RSNA 2019 Program Dedicated to Eyler

RSNA’s 105th Scientific Assembly and Annual Meeting is dedicated to the memory of Dr. William R. Eyler, who died Dec. 5, 2018, after celebrating his 100th birthday earlier in the year.

Dr. Eyler was instrumental in establishing Radiology as a preeminent scientific journal. He served as assistant editor from 1962 to 1966, then as editor until 1985. During his tenure, Dr. Eyler improved the efficiency of the editorial operation and the quality of the journal, doubling the circulation.

As editor, Dr. Eyler developed the RSNA Index to Imaging Literature, providing radiologists with a comprehensive library of studies and images long before the internet provided ready access. RSNA rewarded his accomplishments in 2004 with a resolution honoring him at the RSNA annual meeting.

In 1998, RSNA commemorated his contributions by establishing the William R. Eyler Editorial Fellowship, which provides an opportunity for radiologists to work with RSNA journal editors and publications staff. Dr. Eyler was a strong advocate for young radiologists, giving his time and talent to prepare future generations of residents during his 65 years of teaching.

An esteemed radiologist, Dr. Eyler served as chair of the Department of Radiology at Henry Ford Hospital for nearly three decades. Before joining Henry Ford, he was a faculty member at the University of Illinois and Massachusetts General Hospital.

Dr. Eyler earned his medical degree at Harvard Medical School. He served during WWII in the Army Medical Corps with the 115th General Hospital in England and France and in occupied Germany after the war. When he returned home, he completed his residency at Massachusetts General Hospital.

Dr. Eyler received the RSNA Gold Medal in 1976. He also received gold medals from the American Roentgen Ray Society and the American College of Radiology.

RSNA President Valerie P. Jackson, MD

RSNA President Valerie P. Jackson, MD, will open RSNA 2019 with her President’s Address, "A Matter of Perspective: Putting a New Lens on Our Patient Interactions." She will speak about the importance of human interactions between physicians and patients and how technologic innovation in medicine makes that connection more relevant today than ever. The key, she says, is in changing our perspectives and approaches — toward patients, referring physicians and our own profession — and reimagining new ways of working together.

Daily Bulletin: What do you see as the greatest challenges facing radiologists today?
Valerie P. Jackson, MD: Radiologists continue to be challenged by the pressure of large caseloads and quick turnaround times. This makes it seem difficult to fully commit to patient-centered practice. The caseloads aren’t going to disappear, so we need to widen our perspective to focus on the benefits of communicating with patients and forging stronger alliances with referring physicians.

DB: How can a shift in perspective toward patients help radiologists facing ever-growing caseloads?
VPJ: Patients are playing a more interactive role in their medical care, and recent studies have shown that patients want more contact with their radiologists. While the transition to patient-centered care has been easier for some than others, the paradigm shift offers several advantages.

We know that diagnostic radiologists who are more patient-centered are less vulnerable to burnout and are more likely to be recognized as trusted, integral members of their patients’ health care team.

DB: In what ways can technologic innovation in medical imaging help radiologists add value?
VPJ: A number of changes in radiology practice and the overall health care environment have made patient interaction a critical and timely component of radiologic care. The emergence of artificial intelligence applications that can be trained to handle a variety of time-consuming tasks, for instance, has the potential to free radiologists to devote more time to patient interaction. It’s an exciting time in the specialty.

DB: What role do referring physicians play in this shift?
VPJ: We’ve spent a great deal of time asking ourselves what our patients want. We need to be equally dedicated when it comes to building relationships with referring physicians. We must take the time to engage their trust and open the lines of communication to determine how best to serve the interests of our patients together and ensure radiologists are vital members of the health care team.

DB: What are you most looking forward to at RSNA 2019?
VPJ: During my time on the Board, RSNA has emerged as a leader in artificial intelligence research and education with a host of initiatives that help radiologists understand how data and deep learning applications can be used to improve patient care. I am looking forward to visiting the expanded AI Showcase as well as the redesigned RSNA Deep Learning Lab and the new hands-on workshops. I also look forward to learning from my colleagues through the innovative research across the specialty that will be presented throughout the week.

Welcome to RSNA 2019

It is my pleasure to welcome you to RSNA 2019, a place where we can gather and “See Possibilities Together.”

This year’s program includes the innovative science and high-quality education you expect from RSNA. The Board and dedicated volunteers developed a program that will leave you renewed and inspired to improve patient care. Special Interest Sessions on Monday will delve into diverse topics including new MR techniques and the role of neuroimaging in the diagnosis and treatment of depression. Delegates from India and Egypt developed the Country Presents series, which celebrates each country’s contributions to our field.

Don’t miss the plenary session speakers whose forward-thinking presentations will inspire you to see possibilities in every aspect of health care, from strengthening commitment to our patients to collaborating across disciplines to solve today’s most pressing medical problems.

The popular Fast 5 Session on Tuesday afternoon features five speakers taking five minutes each to present creative ideas and emerging possibilities.

Recognizing a need to access the program beyond the meeting in Chicago, RSNA continues to expand the Virtual Meeting. With more than 400 courses available virtually, you can access more content than ever through April 2020.

A highlight of every annual meeting, the RSNA Technical Exhibits provide a unique setting for networking while discovering the latest products and services. The AI Showcase and Theater — in an expanded location — and the 3D Printing and Advanced Visualization Showcase and Theater highlight the latest technological advances. Also new this year are the Innovation Theater, where you can be the first to hear about new products and emerging technologies. RSNA dedicated volunteers developed a program beyond the meeting in Chicago, providing radiologists with a comprehensive index to imaging literature, providing radiologists with a comprehensive library of studies and images long before the internet provided ready access. RSNA rewarded his accomplishments in 2004 with a resolution honoring him at the RSNA annual meeting.

In 1998, RSNA commemorated his contributions by establishing the William R. Eyler Editorial Fellowship, which provides an opportunity for radiologists to work with RSNA journal editors and publications staff. Dr. Eyler was a strong advocate for young radiologists, giving his time and talent to prepare future generations of residents during his 65 years of teaching.

An esteemed radiologist, Dr. Eyler served as chair of the Department of Radiology at Henry Ford Hospital for nearly three decades. Before joining Henry Ford, he was a faculty member at the University of Illinois and Massachusetts General Hospital.

Dr. Eyler earned his medical degree at Harvard Medical School. He served during WWII in the Army Medical Corps with the 115th General Hospital in England and France and in occupied Germany after the war. When he returned home, he completed his residency at Massachusetts General Hospital.

Dr. Eyler received the RSNA Gold Medal in 1976. He also received gold medals from the American Roentgen Ray Society and the American College of Radiology.
GREAT RESEARCH NEEDS A GREAT AUDIENCE.

