

100<sup>th</sup> SCIENTIFIC ASSEMBLY AND ANNUAL MEETING



# Course Enrollment

*A Century  
of Transforming Medicine*  
**100 RSNA<sup>®</sup> 2014**

MCCORMICK PLACE, CHICAGO

NOV  
30  
THRU  
DEC  
05

Enroll in Courses & Book Your Hotel Room: [RSNA.org/Register](http://RSNA.org/Register)



*"For 100 years, RSNA has set the standard of excellence. As we celebrate the past, it's important to look to the future. Our annual meeting is the place to witness the pinnacle of medical imaging science and education."*

**N. Reed Dunnick, MD**  
2014 RSNA President



#RSNA14



# THANK YOU FOR REGISTERING FOR RSNA 2014

Educational courses are just one facet of the RSNA 2014 experience. Use this brochure to map out your week.

► Check [RSNA.org/AnnualMeeting](http://RSNA.org/AnnualMeeting) often for the latest updates to our program.



### Reserve your spot early for ticketed courses

Refresher courses, informatics courses, multisection courses, SAMs, and other offerings require tickets. Reserve your seat today!



### Don't miss featured presenters and Plenary Sessions

Find highlights of our program and a preview of our Plenary Session lecturers at [RSNA.org/MeetingProgram](http://RSNA.org/MeetingProgram).



### Plan to explore the Technical Exhibits

Keep your finger on the pulse of the latest technology by visiting RSNA's technical exhibit halls.



### Save time for scientific sessions, education exhibits, and digital posters

As the meeting approaches, we'll unveil our selection of digital posters, scientific sessions, and education exhibits in our online Meeting Program at [RSNA.org/MeetingProgram](http://RSNA.org/MeetingProgram).



### Join in all the festivities of our Centennial Celebration

One hundred years is worth celebrating. We have a variety of special activities planned for our community. Don't forget to make time for special events and features to help you make the most of your time at RSNA 2014.



### Add more to your meeting experience so you don't miss a thing

The Virtual Meeting allows you to access live-streamed and on-demand sessions, scientific presentations, and education exhibits. Learn more at [RSNA.org/Virtual](http://RSNA.org/Virtual).

## IMPORTANT DATES

### JULY 9

Course enrollment opens 10:30 AM CT

### NOVEMBER 7

Final housing deadline 5 PM CT

### NOVEMBER 26

Deadline to guarantee a seat for all ticketed courses

### NOVEMBER 30 - DECEMBER 5

100th Scientific Assembly and Annual Meeting

# The Celebration of a Century

This is the most exciting year yet to attend the RSNA annual meeting. We have a variety of activities planned to celebrate 100 years of the annual meeting with you, our community.



## Technical Exhibits Grand Opening

Sunday, November 30, 11:00 AM

The technical exhibits will open with a ceremony where RSNA leaders and industry partners will celebrate the technology and innovation that changed the world of radiology.






## Sip & Savor Social




Wednesday, December 3, 5:00 PM – 7:00 PM  
Skyline Ballroom, 3rd Floor  
McCormick Place, West Building

You're invited to celebrate RSNA's 100th annual meeting in the Skyline Ballroom with the RSNA community. Enjoy drinks, entertainment, and tastings by some of Chicago's top restaurants. Don't miss the celebration of a century. You can add tickets to your registration for only \$40 per person. (Must be 16 or older to be admitted to this event.)

## Centennial Showcase

Explore an onsite experience that lets you see, hear, and discover the advancements that shaped radiology. Located in Exhibit Hall D.

-  **Our Milestones**  
See the history of RSNA and radiology evolve through a timeline highlighting key dates in medical imaging.
-  **Centennial Gallery**  
Community, Education, Research, Innovation, and Patient Care: These are the principles that RSNA has championed throughout its 100 years. Discover how RSNA has been a forum for discoveries, sharing ideas, and vital relationships. You will also get a first-hand look at historical radiological equipment to see how far the specialty has evolved over the last century.
-  **Cases of the Century**  
Test yourself by diagnosing vintage images from years past.

-  **Roentgen's Welcome**  
Visitors will be welcomed to the Centennial Showcase by Wilhelm Roentgen, a virtual presenter that will share an account of the events that sparked a specialty—and how RSNA changed the way we practice medicine.
-  **Art & Science**  
Our dedicated gallery will feature a remarkable compilation of cutting-edge and artistic medical images.
-  **Memory Book**  
Leave your mark on history by sharing your favorite RSNA memory or your predictions for the future of the specialty in the Memory Book. Read other's stories and share your own.

# Put Your Finger on the Pulse of the Latest Technology

RSNA's technical exhibits are the best place to stay abreast of industry developments—and to see and touch new products, equipment, services, and software for your practice or institution.

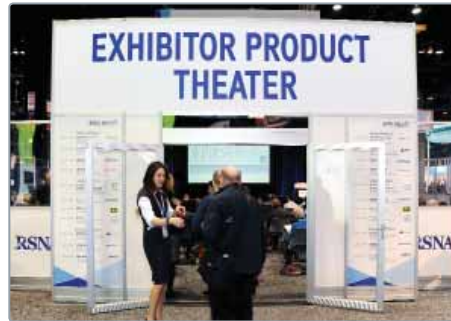
- ▶ Visit nearly 700 exhibitors showcasing products for a wide range of subspecialties
- ▶ Have a first look at the latest product launches that companies wait all year to unveil
- ▶ Speak with industry experts and get hands-on help and answers from experienced personnel

## MAKE TIME FOR THESE EXHIBIT HIGHLIGHTS:



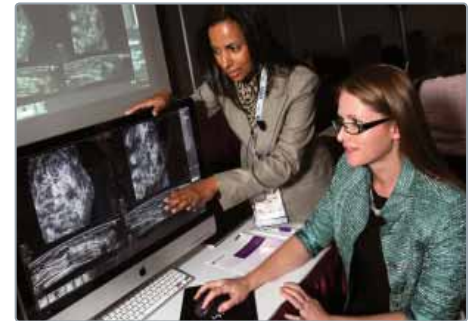
### IHE Image Sharing Demonstration

See how software and systems can communicate seamlessly to create a better patient experience.



### Exhibitor Product Theater

Attend live product demonstrations to see benefits and features first hand.



### Vendor Workshop

Get hands-on tutorials of vendor software systems.

## TECHNICAL EXHIBITS HOURS

SUNDAY, NOVEMBER 30

11:00 AM – 5:00 PM

MONDAY, DECEMBER 1 - WEDNESDAY, DECEMBER 3

10:00 AM – 5:00 PM

THURSDAY, DECEMBER 4

10:00 AM – 2:00 PM



# BOOK NOW, PAY LATER! Secure Your Hotel Today



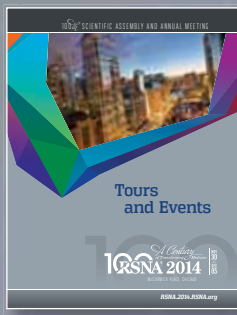
RSNA has contracted low rates at 84 hotels in the heart of Chicago.

- ▶ Take advantage of flexible booking terms and exceptional customer service.
- ▶ Free shuttle bus service between all 84 hotels and McCormick Place.

**BOOK NOW AT  
[RSNA.ORG/REGISTER](http://RSNA.ORG/REGISTER).  
POPULAR HOTELS  
FILL UP QUICKLY!**

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## YOU CAN ALSO REGISTER FOR:



**RSNA TOURS AND EVENTS** offer you exciting ways to experience Chicago during your stay for RSNA 2014. Enjoy the sounds of music, view architectural wonders, explore unique neighborhoods, learn a new cooking technique, and more.

For a full listing of tours and events, go to [RSNA.org/Register](http://RSNA.org/Register) and download the Tours & Events brochure.

- ▶ Go to [RSNA.org/Register](http://RSNA.org/Register) to add tours and events, as well as the 5K Fun Run, Sip & Savor Social, the Virtual Meeting, and to purchase Bistro RSNA tickets in advance.

# Enhance Your Experience

## EXPERIENCE RSNA 2014 HIGHLIGHTS ON YOUR OWN TIME

With the vast offerings RSNA 2014 provides, it's impossible to see it all at McCormick Place. Add the Virtual Meeting to your registration to access selected offerings, both live and on-demand.

The Virtual Meeting is available during the meeting and on-demand until December 19 at 4 PM CST. Earn CME for select live sessions only. No CME credits are awarded for viewing on-demand sessions.

Live sessions available for *AMA PRA Category 1 Credit™*.

**NEW!** Live sessions earn Category A and A+ credit for technologists

Register for access to:

- Digital Posters
- Cases of the Day – submit your diagnosis each day until midnight CST
- Refresher Courses



- Challenging "Image Interpretation" session
- Exhibitor Product Theater sessions
- "Hot Topics" and "Special Interest" sessions



## Bistro RSNA

Sunday, November 30 – Wednesday, December 3

11:00 AM – 2:30 PM

Technical Exhibit Hall A & Hall B

With an extensive gourmet menu and ample seating, Bistro RSNA is an excellent option to sit down to a comfortable lunch and network with colleagues. Purchase your ticket in advance for only \$20 per day (\$24.00 on-site). Visit [BistroRSNA.com](http://BistroRSNA.com) for more information.

**Bistro  
RSNA**



## JOIN THE 5k Fun Run TO FUEL CRITICAL RESEARCH

Tuesday, December 2, 6:30 AM

Arvey Field, South Grant Park, Chicago

Join us for the RSNA 2014 5k Fun Run and help the RSNA R&E Foundation keep our specialty at the forefront of healthcare. Whether you run or walk, enjoy an outing for a good cause with your colleagues along Chicago's beautiful Lake Michigan shore. Your fully tax-deductible donation will benefit the RSNA R&E Foundation. Participants will receive a commemorative t-shirt, while supplies last.

*Please note, in case of inclement weather, the Fun Run may be cancelled. All Fun Run fees are non-refundable and non-transferable.*



# Guide to Educational Offerings

At RSNA 2014, radiologists, radiation oncologists, and medical imaging professionals from around the world will convene and discuss the latest in radiologic innovations. Refresher courses, scientific sessions, plenary sessions, and education exhibits are available for continuing medical education.

## Learning Objectives

At the conclusion of the RSNA Scientific Assembly and Annual Meeting, participants will be able to:

- Access the results of new research and assess their potential applications to clinical practice.
- Improve basic knowledge and skills relevant to clinical practice.
- Practice new techniques.
- Assess the potential of technological innovations and advances to enhance clinical practice and problem solving.
- Apply principles of critical thinking to ideas from experts and peers in the radiologic sciences.

## Continuing Education Credits Available

The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this live activity for a maximum of 93.00 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

You will evaluate CME courses and claim your credit electronically, so you can print your certificate onsite at the meeting and walk away with certificate in hand. As the meeting approaches, you will receive information on how to claim CME instantly from the courses you take.

The Commission on Accreditation of Medical Physics Education Programs (CAMPEP) has approved the direct transfer of *AMA PRA Category 1 Credit™* to Medical Physics Education Programs (MPCEP) on a credit-for-credit basis for medical physicists.

RSNA is an ARRT®-approved Recognized Continuing Education Evaluation Mechanism Plus (RCEEM+) and will provide Category A+/A continuing education credits for radiologic technologists and radiologist assistants.

## International attendees:

CME credits may be transferable. See below for details.

- **Australia and New Zealand:** RSNA is an authorized CPD provider.
- **Canada:** *AMA PRA Category 1 Credits™* can be converted to Royal College MOC credits.
- **Mexico:** All *AMA PRA Category 1 Credits™* are transferable.
- **Europe:** Due to an agreement of mutual recognition the UEMS-European Accreditation Council will convert *AMA PRA Category 1 Credits™* to EACCME European CME Credits (ECMECs). For more information, contact the European Union of Medical Specialists (UEMS) at [info@uems.net](mailto:info@uems.net) or visit [UEMS.net](http://UEMS.net) or [EACCME.eu](http://EACCME.eu).
- **Worldwide:** CME claimed at RSNA 2014 may be transferable. Contact the CME governing body in your home country for details.

## WORLD-RENOWNED PRESENTERS AND LECTURERS

### SPECIAL LECTURER



**Francis Collins, MD, PhD**  
*Director of the National Institutes of Health*

### RSNA PRESIDENT'S ADDRESS

**N. Reed Dunnick, MD**

### NEW HORIZONS LECTURE

**Jonathan M. Rubin, MD, PhD**

### IMAGE INTERPRETATION SESSION

**Jeffrey C. Weinreb, MD**  
*Moderator*

**Carol H. Lee, MD**

**Theodore T. Miller, MD**

**Reginald F. Munden, MD, DMD**

**Anwar R. Padhani, MD**

**Howard A. Rowley, MD**

### ANNUAL ORATION IN DIAGNOSTIC RADIOLOGY

**David C. Levin, MD**

### ANNUAL ORATION IN RADIATION ONCOLOGY

**Lawrence B. Marks, MD**

### RSNA / AAPM SYMPOSIUM

**Paul E. Kinahan, PhD**  
*Moderator*

**Robert J. Gillies, PhD**

**Hedvig Hricak, MD, PhD**



## ▶ REGISTER FOR COURSES ONLINE AT [RSNA.ORG/REGISTER](http://RSNA.ORG/REGISTER)

Save time by enrolling in your courses online. You can also view the full learning objectives & CME content codes for each course. Click "Already Registered" and have your RSNA membership or registrant ID ready (also found on the mailing panel of this brochure). You may also mail or fax the course enrollment form.

**Note:** Attendance at each session is limited to the room seating capacity. Online enrollment occurs instantly, while faxed or mailed forms are processed in the order of receipt. Credits vary based on length of course.

**Fax**  
OR (Available 24 hours)  
1-888-772-1888  
1-301-694-5124

**Mail**  
OR Experient/RSNA 2014  
5202 Presidents Court, Suite 310  
Frederick, MD 21703 USA

### Non-ticketed Offerings

#### Scientific Sessions

Never-before-seen discoveries are unveiled at the RSNA annual meeting. More than 200 sessions feature over 1,500 scientific oral presentations in 16 subspecialties. See pages 29-30 for a selection of topics.

#### Education Exhibits / Digital Posters

Thousands of education exhibits and scientific posters are available for viewing in the Learning Center, covering 16 subspecialties. During the lunch hour, authors will be present for Poster Discussions.

#### Plenary Sessions

Open to all registrants and scheduled throughout the week, these sessions are highlights of the RSNA annual meeting. Keynote addresses, annual orations, interpretation sessions, and special symposia are offered.

#### Quantitative Imaging Reading Room

See a showcase of products that integrate quantitative analysis into the image interpretation process in the Learning Center. Exhibits will feature informational posters, computer-based demonstrations, and "Meet the Experts" presentations throughout the week. The purpose of these exhibits is educational in nature and is not designed for product promotion.

#### Special Interest/Controversies/Hot Topics

These sessions address radiology-related topics that are late-breaking, particularly controversial, or programs the RSNA Board of Directors deemed of particular importance. High levels of audience interest and opinion are expected, and audience viewpoints and questions are encouraged. Don't miss these dynamic, thought-provoking sessions. Find them in the Special Courses listings marked in green in the daily listings.

### Ticketed Offerings

#### Guarantee Your Seat

All ticketed courses must be confirmed prior to November 27 to guarantee a seat. RSNA ticketed courses fill up fast, so ensure you get the courses you need by enrolling on page 31 or at [RSNA.org/Register](http://RSNA.org/Register). There is no onsite course ticketing. Registrants without tickets will be allowed entrance into a course after all ticketed registrants have been seated.

### Ticketed Offerings (continued)

#### Refresher Courses (RC)

Refresher courses cover both traditional and cutting-edge topics in a subspecialty area. RSNA offers more than 300 refresher courses to enhance your knowledge. Refresher courses are listed in orange in the daily listings and can be found according to subspecialty indicated by the last two digits in the course number.

