, 1.5 SAM Credits
SAM ON-DEMAND CREDIT

12:15–1:15 PM
Lunch—Connection Quad
Lunch Symposium—see page 10

1:30–3:00 PM
IC208. Tomosynthesis: How it is Changing Our Practice
M. Raghu, M. Durand
Location: Maryland, Lobby Level
Tracks: BR, MO, BI
1.5 CME Credits

IC209. Standards for Reporting and Quantification
S. Abbara, J. Kirsch, K. Ordonez, K. Hanneman
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: CA, CT, MR, CH
1.5 CME Credits

SS07. General/Emergency Radiology
Keynotes: Dual Energy CT: Fundamentals and Added Value in the ER Setting—J. Wortman
Dual Energy CT in the Trauma Setting: Pearls, Pitfalls, and Potential—K. Archer-Arroyo
Location: Maryland, Lobby Level
Tracks: GN, ER
1.5 CME Credits

SS08. Neuroradiology—Head and Neck
Keynotes: Basic Genetics of Adult CNS Tumors: Do I Really Need To Know This Stuff?—M. Gaskill-Shipley
Sinonasal Malignancies: Fast Facts for Radiologists—C. Glastonbury
Location: Delaware, Lobby Level
Tracks: NR
1.5 CME Credits

SS09. Gastrointestinal—Diffuse Hepatobiliary
Keynote: MR Imaging of Diffuse Liver Disease—K. Jhaveri
CT Imaging of Liver Fibrosis—P. Pickhardt
Location: Delaware, Lobby Level
Tracks: GI
1.5 CME Credits

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IC213. The Roentgen Fund® Honorary Lecture
Incidentalomas in Genitourinary Imaging
S. Silverman, K. Elsayes, S. Lee
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GU, GI
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT
The Roentgen Fund® Honorary Lecture is made possible by generous donations from Bernard F. King, Jr, MD, and Philip Costello, MD, in honor of Bruce McCleman, MD.

RC01. Radiology Review: Neuroradiology
B. Soares, K. Fink, A. Bhatt, T. Kennedy
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: NR
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

SS10. Gastrointestinal–Focal Hepatobiliary Disease
Keynotes: Update on Focal Liver Therapy – M. Lubner
Improved Liver Lesion Detection at MRI – R. Gupta
Location: Delaware, Lobby Level
Tracks: GI
1.5 CME Credits

3:00–3:30 PM
Beverage Break – Connection Quad

3:30–5:00 PM

IC214. Lung Neoplasms
M. Truong, J. Ko, R. Madan, S. Pipavath
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GI, CT, RF, PT
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

IC215. Imaging of the Liver
M. Bashir, S. Reeder, C. Sirlin
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GI, MR
1.5 CME Credits

IC216. Bone Tumors
M. Murphy, M. Kransdorf, L. Fayad
Location: Maryland, Lobby Level
Tracks: MK, MR, CT
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

IC217. Interventional Education and Training: The Essentials
S. Sabri, P. Patel, R. Winokur
Location: Virginia, Lobby Level
Tracks: VL, ED
1.5 CME Credits
SAM RESIDENT
ON-DEMAND CREDIT

RC02. Radiology Review: Nuclear Medicine
J. McConathy, C. Wright, P. Kuo, P. Bhambhvani
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: NM
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

SS11. Pediatric Imaging
Keynotes: A 10-Minute Guide to Intracranial Pressure Disorders in Children – B. Soares
Ultrasound-Guided Joint Injections in Children – A. Ngo
Location: Delaware, Lobby Level
Tracks: PD
1.5 CME Credits

9:30–10:30 AM
Beverage Break – Connection Quad

10:30 AM–12:00 PM

IC301. Lower Extremity Sports Injuries: Beyond the Joints
D. Fessel, N. Nacey, M. Anderson
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: BR, MR
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

IC302. Result Notifications and Contrast Media
R. Graves, M. Zagurovska, M. Mathur
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: ED, GI, PS
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

IC303. ABR Update 2018: MOC
B. Wagner, L. Kachnic, V. Jackson
Location: Virginia, Lobby Level
Tracks: OT
1.5 CME Credits