Be a Presenter at RSNA 2020!

We’re looking for radiology thought leaders to provide:
Scientific Presentations / Applied Science / Education Exhibits / Quality Improvement Reports

EARN RECOGNITION

Kuo York Chynn Neuroradiology Research Award: $3,000
The top scientific paper as selected by the Scientific Program Committee will earn this prestigious award.

The RSNA Trainee Research Prize: $1,000
Up to 48 medical students, residents or fellows who submit expanded abstracts of their 2020 RSNA scientific presentation may receive a $1,000 prize and certificate.

VISIT RSNA.ORG/ABSTRACTS FOR COMPLETE GUIDELINES

Submit Online
beginning January 2020 at RSNA.org/Abstracts
through Wednesday, April 8, 2020 noon CT.

Questions?
Call 1-877-776-2227 (within U.S.) or 1-630-590-7774 (outside U.S.)
Includes courses in joint sponsorship with the American Association of Physicists in Medicine.

Includes courses in joint sponsorship with the American Association of Physicists in Medicine.
Sunday At a Glance

President’s Address
Valerie P. Jackson, MD
8:30-10:15 a.m.
Arie Crown Theater
A Matter of Perspective: Putting a New Lens on Our Patient Interactions
It is in our best interests as radiologists to forge new, more beneficial relationships with those we serve, Dr. Jackson says. The key to progress is in changing our perspectives and approaches — toward patients, referring physicians and our own profession — and reimagining new ways of working together.

Opening Session
Abraham Verghese, MD
8:30-10:15 a.m.
Arie Crown Theater
Finding the Caring in Care
Dr. Verghese is a New York Times bestselling author whose focus on the human relationship between doctor and patient has earned worldwide recognition. He will discuss how physicians can find meaning in their roles in a professional environment that is rapidly becoming more inundated with technology.

RSNA Outstanding Educator and Outstanding Researcher Awards Presented Today

RSNA Business Session
(Arie Crown Theater)
10:30 a.m. – Noon
Innovation Theater Presentations
(South Hall, Level 3)
10:30 a.m. – 2:20 p.m.
RSNA AI Theater Presentations
(AI Showcase, North Building, Level 2)
10:45 a.m. – 12:15 p.m.
Scientific Paper Sessions
12:30 p.m. – 1:30 p.m.
Scientific Poster, Quality Improvement Reports and Education Exhibit Presentations
(Learning Center)
1:30 p.m. – 3 p.m.
Interventional Oncology Series:
Interventional Therapies for Primary and Metastatic Lung Tumors
(Room S405AB)

Educational Courses
2 p.m. – 3:30 p.m.
Innovation Theater Presentations
(South Hall, Level 3)
3 p.m. – 4 p.m.
First-Time Attendee Orientation
(Discovery Theater)
4 p.m. – 5:45 p.m.
Plenary Session (Arie Crown Theater)
Report of the RSNA Research & Education Foundation
Thomas M. Grist, MD
Image Interpretation Session
2 p.m. – 4 p.m.

View the full program and add sessions to My Agenda on the RSNA 2019 App or at Meeting.RSNA.org.
Welcome to RSNA 2019 from the RSNA Board of Directors

RSNA Board members (left to right): Bruce G. Haffty, MD, liaison for science, Curtis P. Langlotz, MD, PhD, liaison for information technology and annual meeting, Jeffrey S. Klein, MD, liaison for publications and communications, Valerie P. Jackson, MD, president, James P. Borgstede, MD, president-elect and secretary-treasurer, Mary C. Mahoney, MD, chair, Umar Mahmood, MD, PhD, liaison for international affairs, Matthew A. Maure, MD, liaison for education.

OFFICE OF THE GOVERNOR

J.B. PERSHING
GOVERNOR

Greetings!

I am pleased to welcome everyone gathered for the Radiological Society of North America’s 105th Scientific Assembly and Annual Meeting “See Possibilities Together.”

Since its founding, the Radiological Society of North America has provided avenues for the world’s leading medical professionals—radiologists, radiologic technologists, and radiation oncologists—the opportunity to gather for an annual assembly to discuss and present on the future of radiology. The work you do makes a profound impact on our citizens, and I’m thrilled the Radiological Society of North America’s annual forum continues to be a cornerstone event in Chicago. I commend you all for your extraordinary dedication to public service.

I also would like to extend a warm welcome to everyone traveling from outside Illinois for RSNA 2019. During your stay, I encourage you to explore and discover everything our great state has to offer. From historic landmarks, to world-renowned museums, and first-class dining and theater experiences, there are truly a wide array of interests represented across Illinois.

On behalf of the citizens of Illinois, I offer my best wishes for an enjoyable and memorable event.

Sincerely,

[Signature]

OFFICE OF THE MAYOR

LORI E. LIGHTFOOT
MAYOR

December 1, 2019

Dear Friends,

On behalf of the City of Chicago, I am honored to welcome all those gathered for the Radiological Society of North America’s 105th Scientific Assembly and Annual Meeting.

The Radiological Society of North America (RSNA) is a non-profit organization dedicated to providing educational resources and support to more than 50,000 members from 126 countries. Themed “See Possibilities Together,” this year’s meeting will bring together more than 50,000 industry professionals to network, learn and inspire. With a full schedule of plenary sessions, technical exhibits, workshops, and the AI Showcase, attendees will gain the tools and resources needed to foster excellence in health care through education, research and technological innovation. I commend RSNA for their ongoing efforts to move the industry forward.

I hope that during your stay in Chicago you take the time to see all the City has to offer. Vibrant neighborhoods, an iconic skyline, and an incredible lakeshore invite you to explore Chicago. Explore our downtown and lakefront areas, tour the vibrant neighborhoods across our city, sample our diverse cuisines, visit our distinguished universities, and our world-class museums during your stay.

I hope your event is memorable and enjoyable. Best wishes for continued success.

Sincerely,

[Signature]

Mayor
Together, we are
SEEDING THE FUTURE
OF RADIOLOGY

For every $1 granted by the R&E Foundation, 50 additional dollars in subsequent funding are awarded from other sources like the NIH.

We are responsible for the growth of radiology research and education. And we are growing strong.

Help seed the future of medical imaging.
Make a donation today.

RSNA.org/Foundation
Yet activities like these are key to achieving a healthy well-being, which helps diffuse the stress and burnout experienced by so many radiologists. In a 2019 Accreditation Council for Graduate Medical Education (ACGME) survey, almost half of radiologists said they have suffered burnout, citing workload as the primary source. But radiologists who are laser-focused on their patients need to recognize that self-care is directly linked to patient care, according to experts. To that end, RSNA 2019 offers a number of sessions devoted to promoting wellness at the individual and institutional level. (See sidebar.)