Chest . . . . .	01	Professional Organization for Career Development . . . . .	16
Radiology Education . . . . .	02	Emerging Technologies . . . . .	17
Cardiac . . . . .	03	Oncologic Imaging . . . . .	18
Musculoskeletal . . . . .	04	Radiation Oncology . . . . .	20
Neuroradiology . . . . .	05	Physics . . . . .	21, 22, 23, 25
Head and Neck . . . . .	06	Miscellaneous . . . . .	24
Genitourinary . . . . .	07	Health Policy and Practice . . . . .	27
Emergency Radiology . . . . .	08	Magnetic Resonance . . . . .	29
Gastrointestinal . . . . .	09	Leadership . . . . .	32
Ultrasound . . . . .	10	How-to / Hands-on Workshops . . . . .	31, 50
Nuclear Medicine . . . . .	11	Hands-on Workshops . . . . .	51, 52
Vascular . . . . .	12	Radiology Informatics . . . . .	53, 54
Pediatric Radiology . . . . .	13		
Interventional . . . . .	14		
Breast Imaging . . . . .	15		

Additional Informatics courses in dedicated classrooms are listed in orange and indicated as RC with A, B, or C and ##.

#### Multisession Courses (MS)

These courses are scheduled in time blocks, ranging from several hours to several days, to allow intensive study of various topics. You can participate in one or more of these sessions each day. Find them marked in blue with the "MS" prefix in the daily listings.

ASRT@RSNA . . . . .	MSRT	Pediatrics . . . . .	MSCP
Associated Sciences . . . . .	MSAS	Thoracic . . . . .	MSCT
Bolstering Oncoradiologic and Oncoradiotherapeutic Skills for Tomorrow (BOOST) . . . . .	MSRO	US . . . . .	MSCU
Case-based Review		Essentials of Radiology . . . . .	MSES
Abdomen . . . . .	MSCA	Molecular Imaging Symposium . . . . .	MSMI
Breast . . . . .	MSCB	Quality Improvement Symposium . . . . .	MSQI
Cardiac CT . . . . .	MSCC	Resident and Fellow Symposium . . . . .	MSRP
Magnetic Resonance . . . . .	MSCM	RSNA/ESR Emergency Symposium . . . . .	MSSR
Musculoskeletal . . . . .	MSCS		
Neuroradiology . . . . .	MSCN		
Nuclear Medicine:PET/CT . . . . .	MSCC		

## Ticketed Offerings (continued)


### Series Courses (VS)

Gain “take-home” knowledge to apply immediately to your practice in these extended courses, which combine invited lectures with scientific presentations. They are offered in a variety of subspecialties. Find time blocked in purple on the daily calendars and listed in purple in the daily listings.

Breast	VSBR	Interventional	VSIR
Cardiac	VSCA	Interventional Oncology	VSIO
Chest	VSCH	Musculoskeletal	VSMK
Emergency Radiology	VSER	Neuroradiology	VSNR
Gastrointestinal	VSGI	Nuclear Medicine	VSNM
Genitourinary	VSGU	Pediatric	VSPD
Radiology Informatics	VSIN	Vascular Imaging	VSVA

### Self-assessment Modules (SAMs)

The American Board of Radiology (ABR) granted approval to RSNA for SAM Deemed Status. This allows RSNA to develop and implement, without prior ABR review, enduring SAMs and in-person (“live”) SAMs that satisfy ABR Part II MOC requirements. Select RSNA courses have been approved for SAMs. Each RSNA in-person SAM is available for up to 1.50 SAM credits and 1.50 *AMA PRA Category 1 Credits*<sup>™</sup>. The RSNA annual meeting in-person SAMs are accredited by the MOC program of the Royal College of Physicians and Surgeons of Canada and approved by the Canadian Association of Radiologists.

To help ensure your seat in a SAM-approved course, register and enroll early at [RSNA.org/Register](http://RSNA.org/Register). SAM-approved courses are marked with  in the course listings.

**Fees:** RSNA members, \$0; non-members, \$50 per SAM.

### ARLM Certificate of Achievement

The Academy of Radiology Leadership and Management (ARLM) provides medical imaging professionals an opportunity to earn an ARLM Certificate of Achievement by earning 50 education credits across a spectrum of core learning domains, including Financial Skills, Human Resources, Professionalism, Legal/Contracting, Academic Mission, and General Management. ARLM approved courses are marked with  in the course listings.

## Special Courses

### CIR@RSNA 2014

“Nuevos Horizontes en Diagnostico por Imagen Desde el CIR: Sesión del Colegio Interamericano de Radiología (CIR)” (“New Horizons in Diagnostic Imaging from CIR: Session of the Interamerican College of Radiology (CIR)”) features presentations on diagnostic breakthroughs from our Latin American colleagues. Topics include imaging correlation with genetic markers in astrocytomas, cardiovascular CT, and MR innovations toward functional and molecular imaging, integrating nuclear medicine in breast imaging, and advanced cartilage imaging and bone marrow chemical shift imaging. This course is presented in Spanish with English translation.

## Special Courses (continued)

### Canada Presents

This session by the Canadian Association of Radiologists will demonstrate how discoveries in cardiovascular imaging are making a difference for patients. This session will include research presentations in multiple modalities, case studies, and a panel discussion by Canadian experts in cardiovascular radiology.



### Korea Presents

This session by the Korean Society of Radiology will highlight the latest in cardiovascular research. Presenters will explore imaging assessment of cardiovascular risk factors in stroke, coronary CT screening angiography, and a multicenter trial comparing CT stress perfusion imaging to fractional flow reserve imaging for assessing ischemic heart disease.



### Mock Jury Trial

Witness firsthand the process by which a medical malpractice trial is conducted and explore the issues surrounding a radiologist’s responsibility when observing incidentalomas. Watch how a judge officiates over a case, observe the techniques used by the plaintiff’s attorneys and defense attorneys to present their respective clients’ cases, and stay tuned for the verdict.

### Hospital Administrators Symposium (SPHA)

Designed for hospital administrators and healthcare executives, this session will cover relevant topics in the ever-changing world of healthcare. Explore issues for the coming decade, including radiology utilization management, mergers and acquisitions, issues and perspectives on teleradiology, new roles of radiologists, and the payer perspective.

### RSNA Diagnosis Live<sup>™</sup> (SPDL) and Interactive Game Refresher Courses

These exciting expert-moderated sessions feature a series of interactive case studies to challenge radiologists’ diagnostic skills. Submit and discuss your responses with your colleagues in a fast-paced game format. Bring your own charged mobile device to play along.

### NIH Grantsmanship Workshop (SPGW)

This workshop covers grantwriting techniques, from concept development to submission and the NIH review process. Speakers will address basic applications, K awards, and the NIH grant application and review processes. The workshop includes a mock study section. **\$35.**

### Study Section Reviewers Workshop (SPRW)

This workshop, offered in collaboration with the Academy for Radiology Research, is designed to train radiologists and NIH or similar imaging scientists on how to serve as an expert peer reviewer on grant study sections. The workshop includes a mock study section. **\$35.**

## EARLY BIRD SHUTTLE SERVICE AVAILABLE

**Sunrise inbound shuttle service is provided Sunday, November 30 through Friday December 5, 6:30 AM – 6:45 AM.**

Please see hotel lobby sign for exact departure time.

# Saturday, November 29

12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM
AAPM/RSNA Physics Tutorial for Residents SPPH01				AAPM/RSNA Tutorial on Equipment Selection SPPH02							
Special Courses SPGW01, SPRW01											
Special Course SPSP01											

**Program Key**

- Multisession Courses
- Plenary Sessions
- Refresher/Informatics Courses
- Series Courses
- Scientific Sessions
- Special Courses

**Symbol Key**

- Early Shuttle Available
- Additional Fee Offerings
- Non-ticketed Offerings
- SAM SAM
- ARLM Academy of Radiology Leadership and Management Programming
- DL RSNA Diagnosis Live™

12:00 PM – 2:00 PM

**SPPH01** AAPM/RSNA Physics Tutorial for Residents: Multi-spectral and Volumetric Imaging

1:00 PM – 5:00 PM

- SPGW01** NIH Grantsmanship Workshop
- SPRW01** RSNA/ARR Study Section Reviewers Workshop: What It Takes to be an Expert Reviewer for the NIH: The Peer Review Process Demystified
- SPSP01** Nuevos Horizontes en Diagnostico por Imagen Desde el CIR: Sesión del Colegio Interamericano de Radiologia (CIR) en Español/New Horizons in Diagnostic Imaging from CIR: Session of the Interamerican College of Radiology (CIR) in Spanish

2:15 PM – 4:15 PM

**SPPH02** AAPM/RSNA Tutorial on Equipment Selection: Multi-spectral and Volumetric Imaging

Add top science and education to your library



**NEW** Take home refresher courses on USBs. Includes up to 3 GB storage for your own files!

Take home great gifts for family and staff



Purchase high-quality clothing, accessories, and souvenirs.

Be sure to pick up your copy of the **RSNA Scan: 2013 Year in Review**

90+ groundbreaking RSNA offerings on a convenient USB card

**INCLUDES:**

Most challenging Cases of the Day, award-winning and most viewed digital posters, popular refresher courses and most read *Radiology* and *RadioGraphics* articles.

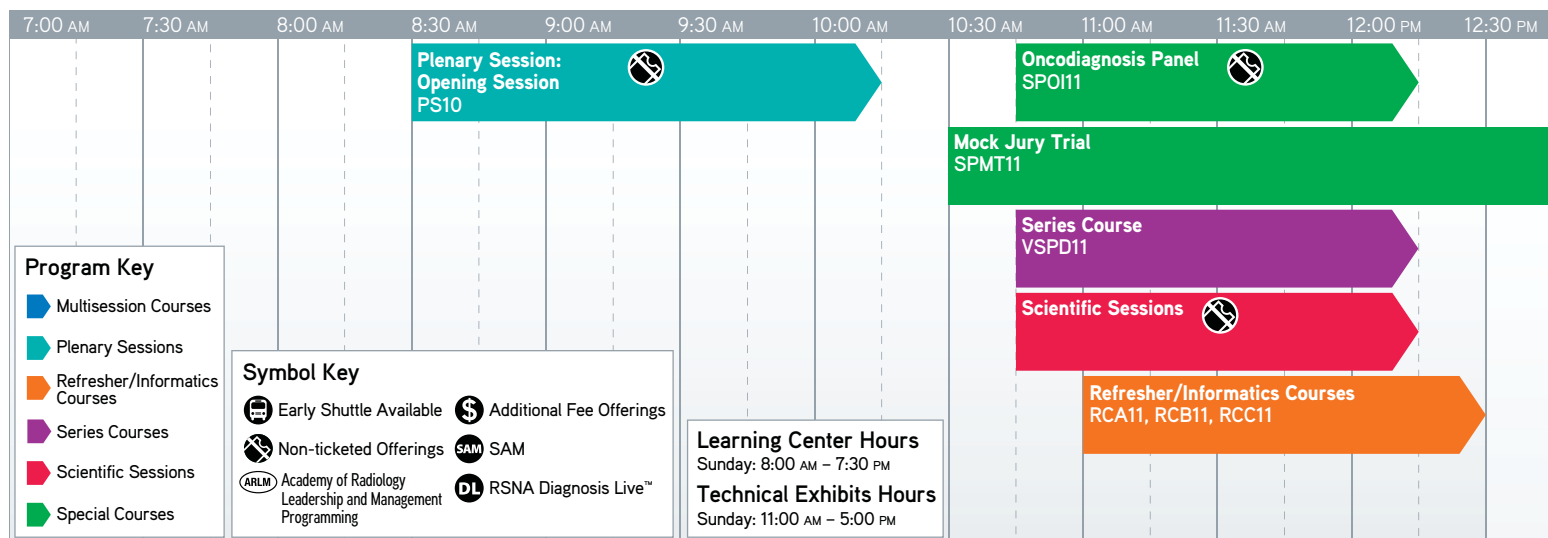


Visit the

**RSNA Store**

Located in RSNA Services, Lakeside Center

# Sunday, November 30



**8:30 AM – 10:15 AM**

**PS10** Sunday Plenary Session: Opening Session, President's Address  
Special Lecture: Exceptional Opportunities in Biomedical Research, Francis S. Collins, MD, PhD, Director of the National Institutes of Health

**10:30 AM – 3:30 PM**

**SPMT11** Mock Jury Trial: Incidenteloma

**10:45 AM – 12:15 PM**

**Scientific Sessions** (See pages 29-30)

**SPO11** Oncodiagnosis Panel: Breast Cancer

**VSPD11** Pediatric Series: Neuro

**11:00 AM – 12:30 PM**

**RCA11** Data Management and Analysis with Excel for Research and for Practicing Quality Improvement—A Hands-On Tutorial

**RCB11** Mobile Computing for Decision Support and Learning While You Work (Hands-on)

**RCC11** Fundamentals of 3D Printing

**12:30 PM – 1:30 PM**  
Poster Discussions *AMA PRA Category 1 Credit™*

**1:30 PM – 6:00 PM**

**VSI011** Interventional Oncology Series: Updates, Controversies and Emerging Questions in the Percutaneous Management of Renal Tumors