RC03. Radiology Review: Genitourinary Imaging
M. Manning, M. Heller, A. Kielar, D. Marin
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: GU
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

SS12. Efficacy/Administration/Informatics – Education
Keynotes: The Role of Education for the Journey to Value – M. Willis
Teaching Radiology: Connecting Learning Moments to Perceptions of the Field – C. Grieco
Location: Maryland, Lobby Level
Tracks: ED
1.5 CME Credits

SS13. Gastrointestinal–Bowel
Keynotes: State of the Art Crohn Imaging – C. Santillan
CT Colonography: The Next Era – J. Yee
Location: Delaware, Lobby Level
Tracks: GI
1.5 CME Credits
IC306. Conditions Affecting the Pulmonary Arteries
J. Vlahos, A. Huepe, C. Dennie, J. Bueno
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GI, CT
1.5 CME Credits, 1.5 SAM Credits

RC04. Radiology Review: Gastrointestinal Imaging
V. Melnick, R. O’Malley, E. Stein, C. Santillan
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: GI
1.5 CME Credits, 1.5 SAM Credits

SS14. Musculoskeletal–Knee and Foot
Keynotes: What’s New in 2D and 3D MRI of the Knee? – J. Fritz
Current Concepts in Plantar Plate Imaging – H. Umans
Location: Maryland, Lobby Level
Tracks: MK
1.5 CME Credits

SS15. Vascular/Interventional–Vascular and Dialysis Interventions
Keynotes: Image-Guided Cryoablation Techniques for the Treatment of Benign and Malignant Breast Tumors – K. Tomkovich
Low Flow Vascular Malformation: An Update of Imaging and Sclerotherapy – K. Kim
Location: Delaware, Lobby Level
Tracks: VI
1.5 CME Credits

12:15–1:15 PM
Lunch – Connection Quad
Lunch Symposium – see page 11

1:30–3:00 PM
IC307. Ultrasound Case by Case: A Rapid Fire Session
S. Rodgers, K. Robinson, V. Dogra
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: US, OB, GU
1.5 CME Credits, 1.5 SAM Credits

IC308. Head and Neck Potpourri
A. Srinivasan, C. Glatstonbury, R. Khan
Location: Virginia, Lobby Level
Tracks: HN, NR
1.5 CME Credits

IC309. Topics in Gynecologic Imaging
A. Shaaban, C. Menias, A. Venkatesan
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GU
1.5 CME Credits

IC310. Hot Topics in Cardiac Imaging
P. Rajah, U. Schoepf, B. Ghoshhajra, C. Francois
Location: Delaware, Lobby Level
Tracks: CA, VI, CT, MR
1.5 CME Credits

RC05. Radiology Review: Chest Imaging
C. Lee, A. Walker, A. El-Sherief, D. Naeger
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: CH
1.5 CME Credits

SS16. Breast—MRI
Keynotes: Radiomics and Personalized Medicine—C. Kuzmiak
Current Status of Abbreviated MRI—J. Leung
Location: Maryland, Lobby Level
Tracks: BR
1.5 CME Credits

3:00–3:30 PM
Beverage Break – Connection Quad
3:30–5:00 PM
IC311. Breast Imaging: Pitfalls and Artifacts
H. Marshall, J. Leung, S. Maimone
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: BR, MO, MR, US
1.5 CME Credits, 1.5 SAM Credits

THURSDAY, APRIL 26, 2018

PH07. Power Hour: Neuroradiology
C. Poon
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: NR
1 CME Credit

PH08. Power Hour: Genitourinary Imaging
E. Sadowski
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GU
1 CME Credit