“We don’t talk to each other like we used to,” said session presenter Claire E. Bender, MD, a radiologist at the Mayo Clinic in Rochester, MN. “That isolation has been detrimental to the profession.”

Dr. Bender is on the panel of the Controversy Session: Radiologist Burnout: How Should We Help Mitigate? As a radiologist who started her career in the 1980s, Dr. Bender said that outside forces like regulations and reimbursement cuts have sapped some of the joy from the profession, and that creating opportunities for interaction within the department like planned lunches and dinners can help bring it back.

Combating isolation and developing a culture of wellness within a group or division is central to a session by Brandon P. Brown, MD, a radiologist at the Indiana University School of Medicine in Indianapolis and chair of RSNA’s Professionalism Committee. Dr. Brown will describe how his institution spent two years building a healthy well-being, which helps diffuse the stress and burnout experienced by so many radiologists.

Increasing workloads also put pressure on radiologists looking to start families. An RSNA 2019 panel discussion will look at this pressure in the context of the U.S. 1993 Family and Medical Leave Act (FMLA), which allows employees up to 12 weeks of leave to care for a new child. That length of time can be problematic for smaller radiology practices, said session presenter Catherine J. Everett, MD, a diagnostic radiologist at Coastal Radiology in New Bern, NC. Dr. Everett, who only had two weeks off for the births of each of her five children, will talk about the limitations of FMLA and new ways to think about family leave.

Another way radiologists can mitigate burnout is by better organizing their lives, according to presenter Puneet Bhargava, MD, a radiology professor at the University of Washington in Seattle, who will present findings from more than a decade of research analyzing time management and productivity.

“Success leaves clues behind,” Dr. Bhargava said. “When you look at the people who navigated stress and burnout challenges successfully, the common thread that emerges is that they were very organized and had a plan.”

The presenters agree that reducing burnout will take a concerted effort from the top down to tackle the problem before it gets worse.

“When we’re constantly at full tilt, it changes the nature of what we do as physicians,” Dr. Fried said. “We need to take care of ourselves if we are going to survive the monumental changes of the last 10 to 15 years and those that lie ahead.”

As radiologists continue to face mounting workloads and competing demands on their time, having dinner with a co-worker or attending a yoga session may not be high on their list of priorities.
RSNA Case Collection™
MAKE YOUR MARK IN RADIOLOGY

Share your expertise.
Advance your career.
Enhance your CV.
Submit to the new RSNA Case Collection.

Your case will help build an extensive education and point of care resource—offering access to the global radiology community.
All submissions are peer-reviewed and RSNA-vetted to provide a curated and trusted resource that aids in diagnosis.

RSNA.org/Journals

RSNA Journals™

Radiology

RadioGraphics

Radiology: Artificial Intelligence

Radiology: Cardiothoracic Imaging

Radiology: Imaging Cancer
See the Innovative Possibilities in the Technical Exhibits Halls

More than 700 leading manufacturers, suppliers and developers of medical information and technology help make the RSNA Technical Exhibits Halls the ideal setting to engage with industry experts and discover the latest medical imaging products and services. Shop and compare equipment supplies, devices and software throughout the North and South Buildings and AI Showcase.

India, Egypt Featured in 2019 Country Presents Session

This year RSNA honors two international radiology associations with its Country Presents series: The Indian Radiological & Imaging Association (IRIA) and the Egyptian Society of Radiology and Nuclear Medicine (ESRNM).

India Focuses on Unique Challenges

The RSNA 2019 session India Presents: Indian Radiology — Serving a Billion Population, held on Monday, Dec. 2, will feature a delegation from IRIA who will discuss radiological trends prevalent in India and solutions to the country’s unique challenges. The series will begin with a short cultural program and an overview of radiology in India by IRIA National President Hemant T. Patel, MD, followed by a panel discussion on radiology and infectious diseases, imaging trends in oncology and the practice of radiology in rural India and the country’s corporate hospitals. Bijal B. Jankharia, MD, will discuss IRIA’s breast imaging outreach programs in India’s second- and third-tier cities. To showcase one of its major initiatives, the Samrakshan Program, which identifies pregnancies at risk for pre-eclampsia/hypertension and fetal growth restriction at 12 weeks using ultrasound, Bhupendra Ahuja, MD, will present Evolution of Fetal Radiology: Our Challenges, Our Achievements. The IRIA recently established a research and education foundation to foster more research in AI, disease-based radiology and sequencing. Two presentations will discuss this new initiative: Radiology Post-Graduate Education in India: Preparing Gen Next by Mohan Kunnimmel, MD, and Artificial Intelligence (AI) in Indian Radiology: We are all Set! by Harsh Mahajan, MD.

Egypt Takes a Case-Based Approach

Radiologists from ESRNM will present a Tuesday, Dec. 3, session, Radiology in Egypt: A Case-Based Approach, featuring a review of 15 different radiology cases. Pediatric care in Egypt is concentrated in large, national specialized pediatric hospitals that serve significant geographic regions of the country. Mohamed Elltomey, MD, will discuss several complex and rare pediatric cases from these national centers. The women’s imaging unit at Cairo University is the first academic facility dedicated to the subspecialty in Egypt and Dorria Salem, MD, will present imaging diagnoses from the unit, focusing on rim enhancing lesions and the merits of imaging modalities for reaching a diagnosis. Norran H. Said, MD, will discuss several ongoing research projects using contrast-enhanced mormography and its role as a problem-solving tool in the diagnostic and screening setting. In a case review on the use of radiology to safely and non-invasively investigate ancient mummies and artifacts, Sahar Saleem, MD, will discuss how archaeological imaging uncovers new information about ancient civilization and helps museums create 3D printed replicas of rare artifacts.