**2:00 PM – 3:30 PM**

**RC101** Pulmonary Thromboembolism: Concepts and Controversies 2014

**RC102** What's New from the Radiology Residency Review Committee

**RC103** Quantitative Measures in Cardiac CT and MR Imaging—Do They Matter?

**RC104** Sports Injuries in the Chest and Abdominal Wall: A Core Curriculum of the Body's Core

**RC105** Brain Aneurysms

**RC106** Head and Neck Top Five: Important Anatomy, Missed Diagnoses and Imaging Pearls

**RC107** GYN and Pelvic Floor 2014: Latest Imaging Guidelines and Angles Simplified!

**RC108** Contemporary Topics in Emergency Radiology: Update Your Knowledge (An Interactive Session)

**RC109** Gastrointestinal: Imaging the Obese Patient (An Interactive Session)

**RC110** Liver and Gallbladder Ultrasound including Elastography and Contrast

**RC111** Improving PET Interpretation (An Interactive Session)

## SUNDAY HIGHLIGHTS

**PS10:** President's Address and Special Lecture

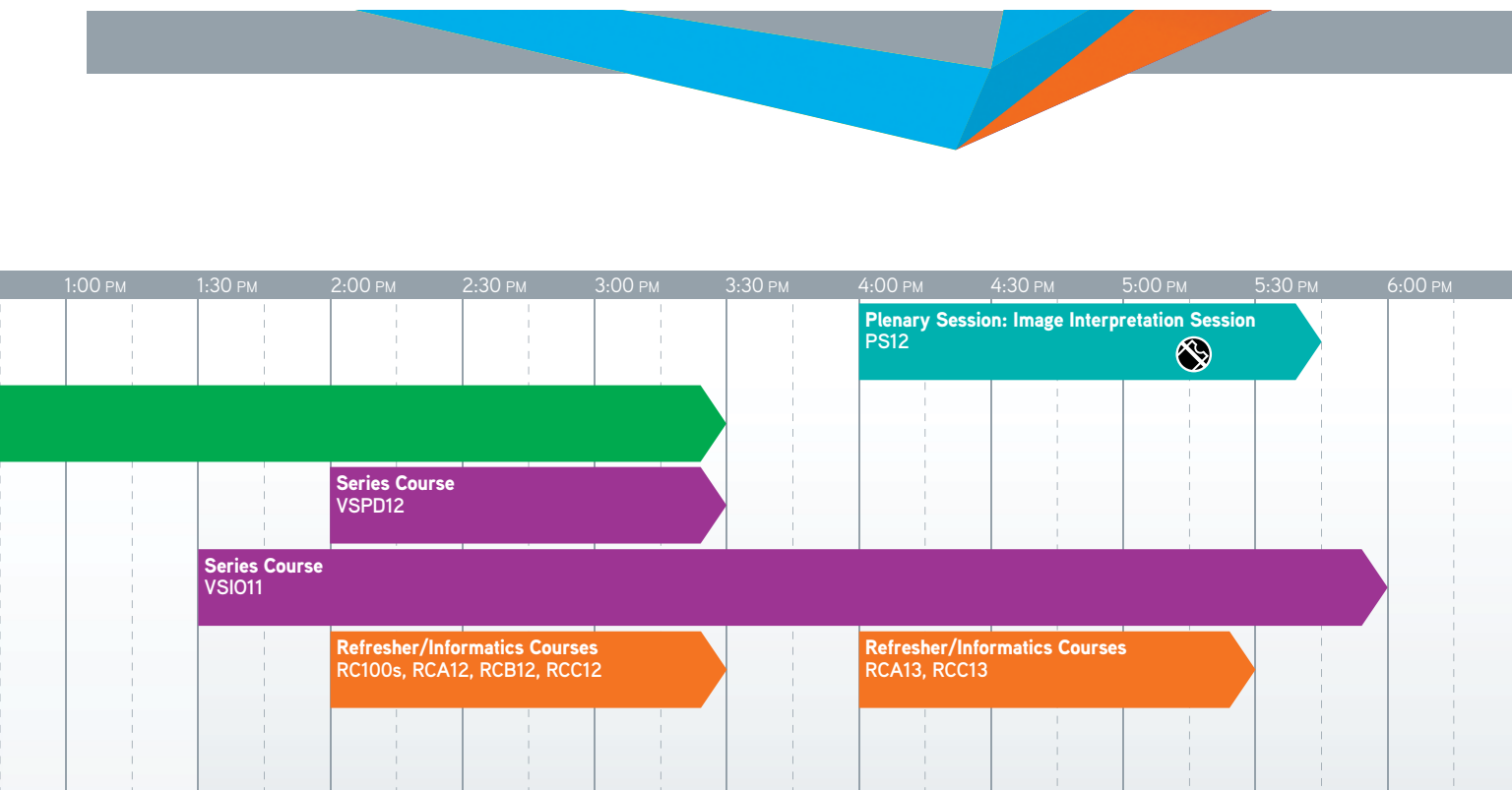
**PS12:** Image Interpretation Session

**VSI011:** Interventional Oncology Series

**SPMT11:** Mock Jury Trial: Incidenteloma

**11:00 AM** Technical Exhibits Grand Opening



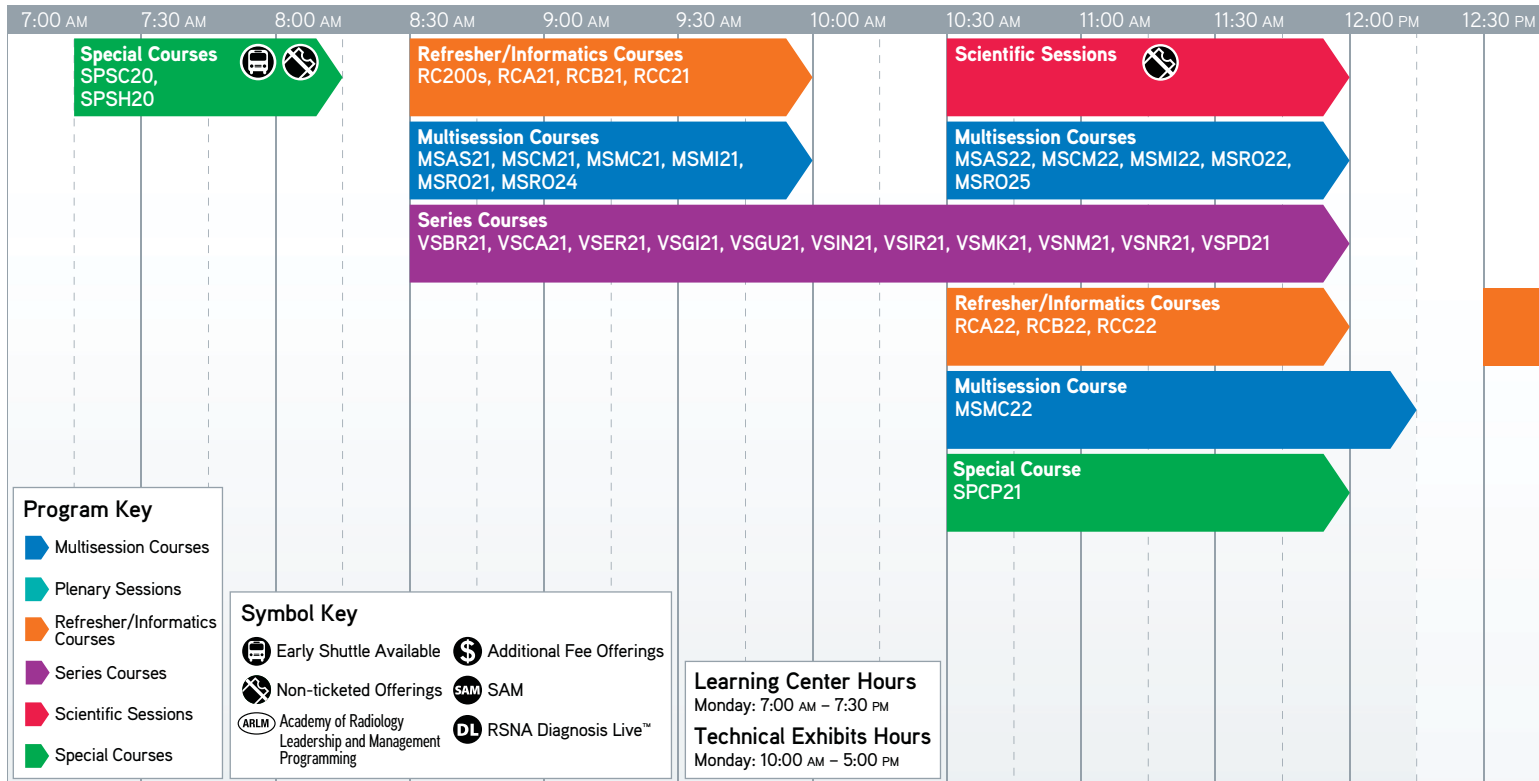


- RC112** Advanced Vascular Imaging Techniques and Applications (An Interactive Session) <sup>(SAM)</sup>
- RC114** Interactive Game: Interventional <sup>(DL)</sup>
- RC115** Breast Imaging: State of the Union
- RC116** Imaging in Therapeutic and Diagnostic Agent Development
- RC117** Molecular Imaging Beyond PET: MRI and Ultrasound/Photoacoustic Molecular Imaging
- RC118** Global Cancer Imaging—Insights from Overseas
- RC120** Molecular and Functional Imaging/Surrogate Markers in Radiation Oncology
- RC121** Medical Physics 2.0: Magnetic Resonance Imaging
- RC122** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Imaging Moving Targets
- RC123** Minicourse: Current Topics in Medical Physics—Diagnostic Dosimetry Review: Current Technologies and How We Use Them
- RC124** The Role of Advanced Imaging in Unraveling the Secrets of Ancient Art and Artifacts
- RC125** Quantitative Imaging: Quantitative Imaging in Ultrasound

- RC127** Changing the Culture of Radiology: How to Thrive in Turbulent Times <sup>(ARLM)</sup>
- RC129** Abdominal MRI Technique Update (An Interactive Session)
- RC132** Develop Your Radiology Financial Insight: Fundamental Principles You Should Know About Business <sup>(ARLM)</sup>
- RC150** MR Imaging-guided Breast Biopsy (Hands-on Workshop)
- RC151** Modern Non-invasive Imaging of Cholestatic Liver Diseases (How-to Workshop)
- RC152** Techniques for Interventional Sonography and Thermal Ablation (Hands-on Workshop)
- RC153** Advances in Radiology Decision Support
- RC154** Getting It Right: Informatics Tools for Imaging 3.0
- RCA12** National Library of Medicine: Free Online Databases: Images and More (Hands-on)
- RCB12** Optimizing PowerPoint Slides (Hands-on)
- RCC12** The Use of Business Analytics for Improving Radiology Operations, Quality, and Clinical Performance (In Association with the Society for Imaging Informatics in Medicine) <sup>(ARLM)</sup>
- VSPD12** Pediatric Series: Fetal/Neonatal

- 4:00 PM – 5:30 PM**
- RCA13** National Library of Medicine: Find Articles You Need: Searching PubMed/MEDLINE Efficiently (Hands-on)
- RCC13** IHE Workflow Efficiency from Acquisition to the Report
- 4:00 PM – 5:45 PM**
- PS12** Sunday Afternoon Plenary Session: Report of the RSNA Research & Education Foundation; Image Interpretation Session <sup>(Globe)</sup>

# Monday, December 1



## 7:15 AM – 8:15 AM

- SPSC20** Controversy Session: Shoulder Imaging: US vs MR 🚫 🚌
- SPSH20** Hot Topic Session: Meeting the Demand for 24/7 Coverage in Academic Medical Centers 🚫 🚌

## 8:30 AM – 10:00 AM

- MSAS21** Regulations and Legislation That Effect Health Care Access and Practice (An Interactive Session) (Sponsored by the Associated Sciences Consortium) (ARLM)
- MSCM21** Case-based Review of Magnetic Resonance (An Interactive Session)

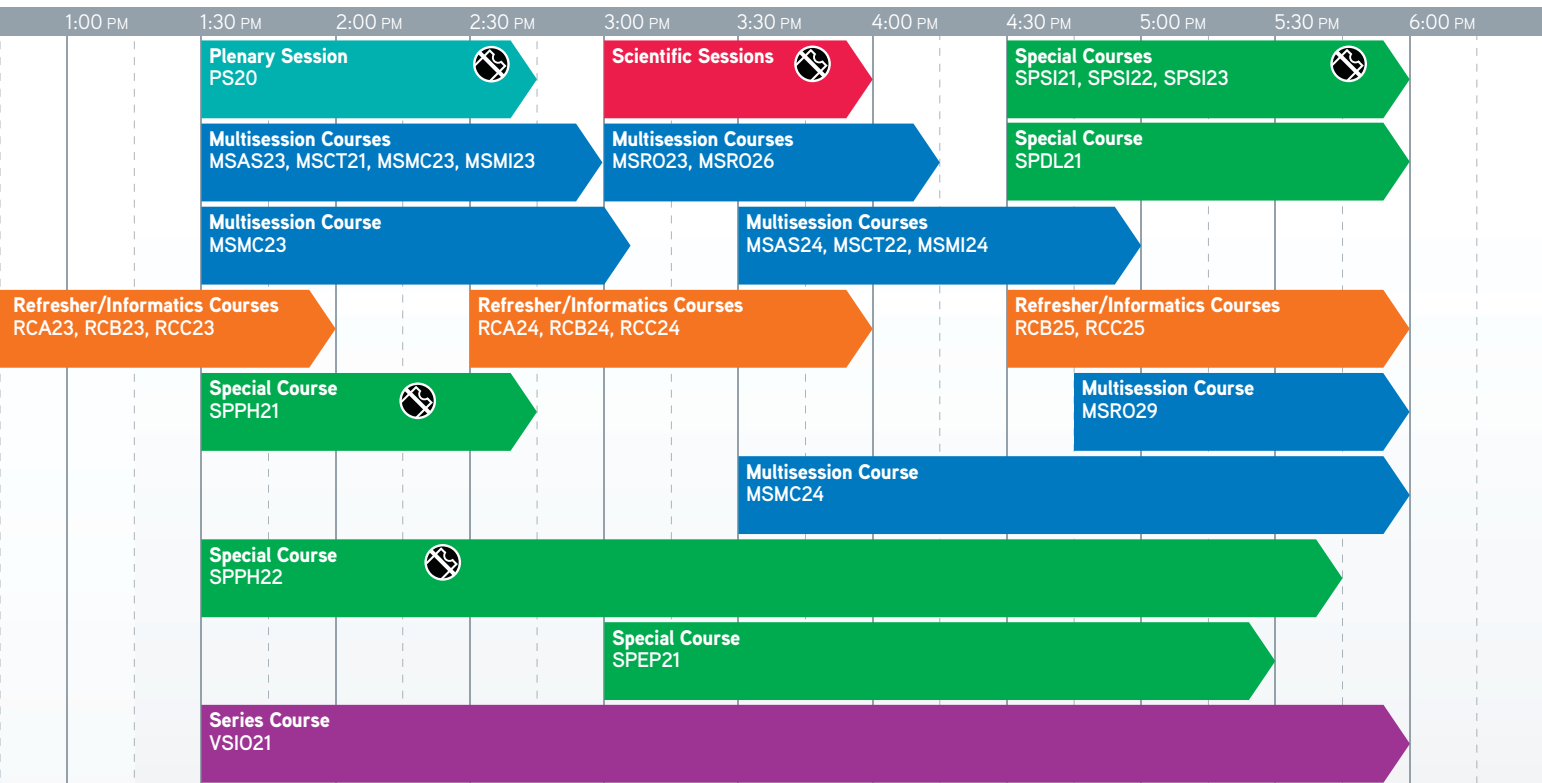
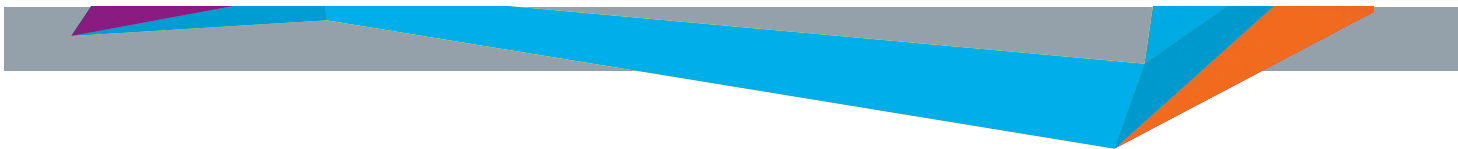
- MSMC21** Cardiac CT Mentored Case Review: Part I (In Conjunction with the North American Society for Cardiac Imaging) (An Interactive Session)
- MSMI21** Molecular Imaging Symposium: Oncology
- MSR021** BOOST: Lung—Oncology and Anatomy (An Interactive Session)
- MSR024** BOOST: Gastrointestinal—Oncology Anatomy (An Interactive Session)
- RC201** Lung Cancer Screening: Structured Reporting, Management and Practice Metrics (LUNGRADS)
- RC202** Milestone Implementation: Practical Lessons Learned at 3 Academic Institutions (ARLM)

- RC206** Skull Base and Nerves
- RC210** First Trimester Ultrasound (An Interactive Session)
- RC212** Peripheral Artery Disease (PAD)
- RC216** Communicating Effectively with Your Referring Physicians (Sponsored by the RSNA Public Information Committee) (ARLM)
- RC217** Elastography—Imaging Tissue Stiffness: Approaches and Applications (SAM)
- RC218** Imaging Tumor Response: Old and New Challenges (SAM)
- RC220** Imaging Evaluation of Post-Radiation Therapy Normal Tissue Effects

## MONDAY HIGHLIGHTS

- SPSC20, SPSH20:** Controversy/Hot Topic Sessions
- PS20:** New Horizons Lecture: Future of Ultrasound
- SPCP21:** Korea Presents: Exploring Evidence in Cardiovascular Imaging





- RC221** Medical Physics 2.0: Ultrasonography
- RC222** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Image Registration
- RC223** Minicourse: Recording and Reporting Radiation Dose: National and International Perspectives and Activities (An Interactive Session)
- RC224** Whole Body MR
- RC225** Quantitative Imaging: Quantitative Imaging in FDG-PET
- RC227** The Future of Radiology Payments: Can Analytics Help Radiologists Regain Control?
- RC229** Increasing Your Gynecological MRI Referral Base: Reaching Out to the Gynecologists (An Interactive Session)
- RC231** Master Class in Musculoskeletal Ultrasound (How-to Workshop)
- RC232** Change Management in Radiology
- RC250** Interventional Stroke Treatment: Practical Techniques and Protocols (An Interactive Session) (How-to Workshop)

- RC251** Abdominal Dual Energy CT in Practice (How-to Workshop)
- RC252** US-guided Interventional Breast Procedures (Hands-on)
- RC253** Clinical Applications of 3D Printing
- RCA21** Data Management and Analysis with Excel for Research and for Practicing Quality Improvement—A Hands-On Tutorial
- RCB21** Creating, Storing, and Sharing Teaching Files Using RSNA's MIRC® (Hands-on)
- RCC21** Leveraging Your Data: Informatics Approaches and Solutions to Improve Imaging Care Delivery

**8:30 AM – 12:00 PM**

- VSBR21** Breast Series: MR Imaging
- VSCA21** Cardiac Series: Transcatheter Aortic Valve Replacement (TAVR)
- VSER21** Emergency Radiology Series: Evidence-based Imaging in Emergency Radiology—What Is the Evidence?
- VSGI21** Gastrointestinal Series: Imaging of the Cirrhotic Patient

- VSGU21** Genitourinary Series: Prostate MR 2014: Current Role in Staging and Surveillance and Intervention
- VSIN21** Radiology Informatics Series: Mobile Computing Devices
- VSIR21** Interventional Series: Embolotherapy
- VSMK21** Musculoskeletal Series: Elbow, Hand and Wrist Imaging
- VSNM21** Nuclear Medicine Series: Assessment of Cancer Treatment Response: Updates
- VSNR21** Neuroradiology Series: Spine
- VSPD21** Pediatric Series: MSK

**10:30 AM – 12:00 PM**

- Scientific Sessions** (See pages 29-30)
- MSAS22** Think Inside the Box: Combining Strategy and Design to Re-invent Radiology Master Planning (An Interactive Session) (Sponsored by the Associated Sciences Consortium)
- MSCM22** Case-based Review of Magnetic Resonance (An Interactive Session)

# KOREA

P R E S E N T S

**Monday, December 1**

**10:30 AM – 12:00 PM**

**Exploring Evidence in Cardiovascular Imaging**

Learn about Korean breakthroughs in cardiovascular imaging.