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<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Location</th>
<th>Tracks</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30–10:00 AM</td>
<td><strong>IC01. Imaging of the Knee, Ankle, and Foot</strong></td>
<td>Southwest Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
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<tr>
<td></td>
<td><strong>IC02. Management of Portal Hypertension: 2018 Update</strong></td>
<td>Delaware, Lobby Level</td>
<td>KV, MR</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>IC03. Patient Centered Radiology and Procedural Competency</strong></td>
<td>Southwest Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>RC01. Radionuclide Examination</strong></td>
<td>Delaware, Lobby Level</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>SS18. Cardiac Imaging: MRI</strong></td>
<td>Maryland, Lobby Level</td>
<td>CA</td>
<td>1.5 CME Credits</td>
</tr>
<tr>
<td></td>
<td><strong>SS19. Chest Imaging–Lung Cancer Screening Challenge</strong></td>
<td>Delaware, Lobby Level</td>
<td>CA</td>
<td>1.5 CME Credits</td>
</tr>
<tr>
<td></td>
<td><strong>SS20. Genitourinary–Renal and Adrenal</strong></td>
<td>Maryland, Lobby Level</td>
<td>CA</td>
<td>1.5 CME Credits</td>
</tr>
<tr>
<td></td>
<td><strong>SS21. Breast–Screening and Intervention</strong></td>
<td>Maryland, Lobby Level</td>
<td>CA</td>
<td>1.5 CME Credits</td>
</tr>
<tr>
<td>9:30–10:30 AM</td>
<td><strong>Beverage Break</strong></td>
<td>Connection Quad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30 AM–12:00 PM</td>
<td><strong>IC04. Non-Traumatic Head and Neck Emergency</strong></td>
<td>Southwest Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>IC05. Pitfalls in Abdominal Imaging</strong></td>
<td>Southwest Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>IC06. Pediatric Radiology from Neck to Bottom to Back</strong></td>
<td>Southwest Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>RC02. Radiology Review: Ultrasound</strong></td>
<td>Delaware, Lobby Level</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>SS22. Musculoskeletal–Upper Extremity</strong></td>
<td>Delaware, Lobby Level</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits</td>
</tr>
<tr>
<td></td>
<td><strong>SS23. Musculoskeletal–Upper Extremity</strong></td>
<td>Delaware, Lobby Level</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits</td>
</tr>
<tr>
<td>12:15–1:15 PM</td>
<td><strong>Lunch–Connection Quad</strong></td>
<td>Connection Quad</td>
<td></td>
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</tr>
<tr>
<td>1:30–3:00 PM</td>
<td><strong>IC07. Nuclear Medicine Emergencies</strong></td>
<td>Delaware, Lobby Level</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>IC08. Small Bowel Imaging</strong></td>
<td>Delaware, Lobby Level</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
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<tr>
<td></td>
<td><strong>IC09. Tips and Tricks of Vascular Ultrasound</strong></td>
<td>Northeast Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>RC09. Radiology Review: Cardiac Imaging</strong></td>
<td>Northeast Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
<tr>
<td></td>
<td><strong>SS24. Neuroradiology–Brain</strong></td>
<td>Northeast Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits</td>
</tr>
<tr>
<td>3:00–3:30 PM</td>
<td><strong>Beverage Break–States Corridor, Lobby Level and Thurgood Marshall Foyer</strong></td>
<td>States Corridor, Lobby Level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:30–5:00 PM</td>
<td><strong>IC10. Signs in Chest Radiology</strong></td>
<td>Northeast Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
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<tr>
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<td><strong>IC11. Pediatric Neuroradiology</strong></td>
<td>Northeast Thurgood Marshall</td>
<td>GI, GU, GN</td>
<td>1.5 CME Credits, 1.5 SAM Credits</td>
</tr>
</tbody>
</table>
IC412. Changes in Breast Imaging: MQSA and ACOs
B. Joe, J. Hayward, J. Parikh
Location: Virginia, Lobby Level
Tracks: BR, MO, PS
1.5 CME Credits

IC413. Hepatobiliary Imaging
S. Hussain, D. Ganeshan, K. Elsayes
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: GI, MR, CT
1.5 CME Credits, 1.5 SAM Credits
SAM ON-DEMAND CREDIT

SS24. Efficacy/Administration/Informatics–Efficacy and Administration
Keynotes: MRI Screening in Patients with Biomedical Implants and Devices: Safety Guidelines and Recommendations – V. Lengie de Rosan
How Machine Learning Will Change Us: From Administration to Clinical Practice – R. Wiggins
Location: Maryland, Lobby Level
Tracks: ED
1.5 CME Credits