"I hope the Egyptian participation at RSNA 2019 will be remarkable and impressive," said Professor Tarek El-Diasty, ESRMN chairman and head of the Radiology Department, Urology and Nephrology Center, Mansoura University. "I wish for a very fruitful gathering for Egyptian attendees."
discovery theater features entertainment and education

the discovery theater hosts informative, entertaining programming all week. back by popular demand is the diagnosis live™ resident competition with residency programs competing for the ultimate bragging rights. along with a diverse spectrum of theater performances, presentations include navigating RSNA presented in multiple languages, navigating Chicago for residents, and information about new RSNA programs. view the full schedule at meeting.RSNA.org.

discovery theater performances daily at noon:

- Sunday: broadway classics: Jordan von Haslow & Quintet
- Monday: acoustic artist: Melanie Devaney
- Tuesday: ukulele Barrett Band
- Wednesday: martín meteger flamenco quartet: Nooon – 1 p.m.
- Thursday: acoustic artist: Cary Kanno

continuing Education CredItS available

RSNA is accredited by the Accreditation Council for Continuing Medical Education (ACCM) to provide continuing medical education for physicians. RSNA designates this live activity for a maximum of 94 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity. Attendees can evaluate CME courses and claim credit electronically.

self-assessment modules (SamS) this year, 24 courses offered by RSNA have been approved for Self-Assessment Modules (SAMs). Each RSNA in-person SAM is available for up to 1.50 SAM credits and up to 1.50 AMA PRA Category 1 CreditsTM. Note: All courses designated for SAM credit at RSNA 2019 will require attendees to use their personal devices to complete the required test questions during the live session. To claim SAM credit, attendees must complete the required test questions during the live session and evaluate and claim CME for the SAM course. RSNA staff will be on hand in Digital Support and the Learning Center Information Desk to assist with the process; visit Meeting.RSNA.org for additional details.

RSNA connections center: your RSNA 2019 home base

located in lakeside center east, Level 3, the RSNA connections center is your central hub to learn about RSNA services, get your questions answered or enjoy a break from meeting sessions. Attendees can access:

digital support
RSNA technology experts can provide one-on-one digital help with Meeting Central, the meeting app, Virtual Meeting, Credit Eval, My Agenda and Diagnosis Live™. They will also help you with any connectivity issues and answer questions about iOS and Android functionality.

information desk
visit RSNA staff at the information desk for answers to your questions about RSNA 2019.

membership & resources
staff will be available to provide information about RSNA membership benefits and services including:

- career connect
- image wise
- informatics products
- international programs
- journal subscriptions
- membership renewals and payments
- online education
- radiology care™: The art of patient-centered practice
- radiologyinfo.org
- virtual meeting

ribbon pick up
the self-serve ribbon wall is located in the membership & resources area. if you don’t see one you are looking for, please ask for assistance.

R&E donor suite
learn about the R&E Foundation and how you can seed the future of radiology with a gift. Read about current grant and award recipients as well as individual, private practice and corporate donors. Attendees with a donor ribbon and those who contribute at least $300 onsite enjoy exclusive access to the Donor Suite, which features computers, a coat room, comfortable furniture and light refreshments.

caricatures offered on #givingtuesday
help change the face of radiology by letting our artists create a caricature of yours! Show your support for the R&E Foundation and receive a fun RSNA 2019 souvenir. Available Tuesday, Dec. 3, 9 a.m. – 5 p.m., next to the RSNA Shop. $25 per caricature with all proceeds benefiting the R&E Foundation.

RSNA photo booth
choose from a variety of custom backdrops to create your own fun photo. RSNA will share your photo on our #WeAreRadiology wall in the membership & resources area. A photographer will also be on hand to take professional portraits, which will be sent via email. Photos are complimentary.

fun photos:
- Sunday, Tuesday and Thursday, 9 a.m. – 5 p.m.
- Monday and Wednesday, 12:30 – 5 p.m.

professional Portraits:
- Monday and Wednesday, 9 a.m. – Noon

the RSNA shop
RSNA Shop is your go-to resource for RSNA branded merchandise and apparel. Choose from gifts including holiday ornaments, hats, keychains, golf balls, fleece tops, and a limited edition water bottle to support the R&E Foundation.

RIBbons pick up
the self-serve ribbon wall is located in the membership & resources area. if you don’t see one you are looking for, please ask for assistance.

R&E donor suite
learn about the R&E Foundation and how you can seed the future of radiology with a gift. Read about current grant and award recipients as well as individual, private practice and corporate donors. Attendees with a donor ribbon and those who contribute at least $300 onsite enjoy exclusive access to the Donor Suite, which features computers, a coat room, comfortable furniture and light refreshments.

RSNA learning center features thousands of posters and exhibits

located in lakeside center east, Level 3, the Learning Center houses more than 2,500 education exhibits and scientific digital posters covering a range of subspecialties. Scientific posters will be displayed within each learning community. During the lunch hour, authors will be present for poster discussions. Visit Meeting central for days/times.

RSNA case collection
visit the lounge near the RSNA Journal’s Editorial Offices to learn more about RSNA Case Collection — launching in mid-2020. together we’re building an education and point-of-care resource with access to the global radiology community. Attend a Discovery Theater presentation about the Case Collection on Sunday, Dec. 1, at 2:30 p.m.

crowds cancer care: help annotate data from the cancer imaging archive

Attendees are invited to participate in this crowd-sourcing initiative to generate valuable data on deep learning, radiomics and radiogenomics and accelerate quantitative imaging research. Images are provided by the National Cancer Institute’s Cancer Imaging Archive (TCIA). Because many cases lack the tumor-location labels that computer scientists need to jump-start their research, participants will be asked to anonymously review cases and visually mark tumor locations. TCIA will share this data to accelerate cancer research. Attendees who complete the project will receive an RSNA ribbon.

The crowds cancer care booth will be open all day throughout the week.

NCI image perception lab
researchers supported by the National Cancer Institute (NCI) will conduct studies on radiologic image perception at RSNA 2019. Attendees can learn about this important area of research, and if they wish, participate in the studies as volunteers.

quality improvement (QI) report walk
join experts in quality improvement (QI) in radiology as they walk through the QI reports, highlighting examples of great work and sound methodology. Those interested in leading and publishing QI projects will find this especially valuable. The QI report walk will be held Monday, Dec. 2, at 3 p.m. in the Quality Report section. This session may be claimed for AMA PRA Category 1 Credits™.

continuing education credits available

RSNA is accredited by the Accreditation Council for Continuing Medical Education (ACCM) to provide continuing medical education for physicians. RSNA designates this live activity for a maximum of 94 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity. Attendees can evaluate CME courses and claim credit electronically.

self-assessment modules (SAMs) this year, 24 courses offered by RSNA have been approved for Self-Assessment Modules (SAMs). Each RSNA in-person SAM is available for up to 1.50 SAM credits and up to 1.50 AMA PRA Category 1 Credits™. Note: All courses designated for SAM credit at RSNA 2019 will require attendees to use their personal devices to complete the required test questions during the live session. To claim SAM credit, attendees must complete the required test questions during the live session and evaluate and claim CME for the SAM course. RSNA staff will be on hand in Digital Support and the Learning Center Information Desk to assist with the process; visit Meeting.RSNA.org for additional details.