**Special Recognition for Korean Attendees**

Receive a special ribbon for your badge at this session with opening remarks by RSNA President, N. Reed Dunnick, M.D.

*Featured throughout the week:*

▶ **Navigating RSNA 2014**

Learn tips for getting around the meeting from your Korean colleagues at RSNA's Global Connection booth.

▶ **Korean Society of Radiology (KSR)**

Visit the KSR booth #1118 to learn about the radiology community in Korea.





# Monday, December 1 [continued]

**MSMI22** Molecular Imaging Symposium: Radiogenomics: Linking Imaging to the Future—How to Prepare for the Radiogenomic Revolution

**MSR022** BOOST: Lung—Integrated Science and Practice (ISP) Session

**MSR025** BOOST: Gastrointestinal—Integrated Science and Practice (ISP) Session

**RCA22** Correlating Imaging with Human Genomics (Hands-on)

**RCB22** Creating and Delivering Online and Mobile Education Content: From Online Courses to Interactive eBooks (Hands-on)

**RCC22** Monitoring Radiation Exposure: Standards, Tools and IHE REM

**SPCP21** Korea Presents: Exploring Evidence in Cardiovascular Imaging

10:30 AM – 12:15 PM

**MSMC22** Cardiac CT Mentored Case Review: Part II (In Conjunction with the North American Society for Cardiac Imaging) (An Interactive Session)

12:30 PM – 2:00 PM

**RCA23** Slicer: 3D Interactive Visualization of DICOM Images for Radiology Applications (Hands-on)


**RCB23** 3D Printing (Hands-on)


**RCC23** Next Generation Infrastructure for Medical Imaging (In Association with the Society for Imaging Informatics in Medicine)

12:15 PM – 1:15 PM


Poster Discussions *AMA PRA Category 1 Credit™*

1:30 PM – 2:45 PM

**PS20** Monday Plenary Session; New Horizons Lecture: Future of Ultrasound 

**SPPH21** AAPM/RSNA Basic Physics Lecture for the Radiologic Technologist: Radiography: Getting the Information We Need and Doing It Efficiently (An Interactive Session) 

1:30 PM – 3:00 PM


**MSAS23** Unsolved Dilemmas in a Digital World: Improving Radiologist and Technologist Communication (An Interactive Session) (Sponsored by the Associated Sciences Consortium) 

**MSCT21** Case-based Review of Thoracic Radiology (An Interactive Session)

**MSMC23** Cardiac CT Mentored Case Review: Part III (In Conjunction with the North American Society for Cardiac Imaging) (An Interactive Session)

**MSMI23** Molecular Imaging Symposium: Cellular and Microenvironment Imaging

1:30 PM – 5:45 PM

**SPPH22** Physics Symposium: Quality and Safety in Radiotherapy: Learning the New Approaches in TG-100 and Beyond 

1:30 PM – 6:00 PM

**VSIO21** Interventional Oncology Series: Hepatocellular Carcinoma

2:30 PM – 4:00 PM

**RCA24** National Library of Medicine: Save Searches, Get Updates: The Free PubMed My NCBI Tool (Hands-on)

**RCB24** Using RSNA Clinical Trial Processing (CTP) Software for Deidentification, Clinical Trials and Research Applications (Hands-on)


**RCC24** IHE Clinical Solutions for Interoperability—Imaging and Beyond: IHE and HIE does the Order Matter?

3:00 PM – 4:00 PM

**Scientific Sessions**  (See pages 29-30)

3:00 PM – 4:15 PM


**MSR023** BOOST: Lung—Case-based Review (An Interactive Session)

**MSR026** BOOST: Gastrointestinal—Case-based Review (An Interactive Session) 

3:00 PM – 5:30 PM

**SPEP21** Estate Planning Today for a Better Tomorrow (No CME)

3:30 PM – 5:00 PM

**MSAS24** A Systematic Approach to Minimizing Radiation Dose (An Interactive Session) (Sponsored by the Associated Sciences Consortium) 

**MSCT22** Case-based Review of Thoracic Radiology (An Interactive Session)

**MSMI24** Molecular Imaging Symposium: Molecular Brain Imaging: From Research to Clinical Applications


3:30 PM – 6:00 PM


**MSMC24** Cardiac CT Mentored Case Review: Part IV (In Conjunction with the North American Society for Cardiac Imaging) (An Interactive Session)


4:30 PM – 6:00 PM


**RCB25** Hands-on Introduction to Social Media (Hands-on)

**RCC25** Precision Medicine through Image Phenotyping

**SPDL21** RSNA Diagnosis Live™: Chest/Abdomen/Neuroradiology 

**SPSI21** Special Interest Session: Radiology and Pathology Diagnostics: Is It Time to Integrate? 

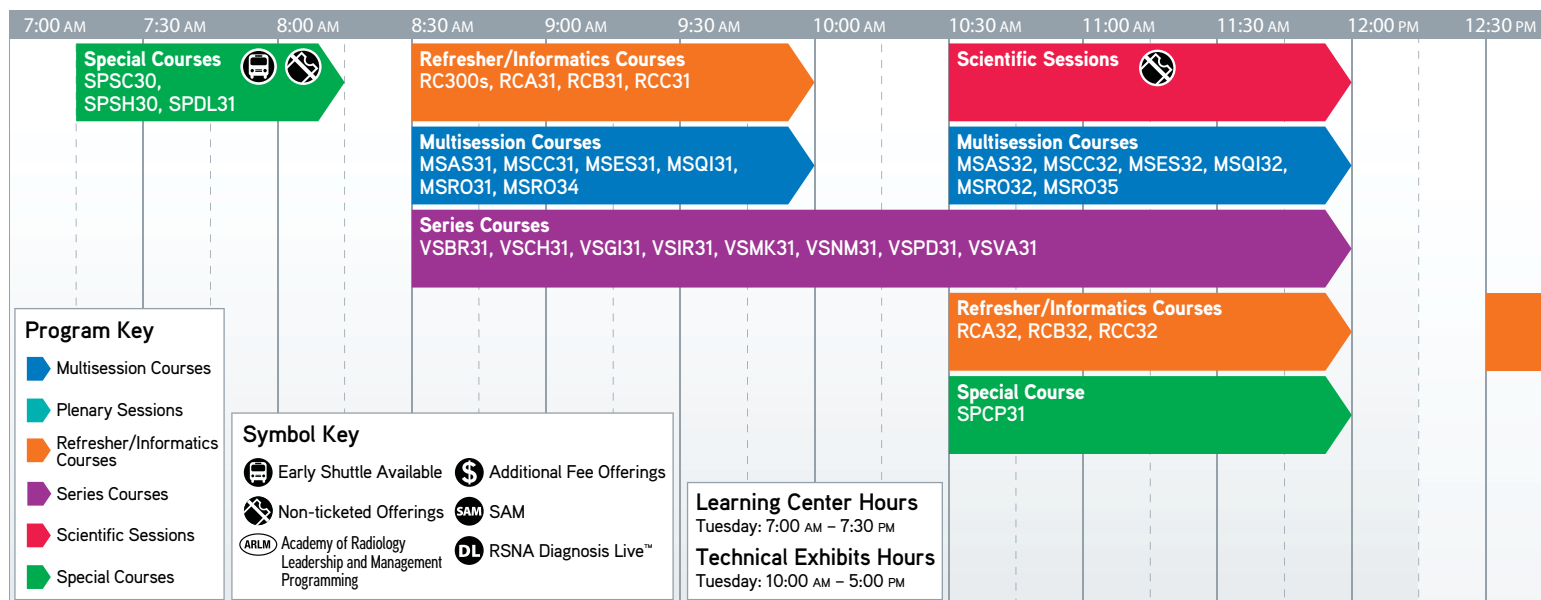
**SPSI22** Special Interest Session: Optimizing Quantitative Imaging Biomarkers for Practice: QIBA Examples from CT, MR, PET and US 

**SPSI23** Special Interest Session: Image Wisely 

4:45 PM – 6:00 PM

**MSR029** BOOST: Gastrointestinal—Hands-on Contouring

# Tuesday, December 2

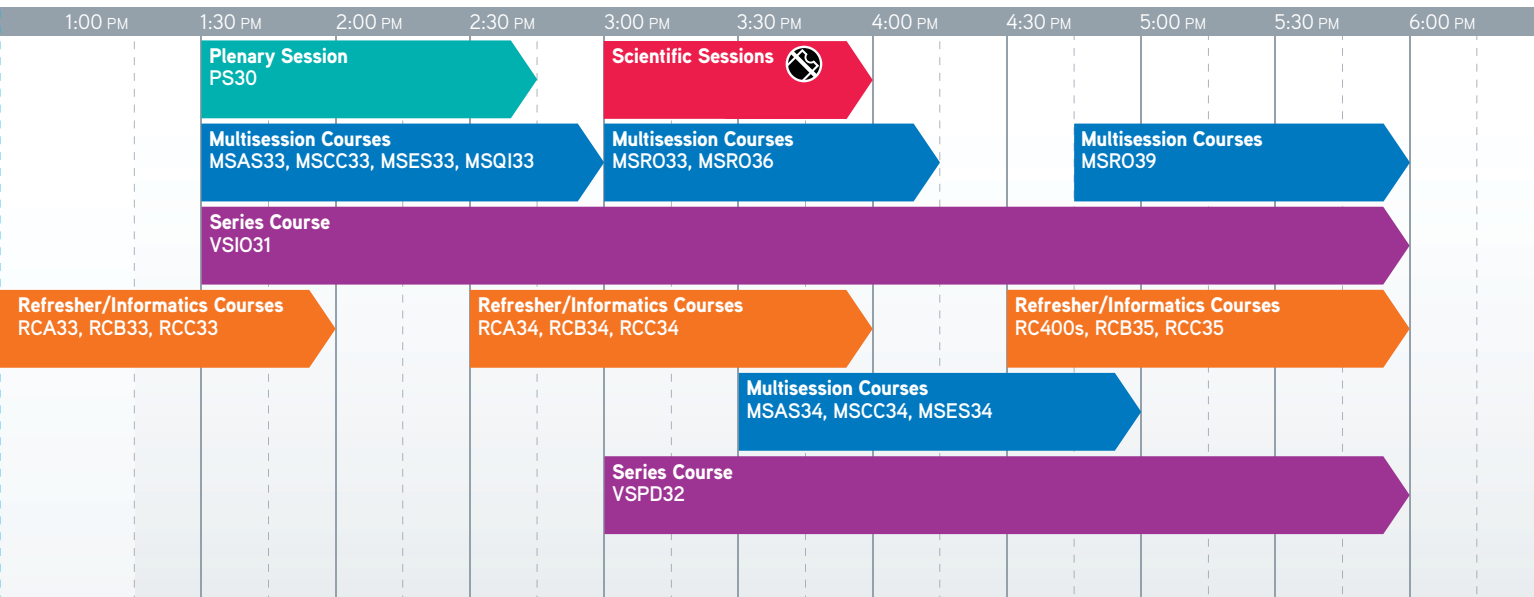


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| <p><b>6:30 AM</b></p> <p>RSNA 2014 5k Fun Run (<i>see page 5</i>)</p> <p><b>7:15 AM – 8:15 AM</b></p> <p><b>SPSC30</b> Controversy Session: Head and Neck Modality Roulette: What's the Best Imaging Option?  </p> <p><b>SPSH30</b> Hot Topic Session: Advances in Musculoskeletal Tumor Ablation  </p> <p><b>SPDL31</b> RSNA Diagnosis Live™: Body, Cardiac, MSK, Neuro, Ent Po Pourée  </p> <p><b>8:30 AM – 10:00 AM</b></p> <p><b>MSAS31</b> Managing Health Care: Imaging Utilization—An International Perspective (An Interactive Session) (Sponsored by the Associated Sciences Consortium) </p> <p><b>MSCC31</b> Case-based Review of Nuclear Medicine: PET/CT Workshop—Head and Neck Cancers (In Conjunction with SNMMI) (An Interactive Session)</p> | <p><b>MSES31</b> Essentials of Non-interpretive Skills</p> <p><b>MSQI31</b> Quality Improvement in Your Practice: Fundamentals of Lean—What, How, and Why Now?  </p> <p><b>MSRO31</b> BOOST: Head and Neck—Oncology Anatomy (An Interactive Session)</p> <p><b>MSR034</b> BOOST: Gynecology—Oncology Anatomy (An Interactive Session)</p> <p><b>RC302</b> Strategies for ABR Core Exam and ACGME Program Requirements </p> <p><b>RC303</b> Adult Structural and Congenital Heart Disease (An Interactive Session)</p> <p><b>RC305</b> Alzheimer's Disease </p> <p><b>RC306</b> Sinonasal and Orbital Imaging </p> <p><b>RC307</b> GU Ultrasound 2014: The Expert's Update on Kidney, Gynecologic and Testicular US </p> <p><b>RC308</b> Emergency Imaging in Vulnerable Populations—Considerations and Calibrations</p> | <p><b>RC310</b> Second and Third Trimester Obstetrical Ultrasound</p> <p><b>RC316</b> The Aging Radiologist: How to Cope, When to Quit (Sponsored by the RSNA Professionalism Committee) (An Interactive Session) </p> <p><b>RC317</b> MR Neurography and New Methods to Image Pain</p> <p><b>RC318</b> Imaging of Tumor Syndromes (An Interactive Session)</p> <p><b>RC320</b> New Paradigms for the Treatment of Hodgkin's and non-Hodgkin's Lymphomas: The Crucial Role of Imaging</p> <p><b>RC321</b> Medical Physics 2.0: Information Management and Display</p> <p><b>RC322</b> Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Site-specific IGRT Applications: Impact of Different Approaches on Uncertainties</p> |
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## TUESDAY HIGHLIGHTS

- SPSC30, SPSH30:** Controversy/Hot Topic Sessions
- RC325:** Quantitative Imaging: Volumetric CT as a Biomarker for Disease
- SPCP31:** Canada Presents: Beyond Diagnosis—How Cardiovascular Imaging Research in Canada Is Improving Clinical Outcomes
- PS30:** Annual Oration in Diagnostic Radiology





- RC323** Minicourse: Recording and Reporting Radiation Dose: Interventional/Angiography/Fluoroscopy
- RC324** Extranodal Lymphoma from Head to Toe (In Conjunction with the American Institute for Radiologic Pathology)
- RC325** Quantitative Imaging: Volumetric CT as a Biomarker for Disease **SAM**
- RC327** Medical Malpractice in Radiology: Policy and Practical Perspectives **ARLM**
- RC329** Interactive Game: Clinical Problems in Body MRI—Case-based Instruction **DL**
- RC332** How to Avoid Failure: Qualities of a Successful Leader **ARLM**
- RC350** CTA from Head to Toe (How-to Workshop)
- RC351** Pitfalls in Liver Imaging (How-to Workshop)
- RC352** Doppler US: Abdominal and Visceral Applications (Hands-on Workshop)
- RC353** 3D Printing: A Powerful Tool for Applied Imaging Science
- RC354** Health IT Incentive Programs: Experience from Radiology Practices in Hospitals and Health Systems
- RCA31** Slicer: Quantitative Medical Imaging for Clinical Research and Practice (Hands-on)
- RCB31** Creating Radiology eBooks for the iPad (Hands-on)