SS25. Vascular/Interventional–Interventional Oncology and Portal Venous Interventions
Keynotes: Interventional Radiology-Operated Endoscopy – J. Chick
Emerging Concepts in Interventional Oncology – T. Van Ha
Location: Delaware, Lobby Level
Tracks: VI
1.5 CME Credits

FRIDAY, APRIL 27, 2018
7:00–8:00 AM

PH09. Power Hour: Cardiac Imaging
J. Yalowitz
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: CA
1 CME Credit

PH10. Power Hour: Ultrasound
T. Moseley
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: US
1 CME Credit

8:30–10:00 AM

IC501. Pediatric Neuroradiology Must-Knows
S. Pruthi, M. Zapadka, M. Shroff
Location: Virginia, Lobby Level
Tracks: NR, HN, PD
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

IC502. Complex/Challenging Cases in Interventional Oncology
D. Madoff, S. Ganguli, M. Schiffman
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: VI
1.5 CME Credits

IC503. Colorectal Imaging
M. Lubner, I. Petkovska, D. Kim
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GI, GU
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
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RC10. Radiology Review: Breast Imaging
P. Huynh, S. Destounis, B. Adrada, L. Margolies
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: BR
1.5 CME Credits

SS26. Nuclear Medicine
Keynote: Prostate Molecular Update 2018: Fluociclovine, PSMA, and Theranostics – J. Kempf
Location: Maryland, Lobby Level
Tracks: NM
1.5 CME Credits

SS27. Efficacy/Administration/Informatics–Quality and Safety
Keynotes: Beyond CAD–Role of Artificial Intelligence in Quality and Safety – H. Ojeda-Fournier
From Data to Outcomes: Information Tools for Your Quality and Safety Agenda – N. Safdar
Location: Delaware, Lobby Level
Tracks: ED
1.5 CME Credits

10:00–10:30 AM
Beverage Break–States Corridor, Lobby Level, and Thurgood Marshall Foyer, Mezzanine Level

10:30 AM–12:00 PM

IC504. Imaging of the Pancreas
K. Sandrasegaran, E. Paulson, E. Tamm
Location: Southwest Thurgood Marshall Ballroom, Mezzanine Level
Tracks: GI, GU
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

IC505. Cardiac Imaging in Specific Clinical Settings
J. Hsu, A. Shah, K. Cummings, S. Patel
Location: Northeast Thurgood Marshall Ballroom, Mezzanine Level
Tracks: VA, VI, CT, CH
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

IC506. Peripheral Nerves: Imaging and Interventions
S. Gytopoulos, J. Carrino, R. Adler
Location: Virginia, Lobby Level
Tracks: MK, MR, NR
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

RC11. Radiology Review: Vascular and/or Interventional
R. Ramaswamy, R. Liddeell, E. Ignacio, D. Abdollahian
Location: Salon 1, Marriott Ballroom, Lobby Level
Tracks: VI
1.5 CME Credits, 1.5 SAM Credits
SAM RESIDENT
ON-DEMAND CREDIT

SS28. Chest Imaging–Lung Topics
Keynotes: PE Protocol in the ED: Pearls and Pitfalls – S. Bhalla
Update on the Imaging of Pulmonary Embolism – B. Carter
Location: Maryland, Lobby Level
Tracks: CH
1.5 CME Credits

SS29. Gastrointestinal–Clinical Advances
Keynotes: Contrast Enhanced Ultrasound: Where Are We Now? – S. Weinstein
Implementing Dual-Energy CT into Routine Clinical Practice: Economic Considerations – B. Patel
Location: Delaware, Lobby Level
Tracks: GI
1.5 CME Credits

www.arrs.org/meeting | ARRS 2018 ANNUAL MEETING 23
General Meeting Information

ANNUAL MEETING BADGE
Registrants must wear their ARRS 2018 Annual Meeting badge at all times. Access to courses, the Connection Quad, and the Reading Room without a badge is prohibited.

ARRS WELCOME AND INFORMATION CENTER
Registration, Education Information, and Technical Support 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 schedule, check in as a moderator, and ask questions about the Meeting App or claiming credits. We are here to help!