Sunday’s Physics Quiz
What is the approximate ratio of skin dose from digital subtraction angiography to conventional fluoroscopy in IR procedures?

[Answer on page 13A.]

American Association of Physicians in Medicine
McCormick Place: An Art Museum Within a Convention Center

By Richard Dargan

Large collection of public artwork showcases Chicago history and culture

If you’ve attended an RSNA annual meeting, you’re probably familiar with the massive square footage, long escalators and subterranean bus gates at McCormick Place. But you might not know that McCormick Place houses a superlative collection of public art. There are more than 100 pieces on display, mostly concentrated in the South and West buildings.

The collection began in the South Building in 1997, with major works from both Chicago-based and international artists, before the focus was refined with the opening of the West Building in 2007, according to McCormick Place officials.

“There’s a little bit of everything in the collection,” she said. “You’ll see photography, painting and sculpture in both representational and abstract form. It’s like walking around a museum.”

Artists Capture the Essence of Chicago

For the West Building, planners worked closely with Chicago-area artists to fit pieces into the architecture of the space.

Dan Ramirez’s suite of eight paintings, for instance, discreetly occupies niches along the Central Concourse. Ramirez sprayed and brushed acrylic polymers over 15-foot-tall aluminum panels to create the series, which was inspired by writer Nelson Algren’s 1951 prose poem Chicago: City on the Make. A contrast to the rectilinearity of Ramirez’s series, Chicago-based artist Nick Cave’s Universe (2007) presents an explosion of flower petals across an eight-foot-diameter disc. A closer look at the piece reveals Cave’s skill at integrating scraps of material like sequined and beaded fabric into the work, an aptitude he developed as a child repairing hand-me-down clothes in his large family in Missouri.

Patrick Micelli’s installation Made in China (2007) on Level 1, also requires a closer look. Micelli created the work by hanging thousands of pieces of Illinois memorabilia, including toy cars, bottle openers and key chains, from steel cables.

The mural A Twilight Dream by Chicago native Dzine stretches 100 feet along a wall near the main walkway. Dzine, who got his start as a graffiti artist before turning to abstract painting, drew inspiration from the 1893 Columbian Exposition, also known as the Chicago World’s Fair. Circular forms allude to the Ferris wheel from the 1893 Columbian Exposition, and railroads.

Other inventive visions of the city include Sabrina Raaf’s Curtain Wall (2007), a stainless steel and cast filament sculpture from the late Canadian artist Micheline Beauchemin, serves as a kind of ephemeral companion piece to Chicago’s chandelier.

The South Building maintains an emphasis on local artists while making space for contributions from artists outside Illinois. In renowned glass sculptor Dale Chihuly’s Mccormick Place Chandelier (1997), located on Level 4, tendrils of glass cascade out of a pile of ruby-red globes.

Dream Catcher (1997), a delicate monofilament sculpture from the late Canadian artist Micheline Beauchemin, serves as a kind of ephemeral companion piece to Chicago’s chandelier.

The collection offers a fascinating look at how different artists interpret Chicago, according to Nicol Chervenak, MPEA’s Director of Planning and Program Management.

“Artists Capture the Essence of Chicago. For the West Building, planners worked closely with Chicago-area artists to fit pieces into the architecture of the space.”

In addition to the art in the West and South Buildings, McCormick Place hosts a rotating collection of outdoor sculptures. A curated collection of pieces from Chicago-based artists opened in 2017.

“There’s a little bit of everything in the collection. You’ll see photography, painting and sculpture in both representational and abstract form. It’s like walking around a museum.”

Nicol Chervenak

Special Recognition for In-Kind Support

RSNA would like to recognize the following companies for contributing equipment to the Educational Courses at RSNA 2019:

Bard
BD
Canon Medical Systems, USA, Inc
CICO Medical Solutions
Cook Medical, LLC*
FormLabs
GE Healthcare
Hitachi Healthcare
Hologic
IBM Watson Health
INRAD, Inc
Invivo Corporation
IZI Medical Products*
Konica Minolta Healthcare Americas, Inc
Mammotome*
Medtronic*
Mindray
Monarch Medical*
NeuWave Medical*
Parker Laboratories, Inc
Philips
Samsung
Siemens Healthineers
Sonoscanner US
SuperSonic Imagine
TeraRecon
UltimaMed
Vital
Welch Allyn*

Special Recognition for unrestricted educational grants:

Hologic, Inc; Unrestricted educational grant in support of the Breast Series: Emerging Technologies
Bayer; Unrestricted educational grant in support of the MRI Safety Course
(Gadolinium and Pacemakers)

*Companies not exhibiting
Outstanding Educator and Researcher Awarded Today

Today RSNA will recognize Jocelyn Chertoff, MD, and Elizabeth Krupinski, PhD, for their contributions to education and research. The presentation will take place during the plenary session in Arie Crown Theater beginning at 8:30 a.m.

2019 Outstanding Educator

A powerful advocate for improving resident education, faculty development and workforce issues in radiology, Jocelyn D. Chertoff, MD, specializes in gastrointestinal imaging. A graduate of Brown University and the University of Vermont College of Medicine, Dr. Chertoff serves as radiology department chair and professor of radiology and obstetrics and gynecology at Dartmouth Hitchcock Medical Center, where she also directed the diagnostic radiology residency program from 1993 to 2010.

After receiving her medical degree, Dr. Chertoff completed a transitional internship at Hartford Hospital and a pediatric internship at the University of Connecticut Health Sciences Center. She worked for two years in a physician shortage area in New York State, then served as the medical director for Vermont EMS. She next turned her focus to medical imaging, completing a residency in radiology and a fellowship in cross-sectional imaging at the Medical Center of Vermont.

J. V. Chertoff was named a 2003-2004 fellow of the Hedwig van Ameringen Executive Leadership in Academic Medicine (ELAM) program.

Dr. Chertoff received a master’s degree from the Center for the Evaluative Clinical Sciences at Dartmouth College in Hanover, NH, and a master’s degree in health care delivery science from Dartmouth’s Tuck School of Business. She is now a member of the Dartmouth-Hitchcock board of governors and board of trustees and serves on the board of advisors at Geisel School of Medicine at Dartmouth College.

Dr. Chertoff leads several educational programs for residents, faculty development courses, and initiatives addressing issues for women physicians. She is a past chair of the Association of American Medical Colleges’ Group on Women in Medicine and Science and a past president of the Association of Program Directors in Radiology (APDR). Alliance of Clinician Educators in Radiology (ACER), the Association of University Radiologists (AUR) and the New Hampshire Radiological Society.