- RCC31** RadLex®: Overview of a New Lexicon for Radiology
- 8:30 AM – 12:00 PM**
- VSBR31** Breast Series: Emerging Technologies in Breast Imaging
  - VSCH31** Chest Series: Thoracic CT and MR Imaging: State of the Art
  - VSGI31** Gastrointestinal Series: State-of-Art CT and MR in Luminal GI Diseases
  - VSIR31** Interventional Series: Complications in Interventional Oncology—Avoidance, Recognition and Management
  - VSMK31** Musculoskeletal Series: Ultrasound
  - VSNM31** Nuclear Medicine Series: Non-FDG PET Radiotracers in Oncology
  - VSPD31** Pediatric Series: CV/IR
  - VSVA31** Vascular Imaging Series: MR Angiography—Principles and Technique Optimization

- 10:30 AM – 12:00 PM**
- Scientific Sessions** **DL** (See pages 29-30)
  - MSAS32** Imaging Updates—New Technology Practices (An Interactive Session) (Sponsored by the Associated Sciences Consortium)
  - MSCC32** Case-based Review of Nuclear Medicine: PET/CT Workshop—Cancers of the Thorax (In Conjunction with SNMMI) (An Interactive Session)

- MSES32** Essentials of Cardiac Imaging
- MSQI32** Radiologist Performance Improvement: Implementing Lean in Your Practice **SAM**
- MSR032** BOOST: Head and Neck—Integrated Science and Practice (ISP) Session
- MSR035** BOOST: Gynecology—Integrated Science and Practice (ISP) Session
- RCA32** Tapping into Big Data in Images: Annotation and Image Markup, Tools, and Applications (Hands-on)
- RCB32** Overview of RSNA's Teaching File Software (MIRC®) (Hands-on)
- RCC32** Workflow Tools to Optimize Departmental Operations
- SPCP31** Canada Presents: Beyond Diagnosis—How Cardiovascular Imaging Research in Canada Is Improving Clinical Outcomes

**12:15 PM – 1:15 PM**  
Poster Discussions *AMA PRA Category 1 Credit™*

- 12:30 PM – 2:00 PM**
- RCA33** National Library of Medicine: Find Articles You Need: Searching PubMed/MEDLINE Efficiently (Hands-on)
  - RCB33** 3D Printing (Hands-on)
  - RCC33** The RSNA Reporting Initiative: Developing a Library of Best-Practices Radiology Report Templates

# CANADA

P R E S E N T S

**Tuesday, December 2**

**10:30 AM – 12:00 PM**

**Beyond Diagnosis: How Cardiovascular Imaging  
Research in Canada is Improving Clinical Outcomes**

Learn how discoveries in cardiovascular imaging are making a difference for patients.

**Special Recognition for Canadian Attendees**

Receive a special ribbon for your badge at this session with opening remarks by RSNA President, N. Reed Dunnick, M.D.

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*Featured throughout the week:*

▶ **Navigating RSNA 2014 in English and en français**

Learn the best tips for getting around the meeting from your colleagues at RSNA's Global Connection booth.



▶ **Canadian Association of Radiologists (CAR)**

Visit the CAR booth #1218 to learn about the radiology community in Canada.



# Tuesday, December 2 [continued]

1:30 PM – 2:45 PM


**PS30** Tuesday Plenary Session; Annual Oration in Diagnostic Radiology: Transitioning from Volume-Based to Value-Based Practice: A Meaningful Goal for All Radiologists or a Meaningless Platitude?  

1:30 PM – 3:00 PM

**MSAS33** Management of Portal Hypertension (An Interactive Session) (Sponsored by the Associated Sciences Consortium)

**MSCC33** Case-based Review of Nuclear Medicine: PET/CT Workshop—Cancers of the Abdomen and Pelvis (In Conjunction with SNMMI) (An Interactive Session)

**MSES33** Essentials of Chest Imaging

**MSQI33** Staff and Patient Safety: The Lean Toolbox in Practice 

1:30 PM – 6:00 PM

**VSIO31** Interventional Oncology Series: Liver Metastases

2:30 PM – 4:00 PM

**RCA34** Rapid Application Development with XIP™—the eXtensible Imaging Platform (Hands-on)

**RCB34** Making the Most of Google Docs: Collaborative Word Processors, Spreadsheets, and Calendars (Hands-on)

**RCC34** Using IHE Profiles to Plan for Medical Imaging

3:00 PM – 4:00 PM

**Scientific Sessions**  (See pages 29-30)

3:00 PM – 4:15 PM


**MSR033** BOOST: Head and Neck—Case-based Review (An Interactive Session)

**MSR036** BOOST: Gynecology—Case-based Review (An Interactive Session)

3:00 PM – 6:00 PM

**VSPD32** Pediatric Series: Abdomen

3:30 PM – 5:00 PM


**MSAS34** Normalization of Deviance: What Is Happening in Your Department? (Sponsored by the Associated Sciences Consortium) (An Interactive Session) 

**MSCC34** Case-based Review of Nuclear Medicine: PET/CT Workshop—Lymphoma/Melanoma/Sarcoma (In Conjunction with SNMMI) (An Interactive Session)


**MSES34** Essentials of Breast Imaging

4:30 PM – 6:00 PM

**RC401** Contemporary Imaging of Lung Cancer

**RC402** Interactive Game: How to Be the Speaker Everyone Wants You to Be 

**RC403** Interpreting Coronary Artery CTA 


**RC404** Hip Imaging: Challenges and Solutions 

**RC405** Traumatic Brain Injury

**RC406** Temporal Bone Imaging 


**RC407** Abdominal Incidentalomas: What to Report for Adrenal, Renal and Adnexal Incidental Findings

**RC408** Blood on the Brain: Intracranial Hemorrhage in the Emergency Setting (An Interactive Session)

**RC409** Interactive Game: Gastrointestinal: Abdominal Masses 

**RC410** Renal Ultrasound and Doppler (An Interactive Session)

**RC411** Advances in Cardiac Nuclear Imaging: SPECT/CT and PET/CT


**RC412** Thoracic Aorta: Key Concepts (An Interactive Session) 

**RC414** Venous Disease

**RC415** Clinical Breast MR Imaging (An Interactive Session)

**RC416** Radiology Education in Developing Nations: A Focus on Needs and Support in Latin America and Asia Oceania Regions (Sponsored by the RSNA Committee on International Radiology Education)

**RC417** Novel Applications of Dual Energy CT

**RC418** Interactive Game: Interactive Quiz Cases in Body Oncologic Imaging 

**RC420** Role of Stereotactic Ablative Radiotherapy (SABR) and Interventional Radiology in the Management of Oligometastases

**RC421** Medical Physics 2.0: Fluoroscopy


**RC422** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Margins and Margin Design

**RC423** Minicourse: Recording and Reporting Radiation Dose: CT

**RC424** Mentored Case Approach to Pediatric Cardiovascular Disease 1: Vascular (An Interactive Session)

**RC425** Quantitative Imaging: Informatics

**RC427** Critical Issues Facing the Practice of Radiology in 2015 and Beyond: A Roundtable with ACR Leaders (In Conjunction with the American College of Radiology)

**RC429** Interactive Game: Prostate MRI Using PI-RADS (Prostate Imaging Reporting and Data System) 

**RC432** Measuring Quality in Radiology

**RC450** Vertebral Augmentation (How-to Workshop)

**RC451** Imaging in Practice: MRI of the GIT (How-to Workshop)

**RC452** Nerve Ultrasound Based on a Regional Approach: Shoulder and Neck (Hands-on Workshop)

**RC453** Clinical Decision Support: Lessons from the Medicare Imaging Demonstration

**RC454** Ergonomics

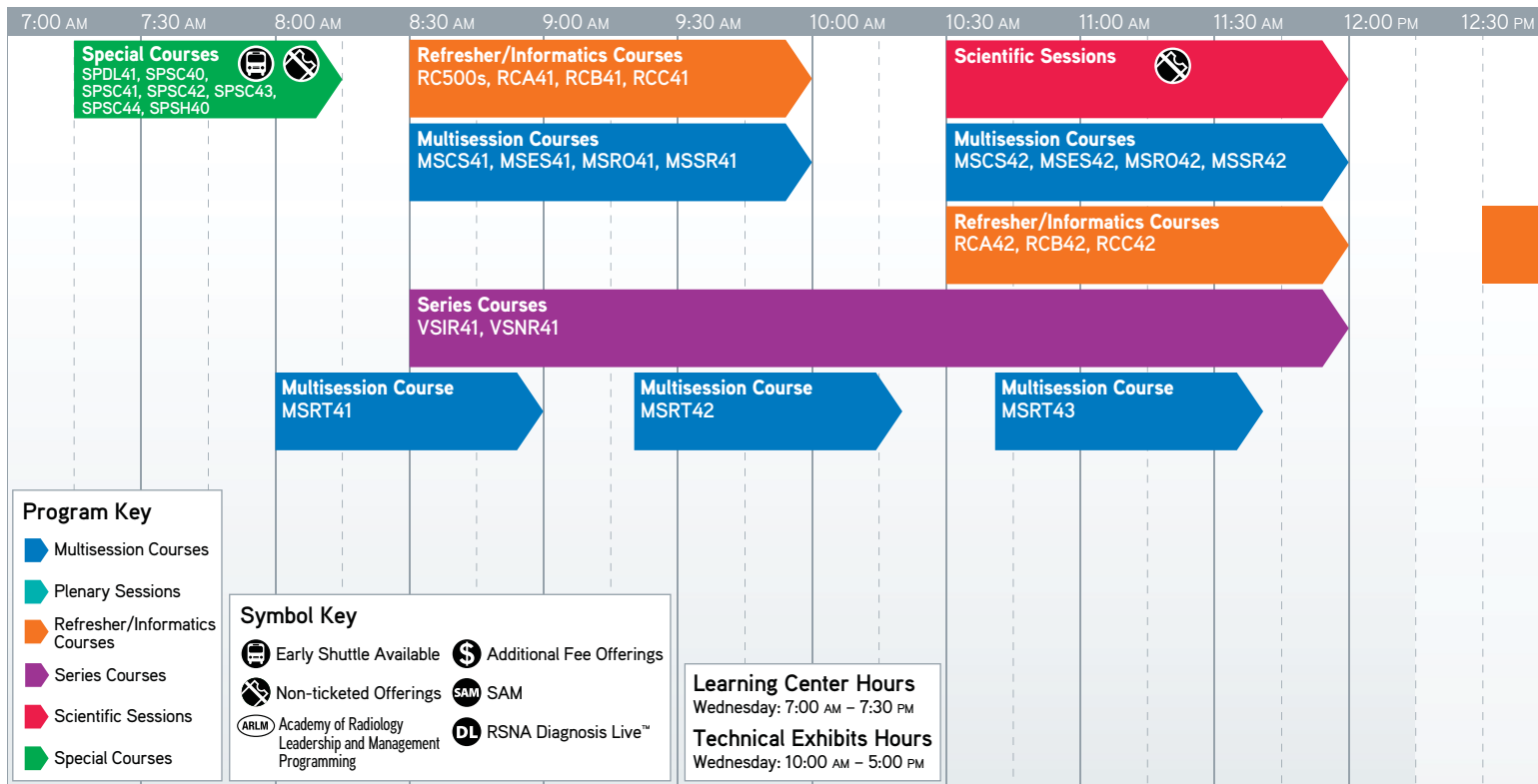
**RCB35** Hands-on Natural Language Processing: Extracting Value from Imaging Reports (Hands-on)

**RCC35** Technologies for Creating Educational Content and Teaching Files

4:45 PM – 6:00 PM

**MSR039** BOOST: Gynecology—Hands-on Contouring

# Wednesday, December 3



- 7:15 AM – 8:15 AM**
- SPDL41** RSNA Diagnosis Live™: Body, Cardiac, MSK, Neuro, Ent Po Pourée **DL** **ES**
  - SPSC40** Controversy Session: Breast Density Notification Legislation: Pros and Cons **ES** **ES**
  - SPSC41** Controversy Session: DTI in Head Injury: Crossing Borders, Clinical Applications, and Legal Ramifications **ES** **ES**
  - SPSC42** Controversy Session: Overreading Outside Examinations: Controversies, Benefits, and Pitfalls **ES** **ES**

- SPSC43** Controversy Session: Point-of-Care Ultrasound: Is there an Owner or Do We All Just Rent? **ES** **ES**
- SPSC44** Controversy Session: Vertebroplasty: Science or Séance? **ES** **ES**
- SPSH40** Hot Topic Session: Prostate Interventions—Fused US/MRI Guidance **ES** **ES**

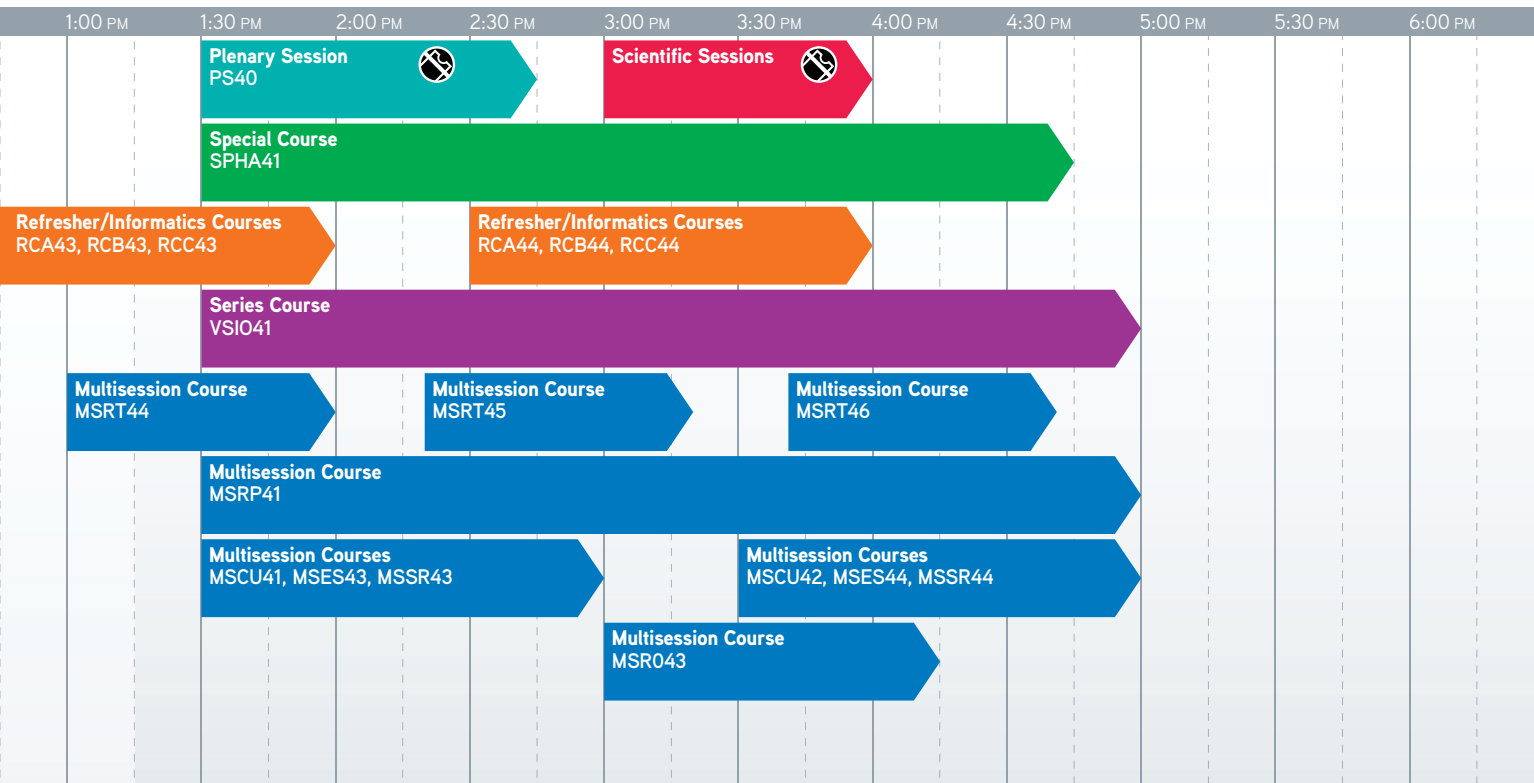
- 8:00 AM – 9:00 AM**
- MSRT41** ASRT@RSNA 2014: Innovation and Translational Research: How to Promote Each within Your Organization