LOCATION AND HOURS
Convention Registration, Lobby Level

Saturday, April 21
1:00 – 5:00 PM

Sunday, April 22
6:30 AM – 6:00 PM

Monday, April 23 – Thursday, April 26
6:30 AM – 4:00 PM

Friday, April 27
6:30 AM – 12:00 PM

CONNECTION QUAD
ARRS Booth/Beverage and Lunch Breaks/Daily Cases/Commercial Exhibits/The Roentgen Fund*/Networking Zone/Electronic Exhibits
The Connection Quad is the place to be to connect and network with friends, colleagues, leaders, and exhibitors. Visit the ARRS and The Roentgen Fund* Booths and enjoy complimentary beverage and lunch breaks throughout the week.

LOCATION AND HOURS
Exhibit Hall C, Exhibition Level
To access, use escalators near hotel lobby bar

Monday, April 23 – Wednesday, April 25
9:15 AM – 4:00 PM

Thursday, April 26
9:15 AM – 1:00 PM

ANNUAL MEETING APP
Use the Annual Meeting App to access your personal meeting schedule, receive meeting updates, claim credits, connect with colleagues, participate in Discover Roentgen, and view Daily Cases and Electronic Exhibits.

DISCOVER ROENTGEN APP
This fun, interactive mobile scavenger hunt will unlock an augmented reality of radiology facts with case-based challenges and an exhibitor quest. Play the game to win prizes. Learn more at www.arrs.org/DiscoverRoentgen.

READING ROOM
This room will give attendees the opportunity to view Electronic Exhibits and Daily Cases, browse the internet, and claim credits in a dedicated, quiet area.

LOCATION AND HOURS
Washington 4, Exhibition Level
To access, use escalators near the Convention Registration Desk

Sunday, April 22 – Thursday, April 26
6:30 AM – 5:30 PM

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
McKinley, Mezzanine Level
To access, use escalators across from the Convention Registration Desk

Saturday, April 21 – Thursday, April 26
6:30 AM – 6:00 PM

Friday, April 27
6:30 AM – 12:00 PM

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

CONNECTION KIOSKS
Connection kiosks are available in the Welcome and Information Center area and the Reading Room. Attendees may view the Daily Cases and Electronic Exhibits, claim credits, and browse the internet. ARRS staff will be available in the connection kiosk areas to answer questions and provide assistance.

CLAIM CREDITS
Use the connection kiosks available in the Welcome and Information Center and the Reading Room or use the ARRS Meeting App to claim CME and SAM credits. Check with Education staff or the Information Desk in the Welcome and Information Center for questions about claiming education credits. Refer to page 9 for more information.

ELECTRONIC EXHIBITS
View the latest science, including ARRS award-winning Electronic Exhibits and Global Partner Society award-winning exhibits. The exhibits are available to attendees through the Meeting App, connection kiosks in the Welcome and Information Center area, and the Reading Room, or anywhere attendees have an internet connection.

CELL PHONES AND ELECTRONIC DEVICES
As a courtesy to your fellow attendees, please set your cell phone to vibrate. As a courtesy to other meeting attendees, please do not conduct phone conversations during educational 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 used by ARRS for the meeting.

EMERGENCIES/FIRST AID
In the event of a fire, medical, or police emergency, call ext. 11 from the nearest house phone. This will alert security for dispatch.

LOST AND FOUND
Any inquiries regarding lost and found items, please dial ext. 2681 from any hotel phone or call 202-328-2681.

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.

NO-SMOKING POLICY
ARRS has a no-smoking policy for all of its meetings. This policy applies to all ARRS meeting space used during the ARRS 2018 Annual Meeting.