Widely recognized as a dedicated educator, Dr. Chertoff received the ACER Achievement Award in 2012. She served as an oral board examiner for the ABR for nine years and in 2013 was awarded its Distinguished Service Award. In 2017 she received both the APDR Achievement Award and an AUR gold medal.

2019 Outstanding Researcher

A professor and vice chair for research in the Departments of Radiology & Imaging Sciences, Psychology, and Biomedical Informatics at Emory University in Atlanta, Elizabeth A. Krupinski, PhD, is a renowned investigator in the arena of perception and cognition in medical imaging, studying how the image information, automated enhancements and human factors influence image interpretation.

She has been the associate director of evaluation for the Arizona Telemedicine Program and co-director of the Southwest Telehealth Resource Center at the University of Arizona in Tucson where she leads multiple research initiatives on utilizing telemedicine to improve patients’ access to care.

In her research, Dr. Krupinski has explored the effects of image manipulation on clinical observer performance and investigated conditions such as experience level and fatigue as factors that impact interpretive accuracy and efficiency. Her eye-tracking experiments have demonstrated how training levels and expertise, display type, and reading environment can affect performance.

Dr. Krupinski received her BA from Cornell University and her MA in experimental psychology from Montclair State University in New Jersey, where she was named Most Outstanding Psychology Graduate Student and Most Outstanding Graduate Student in Arts and Sciences.

She completed her postgraduate training at the University of Pennsylvania’s Department of Radiology and received her PhD, also in experimental psychology, from Temple University in Philadelphia.

An experienced leader, Dr. Krupinski is a past chair of the Society of Photo-Optical Instrumentation Engineers (SPIE), Medical Imaging Conference, past president of the American Telemedicine Association (ATA), president of the Medical Image Perception Society, and past chair of the Society for Imaging Informatics in Medicine (SIIM).

Dr. Krupinski has contributed to more than 280 peer-reviewed scientific publications, and she serves on a number of editorial boards and is co-editor of the Journal of Telemedicine and Telecare. She has served on the program committees of more than 30 academic societies, including SPIE and the American Association of Physicists in Medicine (AAPM).

Dr. Krupinski received the Academy for Radiology & Biomedical Imaging Research Distinguished Investigator Award in 2014 and the ATA President’s Award for Individual Leadership in 2017.

Get the Most Out of RSNA 2019 with Virtual Meeting

Enjoy all the excitement of the meeting and get the content you need during and after RSNA 2019.

- 400+ live and on-demand courses
- CME credit for Cases of the Day and live and select on-demand courses
- Scientific presentations and education exhibits
- Access through April 30, 2020

Virtual Meeting

RSNA® 2019
SEE POSSIBILITIES TOGETHER

UPGRADE YOUR PACKAGE TO STANDARD + VIRTUAL AT RSNA.ORG/REGISTER
Monday Session Explores the Imaging of Depression

Neuroimaging makes inroads toward quantifying and treating the complex, widespread disease

By Evonne Acevedo

As depression continues to afflict millions of people worldwide, researchers in a number of medical disciplines — including radiology — are working together to accelerate progress in treating and diagnosing the crippling disease.

In a Monday Special Interest Session, Paths to Recovery: What Can Neuroimaging Teach Us about Depression and Its Treatment, experts in neuroimaging, psychopathology and psychiatry will discuss the increasingly critical role neuroimaging plays in furthering the understanding of the complex disease that impacts more than 300 million people across the globe.

“Depression is a huge clinical problem,” said session moderator David B. Hackney, MD, a professor of radiology at Harvard Medical School and chief of neuroradiology at Beth Israel Deaconess Medical Center in Boston. “Millions of people have depression, and a substantial subset of those people have severe, ongoing depression that doesn’t get better with standard talk therapy and medication. This session will focus on how, when you can identify areas of the brain that respond to treatment, you can do these people a great service.”

Presenters Helen S. Mayberg, MD, a professor of neurology, neurosurgery, psychiatry and neuroscience at Icahn School of Medicine at Mount Sinai in New York, and Qiyong Gong, MD, PhD, a professor of radiology at West China Hospital of Scibghuan University, China, will demonstrate how neuroimaging can guide antidepressant therapies like deep brain stimulation. (See sidebar.) Both presenters are currently associate editors of the American Journal of Psychiatry.

Dr. Mayberg is renowned for her study of brain circuits in depression. Dr. Gong is a leader in the new field of psychopathology, which explores interactions between what radiologists can see on imaging using purely anatomical techniques and understanding the brain function that underlies depression and other psychiatric diseases.

“Psychiatrists and physicians are good at making a diagnosis of depression, but we have limited knowledge of objective criteria for subtypes,” Dr. Mayberg said. “We can tell what symptoms are dominant, but we need biomarkers that can help stratify treatment outcomes.”

In mapping how the brain responds to treatment, imaging has helped conceptualize mental health issues as actual brain disorders and is taking research beyond brain lesions to brain circuits, Dr. Mayberg said.

“I am a psychiatrist; I am a neurologist who started doing imaging in the mid ’80s as a research tool,” Dr. Mayberg said. “Imaging remains an important investigation tool to understand how the brain changes over time and to help select patients who can benefit from targeted therapies. The takeaway is that we’re working on quantitative ways to make diagnoses and customize treatments.”

Session Tackles Depression

The Special Interest Session: Paths to Recovery: What Can Neuroimaging Teach Us about Depression and Its Treatment, SPSI25, will be held Monday at 4:30 p.m. David B. Hackney, MD, will moderate.

Presentations are:

- Depression 101: Current Approaches to Diagnosis and Treatment, Helen S. Mayberg, MD
- Current Psychopharmacology for Depression, Qiyong Gong, MD, PhD
- Strategies to Develop Imaging Biomarkers for Treatment Selection, Dr. Mayberg
- Theory to Practice: Targeted Modulation of Depression Circuits using Deep Brain Stimulation, Dr. Mayberg

More Daily Bulletin Online

Stay connected to all things RSNA 2019 through the print and online versions of Daily Bulletin, the official newspaper of the annual meeting. The digital edition is available on the RSNA 2019 meeting app and online at RSNA.org/Bulletin. Additional features include exclusive online content, video interviews and interactive quizzes and polls. Dr. Mayberg, known for her pioneering work in deep brain stimulation research, will speak on the technique during the RSNA Special Interest Session. Dr. Mayberg is also a pioneer in minimally invasive interventional psychopathology which may be achieved in the future through technical advances such MR-guided focused ultrasound.

“I am not a psychiatrist; I am a neurologist who started doing imaging in the mid ’80s as a research tool,” Dr. Mayberg said. “Imaging remains an important investigation tool to understand how the brain changes over time and to help select patients who can benefit from targeted therapies. The takeaway is that we’re working on quantitative ways to make diagnoses and customize treatments.”