- 8:30 AM – 10:00 AM**
- MSCS41** Case-based Review of Musculoskeletal Radiology (An Interactive Session)
  - MSES41** Essentials of Ultrasound
  - MSRO41** BOOST: CNS—Oncology Anatomy—MR and PET Imaging Brain Tumors: Practical Primer for the Radiologist and Radiation Oncologist (An Interactive Session)
  - MSSR41** RSNA/ESR Emergency Symposium: General Principles, Pediatric and ENT Emergencies (An Interactive Session)

## WEDNESDAY HIGHLIGHTS

- SPSC40 - 44, SPSH40:** Controversy/Hot Topic Sessions
- MSSR41:** RSNA/ESR Emergency Symposium: General Principles, Pediatric and ENT Emergencies (An Interactive Session)
- RC523:** Recording and Reporting Radiation Dose: Nuclear Medicine
- RC527:** The Affordable Care Act: What Does It Mean for Radiology and Radiologists?
- PS40:** Annual Oration in Radiation Oncology





- RC501** Waiting to Exhale: What's the Latest with Inhalation Lung Diseases? (An Interactive Session) **SAM**
- RC502** What's New from the American Board of Radiology
- RC503** Interactive Game: Read with the Experts (Cardiac Radiology) **DL SAM**
- RC504** Bone and Cartilage Injury: Traumatic and Stress-related Chondral, Osteochondral and Subchondral Failure with Emphasis on Pathophysiology and Routine and Advanced MR Imaging
- RC506** SCC of the Upper ADT: A Primer
- RC507** Advancements in Renal Tumor Treatment: What We Need to Know Before and After Therapy **SAM**
- RC508** Multimodality Imaging of the Acute Female Pelvis: US, CT and MRI (An Interactive Session)
- RC509** Gastrointestinal: Tumor Response Assessment (An Interactive Session) **SAM**
- RC510** Gynecologic Ultrasound: 2D and 3D
- RC511** Advances and Updates in SPECT/CT
- RC512** Imaging and Endografts
- RC513** Advanced Pediatric US Imaging **SAM**
- RC515** The New BI-RADS (An Interactive Session)
- RC516** AAWR/RSNA Instructional Session: Integration of Radiology and Radiation Oncology in Fighting Lung Cancer (In Conjunction with the American Association for Women Radiologists)
- RC517** Emerging Breast Imaging Strategies
- RC518** Imaging Cancer Treatment Complications
- RC520** Fundamentals of Imaging for the Radiation Oncologist
- RC521** Medical Physics 2.0: Nuclear Imaging
- RC522** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Imaging for Target Definition
- RC523** Minicourse: Recording and Reporting Radiation Dose: Nuclear Medicine
- RC524** Interactive Game: Mentored Case Approach to Pediatric Cardiovascular Disease 2: Cardiac **DL**
- RC525** Quantitative Imaging: Diffuse Lung Disease Assessment Using CT
- RC527** The Affordable Care Act: What Does it Mean for Radiology and Radiologists? **ARLM**
- RC529** Interactive Game: MR Imaging Innovations for the Oncological Practice: Case-based Instruction **DL**
- RC531** Small Parts Interventional Ultrasound (Hands-on Workshop)
- RC532** What Is Driving Health Care Reform and How it Is Changing Your Radiology Practice **ARLM**
- RC550** Targeted Treatment and Imaging of Liver Cancers: Basic to Advanced Techniques in Minimally-Invasive Therapies and Imaging (How-to Workshop)
- RC551** Imaging in Practice: DWI in the Abdomen and Pelvis (How-to Workshop)
- RC552** Dynamic Musculoskeletal US: Clicks and Clunks of the Upper Extremity (Hands-on Workshop)

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# Wednesday, December 3 [continued]

**RC553** Computer Aided Diagnosis (Development and Clinical Applications)

**RC554** The Future of Federal Health Information Technology Incentive Programs and Policies: Expert Panel

**RCA41** Radio-Genomic Research: Accessing Clinical Imaging-Genomics-Pathology Data from Public Archives—The Cancer Imaging Archive (Hands-on)

**RCB41** Hands-on Introduction to Social Media (Hands-on)

**RCC41** Next Generation IT to Improve Quality and Safety

8:30 AM – 12:00 PM

**VSIR41** Interventional Series: Non-Vascular Interventions

**VSNR41** Neuroradiology Series: Stroke

9:20 AM – 10:20 AM

**MSRT42** ASRT@RSNA 2014: Shoulder Imaging

10:30 AM – 12:00 PM

**Scientific Sessions**  (See pages 29-30)

**MSCS42** Case-based Review of Musculoskeletal Radiology (An Interactive Session)

**MSES42** Essentials of Pediatric Imaging

**MSRO42** BOOST: CNS—Integrated Science and Practice (ISP) Session

**MSSR42** RSNA/ESR Emergency Symposium: CNS Emergencies (An Interactive Session)

**RCA42** DtiStudio/MriStudio: Integrated Software Resource for White Matter Mapping and Quantitative Image Analysis (Hands-on)

**RCB42** Creating, Storing, and Sharing Teaching Files Using RSNA's MIRC® (Hands-on)

**RCC42** Standardized Terminology in Radiology: Applications and New Developments using RadLex and Playbook

10:40 AM – 11:40 AM

**MSRT43** ASRT@RSNA 2014: Expanding the Role of the Radiographer in the Quality Assurance Triangle

12:15 PM – 1:15 PM

Poster Discussions *AMA PRA Category 1 Credit™*

12:30 PM – 2:00 PM

**RCA43** National Library of Medicine: Save Searches, Get Updates: The Free PubMed My NCBI Tool (Hands-on)


**RCB43** Creating and Delivering Online and Mobile Education Content: From Online Courses to Interactive eBooks (Hands-on)

**RCC43** The RSNA Image Share Network—How It Operates and How to Put It into Your Office

1:00 PM – 2:00 PM

**MSRT44** ASRT@RSNA 2014: The Miracle of Breast MRI

1:30 PM – 2:45 PM

**PS40** Wednesday Plenary Session; Annual Oration in Radiation Oncology: “Error Bars” in Medical Imaging: Stealth and Treacherous 


1:30 PM – 3:00 PM

**MSCU41** Case-based Review of US (An Interactive Session)

**MSES43** Essentials of Neuro Imaging

**MSSR43** RSNA/ESR Emergency Symposium: Chest Emergencies (An Interactive Session)

1:30 PM – 4:45 PM

**SPHA41** Hospital Administrators Symposium 

1:30 PM – 5:00 PM

**MSRP41** RSNA Resident and Fellow Symposium (An Interactive Session)

1:30 PM – 5:00 PM

**VSIO41** Interventional Oncology Series: Mechanisms Matter: Basic Science Every IO Should Know

2:20 PM – 3:20 PM

**MSRT45** ASRT@RSNA 2014: Dual Energy Computed Tomography

2:30 PM – 4:00 PM


**RCA44** Structured Annotation and Image Markup (AIM) Template and Toolsets (Hands-on)

**RCB44** 3D Printing (Hands-on)

**RCC44** Workflow Tools to Optimize Departmental Operations

3:00 PM – 4:00 PM

**Scientific Sessions**  (See pages 29-30)

**MSRO43** BOOST: CNS Tumor Board—Case-based Review of MR Imaging and Treatment Management for the Radiologist and Radiation Oncologist (An Interactive Session) 

3:30 PM – 5:00 PM

**MSCU42** Case-based Review of US (An Interactive Session)

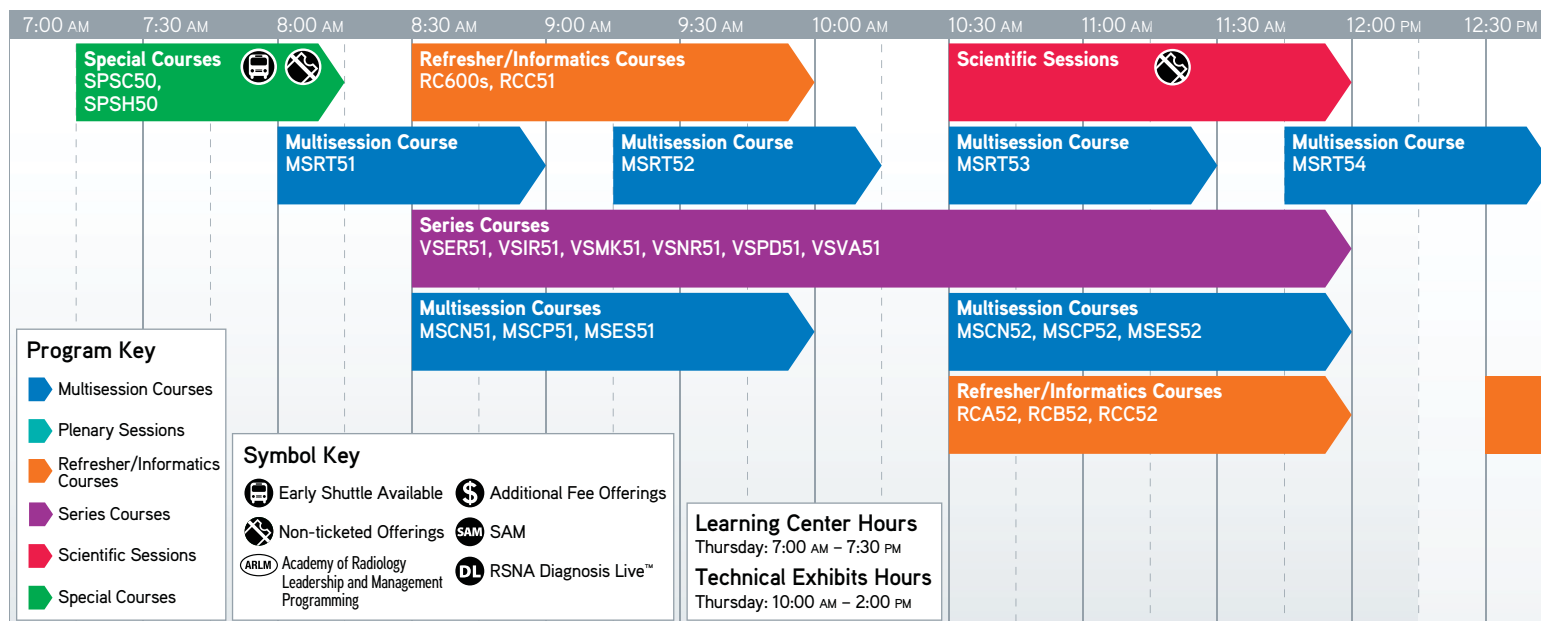
**MSES44** Essentials of Musculoskeletal Imaging

**MSSR44** RSNA/ESR Emergency Symposium: Abdominal Emergencies (An Interactive Session)





3:40 PM – 4:40 PM

**MSRT46** ASRT@RSNA 2014: Tuberous Sclerosis Complex (TSC) as It Relates to Diagnostic Imaging

# Thursday, December 4



## 7:15 AM – 8:15 AM









- SPSC50** Controversy Session: Predicting Outcome with Cardiac CT—Which Is Best?  
- SPSH50** Hot Topic Session: Advances in Prostate Cancer Imaging  

## 8:00 AM – 9:00 AM

- MSRT51** ASRT@RSNA 2014: Contrast Media—Adverse Reactions and Management

## 8:30 AM – 10:00 AM

- MSCN51** Case-based Review of Neuroradiology (An Interactive Session)
- MSCP51** Case-based Review of Pediatric Radiology (An Interactive Session)
- MSES51** Essentials of Genitourinary Imaging
- RC601** Chest Imaging: How Radiologic-Pathologic Correlation Informs Interpretation

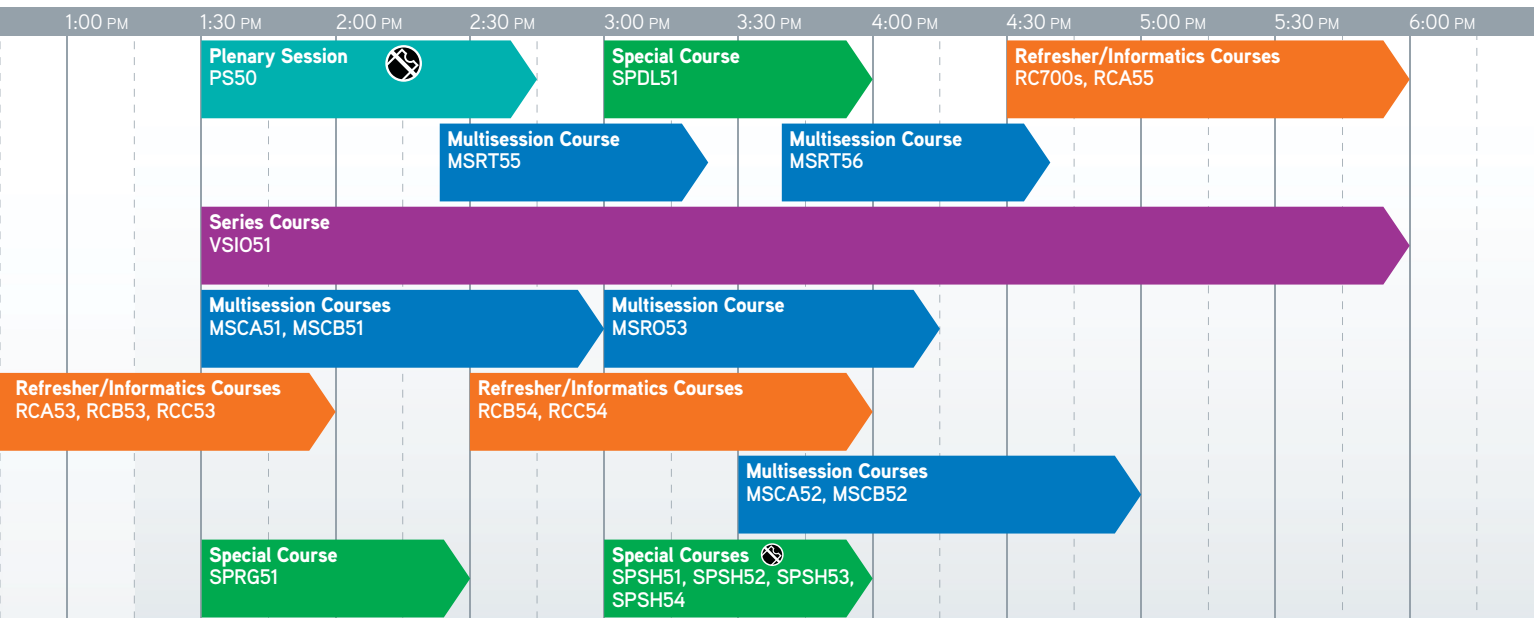
- RC602** Business Education in Academic Radiology: New Imperatives for the New World of Healthcare 
- RC603** Cardiac PET/CT and PET/MR 
- RC606** Glands of the Head and Neck
- RC607** Bladder, the Forgotten Organ: Role of CT, MRI, and PET in Diagnosis, Staging, and Surveillance of Cancer
- RC609** Gastrointestinal: CT Colonography Update (An Interactive Session) 
- RC610** Thyroid and Neck Ultrasound 
- RC611** Update on Radionuclide Therapies
- RC613** Interactive Game: Pediatric: Oncology  
- RC615** Breast US 
- RC616** Service Excellence in Radiology (Sponsored by the RSNA Professionalism Committee) (An Interactive Session) 

- RC617** MR-Guided High Intensity Frequency Ultrasound (HIFU)
- RC618** Pitfalls in Oncologic Imaging
- RC621** Medical Physics 2.0: Radiography
- RC622** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Incorporation of Imaging as a Biomarker in RT
- RC623** Minicourse: Current Topics in Medical Physics—Nuclear Cardiac Imaging for Physicists
- RC624** Reviewing Manuscripts for the RSNA Journals (Sponsored by the RSNA Publications Council)
- RC625** Quantitative Imaging: Functional MRI (fMRI)
- RC627** Changing Radiologist-Hospital Relationships 
- RC629** HCC Diagnosis Using LI-RADS (An Interactive Session)