RECORDING/PHOTOGRAPHY
Photography and audio/video recording of any type are not allowed. Attendees may be asked to leave the meeting if this policy is violated.
Education and Credit Overview

Learning Outcomes

■ Translate science and clinical case information into a deeper knowledge and comprehension of both the practice and science of radiology
■ Evaluate future directions in radiologic imaging and patient therapy from both the latest research and clinical perspectives
■ Describe the latest indications and applications of imaging techniques and their impact on patient care
■ Discuss practice-based strategies for mitigating errors and improving patient safety
■ Apply clinical and noninterpretive skills content to practice performance improvement
■ Describe the role and value of the radiologist in the diagnosis and treatment of patients
■ Analyze opportunities to improve care coordination with referring physicians

Target Audience

The ARRS 2018 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

ARRS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education activities for physicians.

Sessions and Courses: The ARRS designates this live activity for a maximum 48.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Electronic Exhibits: The ARRS designates this enduring material for a maximum of 68.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

On-Demand Sessions: ARRS designates this enduring material for a maximum 110.50 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.

Self-Assessment (SAM) Credits

SAM credits and SA-CME credits both fulfill MOC Part II requirements for the ABR. The 2018 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 SAM. This meeting offers 45.00 hours of SAM credit through courses, and select Electronic Exhibits offer SA-CME credit.

Claiming ARLM Credit

Medical imaging professionals can earn a Certificate of Achievement from the Academy of Radiology Leadership and Management Program (ARLM) by earning 50 education credits, with at least 30 of these 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 offer ARLM credit are marked in the schedule with the ARLM logo. Visit www.radleaders.org to learn more and claim ARLM credit.

International Continuing Education Credits

For information about transferring AMA PRA Category 1 Credit™ internationally, please go to www.arrs.org/AM18/EducationalCredit.
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ARRS wishes to recognize and thank the following Global Partner Societies.

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Brazilian College of Radiology and Diagnostic Imaging
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“For every dollar I received from my award, I was able to generate $9 in additional research funding.”

ACHALA A. VAGAL, M.D.
2012 ARRS/ELIO BRACCO SCHOLAR
Assistant Professor of Radiology,
University of Cincinnati

Learn more about **supporting the future of radiology** at The Roentgen Fund® Booth in the Connection Quad.

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Commercial Exhibitors

**LOCATION AND HOURS**

**EXHIBIT HALL C, EXHIBITION LEVEL**

- **Monday, April 23** – **Wednesday, April 25**  
  9:15 AM – 4:00 PM
- **Thursday, April 26**  
  9:15 AM – 1:00 PM

**CONNECTION QUAD**

ARRS Booth • Discover Roentgen • Beverage and Lunch Breaks  
• Daily Cases • Commercial Exhibitors • The Roentgen Fund®  
• Networking Zone • Electronic Exhibits

The Connection Quad is the place to be to connect and network with friends, colleagues, leaders, and exhibitors and to earn Discover Roentgen points. Visit the ARRS and The Roentgen Fund® Booths and enjoy complimentary beverage and lunch breaks throughout the week.

### 3D Printing in Medicine

**BOOTH 102**

3D Printing at ARRS

In recent years, 3D printing has grown substantially and has expanded into many areas of medicine, including medical imaging. Stop by the 3D Printing in Medicine Booth in the Connection Quad to learn more about this exciting new technology.

### American Board of Nuclear Medicine

**BOOTH 7**

American Board of Nuclear Medicine is the primary certifying organization for nuclear medicine in the United States. The Board serves the public through assurance of high quality patient care by establishing standards of training, initial certification, and continuing competence of physicians providing nuclear medicine diagnostic and therapeutic services.

[www.abnm.org](http://www.abnm.org)

### American Board of Radiology

**BOOTH 411**

The mission of The American Board of Radiology is to serve the public and the medical profession by certifying that its diplomats have acquired, demonstrated, and maintained a requisite standard of knowledge, skill and understanding essential to the practice of radiology, radiation oncology and radiologic physics.

[www.theabr.org](http://www.theabr.org)

### American Roentgen Ray Society

**BOOTH 500**

Staff will be available in the ARRS Booth to demonstrate and answer questions about member-exclusive products and services. Members who visit the booth will receive a 15% discount on all educational products.

[www.arrs.org](http://www.arrs.org)
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5655 Hudson Dr.
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Hudson, OH 44236
Phone: 330-655-3800
Fax: 330-655-3828

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Lynnwood, WA 98035
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sales@mrsys.com
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