Daily Bulletin

Hackney

Mayberg

Gong

Learn more at imagewisely.org

Do You Image Wisely?
Renew your pledge today!

Pledge for 2020

Ways to show you image wisely:
- Take the pledge every year
- Stay updated with News and What We’re Reading
- Earn CE with free radiation safety cases*
- Get free online materials for your patients at radiologyinfo.org
- Access RSNA radiation dose exhibits
- Visit imagegently.org for pediatric information
- Be sure to visit:
  ACR Booth 3316, South Hall A
  RSNA Connections Center, Membership & Resources
  AAPM Booth 1109, South Hall A
  ASRT Booth 1112G & 2508, South Hall A
- *Approved for AMA PRA Category 1 Credits™, Category A Credit and CAQMP Credit

Your pledge to Image Wisely® is an annual event that expires every Dec. 31.

Sunday’s Physics Tip

Ensuring that copper filtration is utilized in all fluoroscopic scanning modes will reduce the risk of skin reactions during IR procedures.
RSNA Virtual Meeting is Virtually Unmatched

By Mike Bassett

Since 2011, the rapidly growing Virtual Meeting has emerged as model of success

When RSNA — which hosts the world’s largest annual medical imaging meeting — took its first steps into the virtual world, the Society started small.

Launched in 2011, the first Virtual Meeting offered simultaneously with the onsite RSNA annual meeting in Chicago, included nine sessions with accompanying slides and videos of speakers, as well as an online technical exhibit. Over the years, the Virtual Meeting has expanded dramatically in terms of content and evolved significantly based on member input.

“The Virtual Meeting started out as an experiment: Could we deliver the same high-quality content and onsite expertise to maximize your RSNA 2019 experience.”

In less than a decade the RSNA Virtual Meeting — one of the first medical meetings to offer live-streaming sessions — has evolved into one of the most successful, influential virtual models in health care today, according to RSNA leaders.

In 2018, Virtual Meeting content was expanded to include 233 sessions (40% of the meeting program), including scientific and educational sessions. In 2019, this coverage will expand to 80% of the meeting program.

RSNA 2018 also marked the third consecutive year that a selection of on-demand courses offered CME credit upon evaluation and exceeded the number offered when on-demand CME sessions were introduced at RSNA 2016. “Starting in 2020, RSNA’s goal is to offer 100% of eligible meeting content through the Virtual Meeting, which is truly an amazing achievement,” Dr. Langlotz said.

Virtual Component Adds Dual Value

Because RSNA’s onsite meeting is so successful, there was some question about whether the virtual program would impact in-person attendance at the annual meeting. But that has not happened.

“That is a concern, so we have been monitoring the boots-on-the-ground component of the RSNA annual meeting to ensure we have been expanding the virtual component, and in-person attendance has not changed,” said Matthew Mauro, MD, the RSNA Board of Directors liaison for education.

The dual value of having an onsite and Virtual Meeting creates an added appeal for many attendees.

“One component of high value is the scientific and educational content,” said Dr. Mauro, chair of the Department of Radiology, University of North Carolina, Chapel Hill. “Hence, the Virtual Meeting allows people who can’t attend, or can only attend some of the meeting, to still have access to the premier scientific and education materials in our discipline.”

On the other hand, the RSNA annual meeting is still the premier venue for science and education sessions, personal interaction with colleagues and access to a technical exhibits that is second to none, according to Dr. Mauro.

“We are still attracting a lot of people who attend for the trade component of the RSNA annual meeting, along with those seeking access to the thousands of onsite scientific and educational sessions, and personal interaction with their colleagues,” Dr. Mauro said.

In fact, the number of Virtual Meeting attendees who physically attend the annual meeting in Chicago has been growing. Of the 6,298 total registrants for the Virtual Meeting in 2018, less than half (2,800) were virtual-only registrants.

Attendees Value Virtual Model

For those who can’t travel to Chicago, the Virtual Meeting offers a welcome alternative. As a frequent attendee of the RSNA Virtual Meeting, Kashef Ashrif, MBBS, of James Paget University Hospitals and Norfolk Imaging Alliance, Norfolk U.K., says the Virtual Meeting gives attendees access to sessions they might otherwise miss.

“The ability to access sessions virtually — such as with Cases of the Day — can make it easier for attendees who spend much of their time in Chicago running around from room to room to attend the talks,” Dr. Ashrif said.

Richard Num, MD, a radiologist in private practice in Adelaide, Australia, who has attended the Virtual Meeting every year since its inception, said he uses the virtual model to access plenary sessions, case discussions and Cases of a Day. He also appreciates that live-streamed sessions are recorded for post-meeting access.

“After the meeting, we are able to revisit a particular session or, if we wish, view sessions we missed,” Dr. Num said. “Virtual attendees can obtain a first-class education without the strain and cost of physically travelling to the other side of the world.”

At RSNA 2019, more than 400 live-streamed sessions will be available on-demand within 24 hours and will be accessible to virtual meeting registrants through April 30, 2020.

To register for the Virtual Meeting, visit an Information Desk or go to RSNA.org/Virtual.

RSNA Keeps You Connected

RSNA Technology and Resources

From building your meeting schedule to charging your mobile device, RSNA offers the technology and onsite expertise to maximize your RSNA 2019 experience.

Meeting Central

Optimized for mobile devices, Meeting Central (Meeting.RSNA.org) is an essential resource for content any time, any place. RSNA 2019.

RSNA Meeting Program

Browse the listings of educational courses, scientific presentations, education exhibits and additional events. Search for courses, sessions and events by keyword, title or name of presenter, using helpful filters by day, session type and subspecialty.

Technical Exhibitors List

Learn about the companies unveiling the latest equipment and technology. Search the exhibitor listing by product category or name to find companies and add them to your agenda. You can also schedule an appointment with exhibitors noted with the Featured Exhibitor icon.

Virtual Meeting Program

Browse virtual sessions available live or on-demand either onsite or virtually from anywhere across the globe.

My Agenda

Build your meeting calendar and stay organized with a handy scheduler personalized to your needs — perfect for planning ahead — and access Credit Eval. Please note courses are seated on a first-come, first-served basis and adding a session to My Agenda does not reserve a seat.

RSNA 2019 Meeting App

Download the RSNA 2019 Meeting App for iPhone, iPad and Android smartphones to access and explore the Meeting Program even when you’re offline. Browse the technical exhibitor list and customize your daily meeting schedule with My Agenda.

The RSNA 2019 Meeting App is available via the App Store and Google Play.