## THURSDAY HIGHLIGHTS

- SPSC50, SPSH50:** Controversy/Hot Topic Sessions
- RCC51:** Practical Informatics for the Practicing Radiologist
- PS50:** RSNA/AAPM Symposium
- SPRG51:** *RadioGraphics*' Publication Information for Potential Authors
- SPDL51:** RSNA Diagnosis Live™: Musculoskeletal/Pediatric/Interventional Radiology





- RC631** Tumor Ablation beyond the Liver: Practical Techniques for Success (How-to Workshop)
- RC632** Value-Added Initiatives for a Healthcare System 
- RC650** Image-guided Biopsy of the Spine (Hands-on Workshop)
- RC652** Techniques for Interventional Sonography and Thermal Ablation (Hands-on Workshop)
- RC653** Current and Next Generation Health IT Tools to Enable Radiation Exposure Reduction—A Practical Guide
- RC654** Health IT Incentive Programs: Experience from Private Radiology Practices (An Interactive Session)
- RCC51** Practical Informatics for the Practicing Radiologist: Part One (In conjunction with the Society for Imaging Informatics in Medicine)

**8:30 AM – 12:00 PM**

- VSER51** Emergency Radiology Series: Contemporary and (Sometimes) Controversial Topics in Imaging of Trauma
- VSIR51** Interventional Series: Peripheral and Visceral Occlusive Disease
- VSMK51** Musculoskeletal Series: Knee Imaging
- VSNR51** Neuroradiology Series: Brain Tumors

- VSPD51** Pediatric Series: Minimizing Sedation in Pediatric MRI
- VSPA51** Vascular Imaging Series: CT Angiography—New Techniques and Their Application

**9:15 AM – 10:15 AM**

- MSRT52** ASRT@RSNA 2014: Stomach Esophageal Pathology

**10:30 AM – 11:30 AM**

- MSRT53** ASRT@RSNA 2014: Practice Standards and Ethical Considerations in Daily Practice

**10:30 AM – 12:00 PM**

- Scientific Sessions**  (See pages 29-30)
- MSCN52** Case-based Review of Neuroradiology (An Interactive Session)
- MSCP52** Case-based Review of Pediatric Radiology (An Interactive Session)
- MSES52** Essentials of Postoperative Gastrointestinal Imaging
- RCA52** National Library of Medicine: Free Online Databases: Images and More (Hands-on)
- RCB52** 3D Printing (Hands-on)
- RCC52** Practical Informatics for the Practicing Radiologist: Part Two (In conjunction with the Society for Imaging Informatics in Medicine)

**11:45 AM – 12:45 PM**

- MSRT54** ASRT@RSNA 2014: Advanced Radiographic Practice in Adult Chest Imaging


**12:15 PM – 1:15 PM**

Poster Discussions *AMA PRA Category 1 Credit™*

**12:30 PM – 2:00 PM**

- RCA53** Creating a 3D Printing Lab for Anatomical Modeling in Radiology
- RCB53** Creating, Storing, and Sharing Teaching Files Using RSNA's MIRC® (Hands-on)
- RCC53** Quantitative Imaging and Informatics (In Association with the Society for Imaging Informatics in Medicine)

**1:30 PM – 2:45 PM**

- PS50** Thursday Plenary Session: RSNA/AAPM Symposium: Radiomics: From Clinical Images to Omics 
- SPRG51** *RadioGraphics'* Publication Information for Potential Authors

**1:30 PM – 3:00 PM**

- MSCA51** Case-based Review of the Abdomen (An Interactive Session)
- MSCB51** Case-based Review of Breast (An Interactive Session)

# CME on the Go

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# Thursday, December 4 [continued]

1:30 PM – 6:00 PM

**VS1051** Interventional Oncology Series: Lung and Bone

2:30 PM – 4:00 PM

**RCB54** Productive Tools and Technology for the Academic Radiologist (Hands-on)

**RCC54** Natural Language Processing: Extracting Information from Radiology Reports to Improve Quality

3:00 PM – 4:00 PM

**SPDL51** RSNA Diagnosis Live™: Musculoskeletal/Pediatric/Interventional Radiology **DL**

**SPSH51** Hot Topic Session: Tendon Injections: Which One Works Best? **DL**

**SPSH52** Hot Topic Session: Lung Cancer Screening: Update on Policies and Procedures **DL**

**SPSH53** Hot Topic Session: Imaging of Oncologic Surveillance in the Era of Local Targeted Therapies **DL**

**SPSH54** Hot Topic Session: Imaging and Treatment of Neuroendocrine Tumors **DL**

3:30 PM – 5:00 PM

**MSCA52** Case-based Review of the Abdomen (An Interactive Session)

**MSCB52** Case-based Review of Breast (An Interactive Session)

4:30 PM – 6:00 PM

**RC701** Practical Issues in Chest Imaging (An Interactive Session) **SAM**

**RC702** Leadership: How Can We Teach It and Promote It? **ARLM**

**RC703** Cardiac Perfusion Imaging with MR & CT **SAM**

**RC704** Musculoskeletal Tumor Imaging

**RC705** Non-Traumatic Neuro Emergencies **SAM**

**RC706** How to Say it: Generating High Impact H&N Reports

**RC707** Quality and Safety 2014: Best Practices, Radiation, and Contrast Media

**RC708** Interactive Game: Extreme Imaging of the Extremities: Significant, Subtle, and Soft Tissue Injuries **DL SAM**

**RC709** Imaging Pancreaticobiliary Diseases (An Interactive Session)

**RC710** Ultrasound of Superficial Structures (An Interactive Session)

**RC711** Head and Neck Cancer PET Interpretation with Case Examples (An Interactive Session) **SAM**

**RC712** Non-Atherosclerotic Vascular Diseases (An Interactive Session)

**RC713** Pediatric: Neuro II

**RC714** Pain and Sedation in 2014

**RC715** Digital Breast Tomosynthesis

**RC716** Mitigation of Litigation (Sponsored by the RSNA Professionalism Committee) **ARLM**

**RC717** Quantitative CT and MR Perfusion Imaging

**RC718** Radiogenomics of Lung Cancer—Changing Landscape and Challenges

**RC721** Medical Physics 2.0: Mammography

**RC722** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Image Guidance in the Treatment Room

**RC723** Minicourse: Current Topics in Medical Physics—Radiation Dose Reduction in Medical Imaging

**RC724** The Ethical Power of Radiologic Technology: Reviewing the Past to Prepare for the Future (Sponsored by the RSNA Professionalism Committee) (An Interactive Session)

**RC725** Quantitative Imaging: Current and Future Practice in Radiology and Clinical Trials

**RC727** From Research to Reimbursement: Lung Cancer Screening and Healthcare Payment Policy (In Conjunction with the American College of Radiology) **ARLM**

**RC729** Abdominal MRA Update (An Interactive Session)

**RC731** US for Thyroid Cancer: Diagnosis, Surveillance, and Treatment (How-to Workshop)

**RC732** Compensation Plans and Funds Flow **ARLM**

**RC750** MR Imaging-guided Breast Biopsy (Hands-on Workshop)

**RC751** CT Dose Reduction: Diagnostic Information, Image Quality and CT Radiation Dose (How-to Workshop) (An Interactive Session)

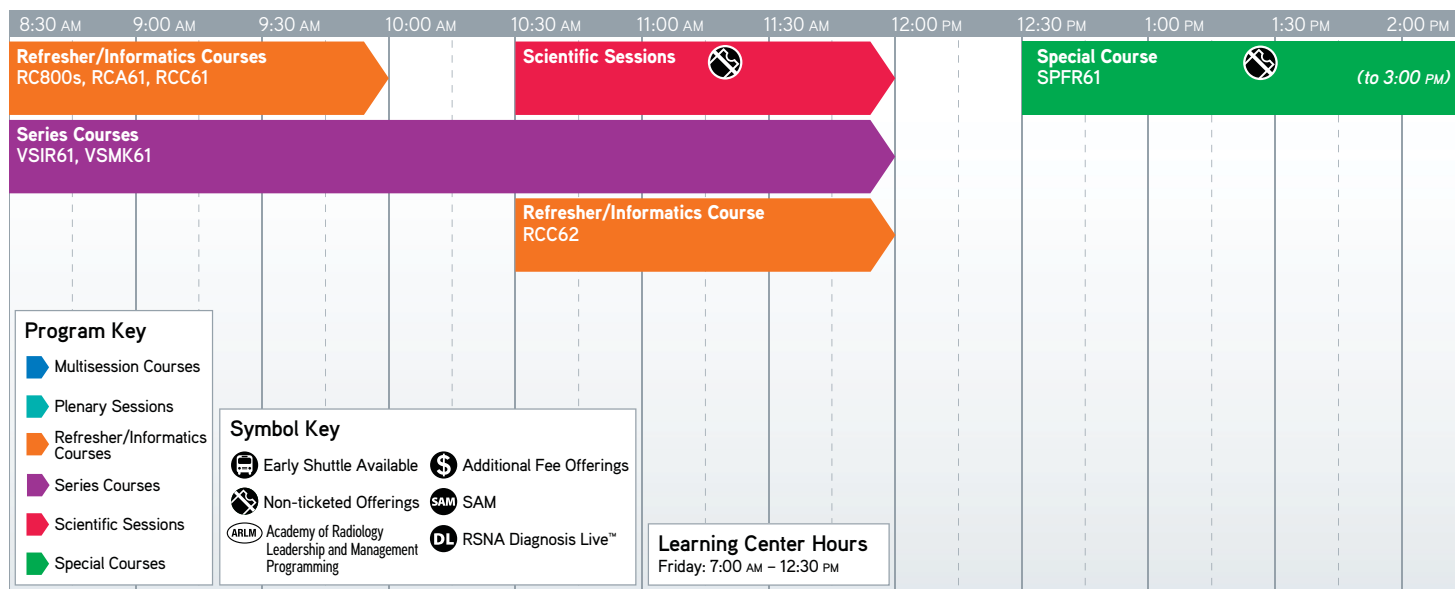
**RC752** US-guided Interventional Breast Procedures (Hands-on)

**RC753** Decoding the Alphabet Soup (IHE®, MIRC®, RadLex®, Reporting): Whirlwind Tour of RSNA Informatics Projects

**RC754** Health IT Incentive Programs: Implications for Radiology IT Vendors. What Your Customers will Demand and Your Competition will Provide

**RCA55** National Library of Medicine: Find Articles You Need: Searching PubMed/MEDLINE Efficiently (Hands-on)

# Friday, December 5



## 8:30 AM – 10:00 AM

- RC801** HRCT of Diffuse Lung Disease: Read Cases with the Experts (An Interactive Session) **SAM**
- RC802** International Educational Outreach—Challenges and Benefits
- RC803** Imaging Nonischemic and Ischemic Disease of the Myocardium
- RC805** Multiple Sclerosis **SAM**
- RC806** Head and Neck Emergency! **SAM**
- RC807** Interactive Game: A Case-based Audience Participation Session (Genitourinary) **DL**
- RC808** The Usual and Unusual Abdominal Emergencies **SAM**
- RC809** Pitfalls in Abdominal Imaging
- RC810** Vascular Doppler (An Interactive Session)
- RC811** Multi-modal Imaging Workup for Alzheimer's Disease, Parkinson's Disease, and Related Disorders: Case-based Approach
- RC812** Acute Abdominal Vascular Diseases
- RC813** Pediatric: CV/Chest
- RC815** Mammographic Interpretation **SAM**

- RC816** Tweet This: How to Make Radiology More Patient Centered (Sponsored by the RSNA Public Information Committee) **SAM**
- RC817** PET-MR/Hyperpolarized MR
- RC818** Interactive Game: Interactive Quiz Cases in Neuro-oncologic Imaging **DL**
- RC821** Medical Physics 2.0: Computed Tomography
- RC823** Minicourse: Current Topics in Medical Physics—Clinically Focused Physics Education: Principles to Practice
- RC824** Publishing in *Radiology*: What You Always Wanted to Know and Never Asked
- RC825** Quantitative Imaging: Dynamic Contrast Enhanced MRI (DCE-MRI)
- RC827** Value: What Is It, and What Does It Mean for Radiology?
- RC829** Should I Scan That Patient? A Very Interactive Session on MR Safety and Regulations (An Interactive Session)
- RC831** Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain (Hands-on Workshop)
- RC832** Aligning Incentives Along the Imaging Value Chain **ARLM**
- RC850** Fallopian Tube Catheterization (Hands-on Workshop)

- RC851** CT/PET in the Abdomen and Pelvis: How and When (How-to Workshop) (An Interactive Session)
- RC852** Real-time Interventional US (Hands-on Workshop)
- RC854** Health IT Tools to Improve Quality and Safety in Radiology (An Interactive Session) **ARLM**
- RCA61** National Library of Medicine: Save Searches, Get Updates: The Free PubMed My NCBI Tool (Hands-on)
- RCC61** Optimizing PowerPoint Slides

## 8:30 AM – 12:00 PM

- VSIR61** Interventional Series: Venous Disease
- VSMK61** Musculoskeletal Series Course: Shoulder Imaging

## 10:30 AM – 12:00 PM

- Scientific Sessions** (See pages 29-30)
- RCC62** Managing Radiology IT in the EHR World

## 12:30 PM – 3:00 PM

- SPFR61** Friday Imaging Symposium: A Guided Tour for Managing Incidental Findings: Adnexal, Thyroid, Pediatric, Adrenal and Chest

# Scientific Session Topics

 No tickets are required for Scientific Sessions.

Look for complete program online in September at [RSNA.org/MeetingProgram](http://RSNA.org/MeetingProgram)

## Sunday, November 30

10:45 AM – 12:15 PM

- Breast Imaging (Ultrasound Screening)
- Cardiac (Anatomy and Function)
- Cardiac (Cardiovascular Disease)
- Chest (Lung Cancer Screening)
- Emergency Radiology (Practice and Protocols)
- Gastrointestinal (Dual Energy CT)
- Gastrointestinal (Hepatocellular Carcinoma)
- Gastrointestinal (Rectal Cancer)
- Genitourinary (Evaluation of the Renal Mass)
- Genitourinary (Multiple Modalities for Imaging Pregnancy)
- Informatics (Education and Research)
- Molecular Imaging (GYN/Breast Cancer)
- Musculoskeletal Imaging (Soft Tissue Tumors)
- Musculoskeletal Imaging (Translational Imaging Techniques in Tendon and Muscle)
- Neuroradiology (Temporal Bones)
- Neuroradiology (The Aging Brain & Neurodegenerative Diseases)
- Neuroradiology (Vascular Disease of the Head & Neck)
- Nuclear Medicine (PET/CT for Oncology ISP)
- Physics (Magnetic Resonance Imaging I)
- Physics (Computed Tomography I)
- Physics (Nuclear Imaging, Other Topics)
- Radiation Oncology (Lung Cancer)
- Vascular/Interventional (IR: Advanced Vascular Imaging)
- Vascular/Interventional (IR: Biopsy/Drainage)

## Monday, December 1

10:30 AM – 12:00 PM

- BOOST - Lung Cancer: Integrated Science and Practice (ISP) Session
- BOOST - Gastrointestinal Cancer: Integrated Practice and Science (ISP) Session
- Cardiac (Coronary Artery Disease/Low Dose Techniques)
- Cardiac (Valve Disease)
- Chest (Lung Nodule)
- Gastrointestinal (Oncology: Surveillance and Response)
- Gastrointestinal (Pancreas Cancer)
- Health Service, Policy, and Research (Economic Analyses)
- Informatics (Enterprise Integration)
- Musculoskeletal Imaging (Advanced Cartilage Imaging)
- Neuroradiology (New Techniques in Brain Tumor Imaging)
- Neuroradiology (Traumatic Brain Injury)
- Physics (Computed Tomography II)
- Physics (Magnetic Resonance Imaging II)
- Radiation Oncology (Outcome and Quality of Life)
- Vascular/Interventional (IR: Hepatic Tumor Embolization)

3:00 PM – 4:00 PM

- Breast Imaging (Breast MRI Staging)
- Breast Imaging (Tomosynthesis Diagnostics)
- Cardiac (Acute Chest Pain)
- Cardiac (Cardiovascular Angiography)
- Chest (Radiation Dose Reduction)
- Emergency Radiology (Forensic Imaging)
- Gastrointestinal (Crohns Disease)
- Gastrointestinal (CT Technique and Contrast)
- Gastrointestinal (Liver Steatosis)

- Genitourinary (Benign Gynecologic Disease)
- Genitourinary (Intravenous Contrast Issues in Uroradiology.)
- Health Service, Policy and Research (Education)
- Informatics (Workflow and Displays)
- Musculoskeletal Imaging (Central, Plexus, Nerve and Disc Imaging)
- Musculoskeletal Imaging (Foot and Ankle)
- Neuroradiology (Advances in Intracranial CT and MR Angiography)
- Neuroradiology (Parkinson Disease)
- Neuroradiology (Stroke & Cerebrovascular Reserve)
- Nuclear Medicine (Neuroimaging)
- Pediatrics (Neuroimaging I)
- Physics (CAD I)
- Physics (Radiation Therapy I)
- Physics (Ultrasound I)
- Radiation Oncology (Head and Neck)
- Vascular/Interventional (IR: Topics of Interest/GU)

## Tuesday, December 2

10:30 AM – 12:00 PM


- BOOST- Gynecologic Cancer - Integrated Practice and Science (ISP) Session
- BOOST- Head and Neck Cancer - Integrated Practice and Science (ISP) Session
- Breast Imaging (Diagnostics and Treatment Monitoring)
- Cardiac (TAVR and Other Interventions)
- Gastrointestinal (CT Dose Reduction I)
- Genitourinary (Imaging of Renal Stones Using Dual Energy CT)
- Health Service, Policy and Research (Quality)
- Informatics (3D, Quantitative, and Advanced Visualization)
- Molecular Imaging (Inflammation/Arthritis)

- Musculoskeletal Imaging (Muscle to Tendon - Sports and Clinical Practice)
- Neuroradiology (Cognitive & Psychiatric Disorders)
- Neuroradiology (Imaging of White Matter & Demyelinating Disease)
- Neuroradiology (Thyroid & Parathyroid Imaging)
- Physics (Computed Tomography III)
- Physics (Radiation Exposures, Doses I)
- Physics (X-ray Imaging I)
- Radiation Oncology (Central Nervous System)

3:00 PM – 4:00 PM

- Breast Imaging (CT/Contrast)
- Breast Imaging (Quantitative Imaging)
- Cardiac (Congenital Heart Disease)
- Cardiac (Research/Population Studies)
- Chest (Interventional)
- Chest (Emergencies)
- Gastrointestinal (Liver Masses)
- Gastrointestinal (Pancreas Focal Lesions)
- Gastrointestinal (Small Bowel Imaging)
- Genitourinary (Male Pelvis with Lymph Node Characterization)
- Genitourinary (MR and CT of the Urothelium)
- Health Service, Policy and Research (Evidence-based Radiology)
- Informatics (Business Analytics)
- Molecular Imaging (GI/Liver)
- Musculoskeletal Imaging (Hip and Pelvis Evaluation)
- Musculoskeletal (Clinical Imaging Metabolic Disease and Osteoporosis)
- Neuroradiology (ENT Oncology)
- Neuroradiology (Epilepsy)
- Neuroradiology (Neurointerventional Radiology)

# Scientific Session Topics [continued]

 No tickets are required for Scientific Sessions.

- Nuclear Medicine (SPECT/CT and Inflammation Imaging)
- Physics (CAD II)
- Physics (Radiation Therapy II)
- Physics (Ultrasound II)
- Radiation Oncology (Genitourinary Cancer)
- Vascular/Interventional (IR: Aortic Imaging and Intervention)
- Vascular/Interventional (IR: Venous Disease and Intervention)

## Wednesday, December 3

10:30 AM – 12:00 PM

- BOOST: CNS Tumors - Integrated Practice and Science (ISP) Session
- Breast Imaging (Pathology Management)
- Breast Imaging (Tomosynthesis Screening)
- Cardiac (Coronary Artery Disease)
- Cardiac (Myocardial Viability and Ischemia)
- Chest (Emphysema/Airway)
- Gastrointestinal (CT Colonography)
- Gastrointestinal (Liver Fibrosis)
- Gastrointestinal (Pancreas Benign Disease)
- Genitourinary (Novel MR Techniques for Imaging Gynecologic Malignancies)
- Genitourinary (Prostate Staging and Follow-up Using MRI)
- Health Service, Policy, and Research (Other)
- Informatics (Quality and Safety)
- Molecular Imaging (Neurosciences)
- Musculoskeletal Imaging (Infection and Arthritis)
- Musculoskeletal (Interventional)
- Neuroradiology (Advanced Neuroimaging of Alzheimer's Disease)
- Neuroradiology (Head & Neck Tumors)
- Nuclear Medicine (PET/MRI for Oncology)
- Pediatrics (Oncology and Nuclear Medicine)
- Physics (Radiation Exposures, Doses II)
- Physics (Radiation Therapy III)
- Physics (Tomographic Image Reconstruction)
- Radiation Oncology (Breast)
- Vascular/Interventional (IR: Liver Ablation)
- Vascular/Interventional (IR: MR Angiography)

3:00 PM – 4:00 PM

- Breast Imaging (Biopsy Techniques)
- Breast Imaging (Ultrasound Diagnostics)
- Cardiac (Outcomes and Risk Stratification)
- Cardiac (Pulmonary Artery Disease)
- Chest (New Session)
- Chest (Thoracic Malignancy)
- Gastrointestinal (CT Dose Reduction II)
- Gastrointestinal (Esophagus Imaging)
- Gastrointestinal (Loco-regional Therapy Liver Imaging)
- Genitourinary (Adrenal Masses)
- Health Service, Policy and Research (Guidelines/Outcomes)
- Informatics (Image Sharing)
- Molecular Imaging (New Tracers, Contrast Agents, Cell Labeling Methods)
- Musculoskeletal Imaging (Utilization, Dose Reduction and Technical Considerations)
- Neuroradiology (Cerebral Ischemia, Hemorrhage & Vessel Wall Imaging)
- Neuroradiology (Neuro-Oncology)
- Neuroradiology (Resting State Functional Brain Imaging)
- Nuclear Medicine (Gastrointestinal and Endocrine)
- Pediatrics (General Pediatrics)
- Physics (Image Processing, Analysis I)
- Physics (X-ray Imaging II)

- Radiation Oncology (Radiation Biology)
- Vascular/Interventional (IR: CTA)
- Vascular/Interventional (IR: Radiation Safety)

## Thursday, December 4

10:30 AM – 12:00 PM

- Breast Imaging (Breast Density and Risk Assessment)
- Cardiac (Dual Energy CT)
- Chest (Diffuse Lung Disease)
- Chest (Miscellaneous)
- Gastrointestinal (Large Bowel and Appendiceal Imaging)
- Gastrointestinal (MR Technique)
- Gastrointestinal (Oncology: Staging and Response)
- Genitourinary (Functional and Vascular Imaging of the Kidneys)
- Genitourinary (Intervention in the GU Tract)
- Informatics (Results and Reporting)
- Molecular Imaging (Prostate Cancer/Bone Metastases)
- Musculoskeletal (Advanced Imaging Bone Structure and Tumor Characterization)
- Neuroradiology (Quantitative Neuroimaging)
- Nuclear Medicine (Cardiovascular Imaging ISP)
- Pediatrics (Chest)
- Physics (Image Processing, Analysis II)
- Physics (Radiation Exposures, Doses III)
- Vascular/Interventional (IR: Non-hepatic tumor ablation)

## Friday, December 5

10:30 AM – 12:00 PM

- Breast Imaging (Multi-Modality Imaging)
- Cardiac (Non-Ischemic Cardiomyopathy)
- Cardiac (Quantitative Cardiac Imaging)
- Chest (DE:Spectral CT/ Vascular)
- Gastrointestinal (Gallbladder and Biliary Imaging)

- Gastrointestinal (Stomach Cancer and Masses)
- Genitourinary (New Technology for Imaging the GU Tract)
- Neuroradiology (Advances in Neuro CT Imaging)
- Neuroradiology (Cerebrovascular Imaging)
- Neuroradiology (New Techniques in Head & Neck Imaging)
- Nuclear Medicine (Comparative Technologies and Modalities)
- Pediatrics (Neuroimaging II)
- Physics (Image Processing, Analysis III)
- Physics (Radiation Exposures, Doses IV)
- Vascular/Interventional (IR: GI and Hepatobiliary Interventions)
- Vascular/Interventional (IR: Gynecologic/Female Interventions)



# Course Enrollment Form

▶ ENROLL FOR COURSES ONLINE AT [RSNA.ORG/REGISTER](http://RSNA.ORG/REGISTER)

## Registration Deadlines

**October 24:** Deadline for international full conference badge mailing.  
**November 7:** Deadline for housing, discounted registration, and domestic full conference badge mailing.

## Important

You must be a full conference registrant to register for courses. Add courses to your existing registration via online, fax, or mail. Requests are not accepted by telephone.

Registrant ID \_\_\_\_\_

Last Name / Family Name \_\_\_\_\_

Email Address \_\_\_\_\_

First Name \_\_\_\_\_ Degree(s) \_\_\_\_\_

## Ticketed Courses

### ASRT@RSNA 2014

- WEDNESDAY  
 MSRT41  MSRT42  MSRT43  
 MSRT44  MSRT45  MSRT46
- THURSDAY  
 MSRT51  MSRT52  MSRT53  
 MSRT54

### Associated Sciences

- MONDAY  
 MSAS21  MSAS22  MSAS23  
 MSAS24
- TUESDAY  
 MSAS31  MSAS32  MSAS33  
 MSAS34

### Bolstering Oncoradiologic and Oncoradiotherapeutic Skills for Tomorrow (BOOST) Program

- MONDAY  
 MSRO21  MSRO22  MSRO23  
 MSRO24  MSRO25  MSRO26  
 MSRO29
- TUESDAY  
 MSRO31  MSRO32  MSRO33  
 MSRO34  MSRO35  MSRO36  
 MSRO39

### Cardiac CT Mentored Case Review

- MONDAY  
 MSMC21  MSMC22  MSMC23  
 MSMC24

### Case-based Review of the Abdomen

- THURSDAY  
 MSCA51  MSCA52

### Case-based Review of Breast

- THURSDAY  
 MSCB51  MSCB52

### Case-based Review of Magnetic Resonance

- MONDAY  
 MSCM21  MSCM22

### Case-based Review Musculoskeletal

- WEDNESDAY  
 MSCS41  MSCS42

### Case-based Review: Neuroradiology

- THURSDAY  
 MSCN51  MSCN52

### Case-based Review of Nuclear Medicine

- TUESDAY  
 MSCC31  MSCC32  MSCC33  
 MSCC34

### Case-based Review of Pediatric Radiology

- THURSDAY  
 MSCP51  MSCP52  MSCP53  
 MSCP54

### Case-based Review of Thoracic Radiology

- MONDAY  
 MSCT21  MSCT22

### Case-based Review of Ultrasound

- WEDNESDAY  
 MSCU41  MSCU42

### CIR@RSNA

- SATURDAY  
 SPSP01

### Country Presents Canada

- TUESDAY  
 SPCP31

### Country Presents Korea

- MONDAY  
 SPCP21

### Essentials of Radiology

- TUESDAY  
 MSES31  MSES32  MSES33  
 MSES34

- WEDNESDAY  
 MSES41  MSES42  MSES43  
 MSES44

- THURSDAY  
 MSES51  MSES52

### Estate Planning

- MONDAY  
 SPEP21

### Hospital Administrators Symposium

- WEDNESDAY  
 SPHA41

### Mock Jury Trial

- SUNDAY  
 SPMT11

### Molecular Imaging Symposium

- MONDAY  
 MSMI21  MSMI22  MSMI23  
 MSMI24

### Quality Improvement Symposium

- TUESDAY  
 MSQI31  MSQI32  MSQI33

### RadioGraphics' Publications

- THURSDAY  
 SPRG51

### Resident/Fellow Symposium

- WEDNESDAY  
 MSRP41

### RSNA Diagnosis Live™:

- MONDAY  SPDL21 TUESDAY  SPDL31 WEDNESDAY  SPDL41

- THURSDAY  SPDL51

### RSNA/ESR: Emergency Symposium

- WEDNESDAY  
 MSSR41  MSSR42  
 MSSR43  MSSR44

### Series Courses

- Breast Series**  
 MONDAY  VSBR21 TUESDAY  VSBR31

### Cardiac Series

- MONDAY  
 VSCA21

### Chest Series

- TUESDAY  
 VSCH31

### Emergency Radiology Series

- MONDAY  VSER21 THURSDAY  VSER51

### Gastrointestinal Series

- MONDAY  VSGI21 TUESDAY  VSGI31

### Genitourinary Series

- MONDAY  
 VSGU21

### Interventional Oncology Series

- SUNDAY  VSIO11 MONDAY  VSIO21 TUESDAY  VSIO31  
 WEDNESDAY  VSIO41 THURSDAY  VSIO51

### Interventional Radiology Series

- MONDAY  VSIR21 TUESDAY  VSIR31 WEDNESDAY  VSIR41  
 THURSDAY  VSIR51 FRIDAY  VSIR61

### Musculoskeletal Radiology Series

- MONDAY  VSMK21 TUESDAY  VSMK31 THURSDAY  VSMK51  
 FRIDAY  
 VSMK61

### Neuroradiology Series

- MONDAY  VSNR21 WEDNESDAY  VSNR41 THURSDAY  VSNR51

### Nuclear Medicine Series

- MONDAY  VSNM21 TUESDAY  VSNM31

### Pediatric Radiology Series

- SUNDAY  VSPD11 TUESDAY  VSPD12 THURSDAY  VSPD21

### Radiology Informatics Series

- MONDAY  
 VSIN21

### Vascular Imaging Series

- TUESDAY  VSVI31 THURSDAY  VSVI51

## Additional Fee Required (See page 8)

NIH Grantsmanship Workshop and Study Section Reviewers Workshop require payment. Enroll online at [RSNA.org/Register](http://RSNA.org/Register).

**SAM** Select RSNA courses are offered as SAMs. These SAM courses satisfy the ABR Part II MOC requirements and the MOC program of the Royal College of Physicians and Surgeons in Canada. Advance registration at [RSNA.org/Register](http://RSNA.org/Register) is required for SAMs. **Fee: RSNA members—\$0. Non-members—\$50 per SAM.**

## Refresher Courses

(Each course 1.50 AMA PRA Category 1 Credits™) (See pages 9 – 28)

	1st Choice	2nd Choice
Sunday, November 30, 2:00 PM	RC <u>1</u> _____	<u>1</u> _____
Monday, December 1, 8:30 AM	RC <u>2</u> _____	<u>2</u> _____
Tuesday, December 2, 8:30 AM	RC <u>3</u> _____	<u>3</u> _____
Tuesday, December 2, 4:30 PM	RC <u>4</u> _____	<u>4</u> _____
Wednesday, December 3, 8:30 AM	RC <u>5</u> _____	<u>5</u> _____
Thursday, December 4, 8:30 AM	RC <u>6</u> _____	<u>6</u> _____
Thursday, December 4, 4:30 PM	RC <u>7</u> _____	<u>7</u> _____
Friday, December 5, 8:30 AM	RC <u>8</u> _____	<u>8</u> _____

## Informatics Courses

(In special dedicated classrooms) (Each course 1.50 AMA PRA Category 1 Credits™) (See pages 9 – 28). Indicate all your course choices for each day.

	1st Choice	2nd Choice	3rd Choice	4th Choice	5th Choice
Sunday	RC _____	_____	_____	_____	_____
Monday	RC _____	_____	_____	_____	_____
Tuesday	RC _____	_____	_____	_____	_____
Wednesday	RC _____	_____	_____	_____	_____
Thursday	RC _____	_____	_____	_____	_____
Friday	RC _____	_____	_____	_____	_____

Online  
[RSNA.org/Register](http://RSNA.org/Register)

Fax  
 1-888-772-1888  
 1-301-694-5124  
 (Outside U.S. & Canada)

Telephone  
 1-800-650-7018  
 1-847-996-5862  
 (Outside U.S. & Canada)

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Email questions to:  
[rsna@experient-inc.com](mailto:rsna@experient-inc.com)