Stay Connected

Internet Stations

Computers will be available at internet stations throughout McCormick Place to access Meeting Central and Credit Eval.

Free Wifi

Free wireless connectivity is available throughout McCormick Place. These wireless networks are not secure and should not be used for sending sensitive information.

Charging Stations

Charge your laptop, phone or other mobile device at one of the Charging Stations located throughout McCormick Place.

Digital Support

RSNA technology experts are available to help you with Meeting Central, the meeting app, Virtual Meeting, Credit Eval, My Agenda and Diagnosis Live™. They can also help you with any connectivity issues and answer questions about iOS and Android functionality.

Meeting Essentials

Onsite Registration/Badge Pickup

Attendees can complete their registration at designated registration areas in McCormick Place or online at RSNA.org/Register.

Name badges can be picked up at any of the three designated registration locations or at designated hotels (see below). A valid photo ID is required.

Your badge serves as a virtual business card and is encoded with the demographic information you provided during registration. Upon request, exhibitors may scan your badge to access your contact information. Your badge contains beacon technology to verify your attendance, simplify the CME process and permit RSNA to gather data to better understand, in aggregate, the effectiveness of the meeting. Please visit any registration location if you have questions about beacon technology.

Registration/Badge Pickup Locations

North Building, Level 2
Saturday – Thursday, 7 a.m. – 5 p.m.
South Building, Level 1 and Lakeside Center East Building, Level 2
Saturday, 11:30 a.m. – 5 p.m.
Sunday – Thursday, 7 a.m. – 5 p.m.
Lakeside Center East Building Only
Friday, 7 a.m. – Noon

Badge Pickup Kiosks

Hilton Chicago, 725 S. Michigan Ave.
Hyatt Regency Chicago, 151 E. Wacker Dr.
InterContinental Hotel, 505 N. Michigan Ave.
Westin Michigan Avenue, 999 N. Michigan Ave.
Saturday, Noon – 8 p.m.
Sunday, 6 a.m. – 8 p.m.

Ribbon Pick Up

All badge ribbons for committee, council or group work are available at the self-serve ribbon wall located in Membership & Resources in the Connections Center.

Meeting Bag and Meeting Guide

Attendees can pick up the official meeting bag and Meeting Guide at the self-serve distribution areas in the Lakeside Center East, Level 2, the North Building, Level 2 and the South Building, Level 1.

The RSNA 2019 Meeting Guide includes course and event information, McCormick Place floor plans, transportation and dining. The full program is available online at Meeting.RSNA.org.

Subspecialty Brochures

Available at kiosks throughout McCormick Place, subspecialty brochures highlight the sessions available in that topic. Attendees can also filter by subspecialty in the online program at Meeting.RSNA.org.

Sunday’s Answer

[Question on page 9A.]

A

One minute of digital subtraction angiography will impart about the same skin dose as 30 minutes of conventional fluoroscopy.
Diagnosis Live™: Transforming Radiology Education

By Jennifer Allyn

In a world where even instant gratification isn’t fast enough, the radiology community has embraced RSNA Diagnosis Live™, a mobile-based radiology teaching tool that allows users to compete against each other using an audience response system that provides immediate feedback to users about their responses and how well they answered compared to their peers.

Designed to help radiologists — trainees and seasoned professionals alike — sharpen their skills and learn new techniques while fostering a sense of competition, Diagnosis Live offers multiple-choice or image-based questions on a wide variety of radiology topics.

The technology was introduced at RSNA 2011, and the number of annual meeting sessions featuring Diagnosis Live has grown each year. During RSNA 2019, a wide variety of Diagnosis Live sessions and courses that use the technology will be offered. Two sessions focus on how to use Diagnosis Live to its fullest potential. (See sidebar.)

One of the most popular, and occasionally heated, sessions is the RSNA Diagnosis Live Residents Competition, held on Monday afternoon.

For the past two years, radiology residency programs have participated in the competition, answering board review-type questions. Moderated in a one-hour session, the competition is an entertaining and animatred, must-win for a residency program to earn bragging rights. Last year’s winner, Brigham & Women’s Hospital in Boston, will defend its title during this year’s competition.

“The Diagnosis Live Residents Competition is fun because inherently it is a competition,” said Omer Awan, MD, MPH, associate professor of radiology at University of Maryland Medical Center in Baltimore, and the moderator for this year’s competition. “It is also a great avenue for residents to network, interact with incredible faculty and residents and also to see high yield board-type cases from institutions that they otherwise wouldn’t have access to.”

Outside of the annual meeting, Diagnosis Live is the most widely-used audience response system in radiology residency programs across the U.S. “Diagnosis Live has been successful in the radiology classroom because the cloud-based platform facilitates an easily accessible real-time interactive learning experience,” said Paul Chang, MD, who was instrumental in leading discussions about developing Diagnosis Live and is professor and vice-chairman of radiology informatics at the University of Chicago School of Medicine.

“In addition, the available analytics component of Diagnosis Live helps teachers assess learning in real time.”

Registered institutions can contribute to the Diagnosis Live website by uploading presentations and using custom tools to build a game that can be made public or private. Worldwide, 180 radiology residency programs hold Diagnosis Live licenses.

Diagnosis Live has also been widely accepted by seasoned radiology professionals looking to strengthen and grow their skills.

“Radiologists like to be challenged,” said Adam E. Flanders, MD, an early collaborator on Diagnosis Live and a professor of radiology and rehabilitation medicine and vice chair of imaging informatics, Thomas Jefferson University Hospital, Philadelphia. “I’ve been teaching the 7 a.m. ‘eye-opener’ courses at the meeting for years and have been shocked by the throngs of people who show up early just to participate in a little pre-meeting ‘quiz’ session,” he added.

RSNA Diagnosis Live™ at RSNA 2019

Check out this year’s roster of expert-moderated Diagnosis Live™ sessions featuring a series of case-based competitions to challenge your diagnostic skills. Session highlights include:

- Radiology Stranger Things: A Journey into the Upside Down Monday 7:15 a.m. | SPDL20 Room: E451B
- RSNA Diagnosis Live Resident Competition Monday 2 p.m. Discovery Theater
- Chest and Abdomen Monday 4:30 p.m. | SPDL21 Room: E451B
- Houston, We Have a Problem Tuesday 7:15 a.m. | SPDL30 Room: E451B
- Body Imaging Case Challenge Wednesday 7:15 a.m. | SPDL40 Room: E451B
- Neuro and MSK Wednesday 4:30 p.m. | SPDL41 Room: E451B
- Keeping Radiology Weird: Spot Diagnoses from the Pacific Northwest Thursday 7:15 a.m. | SPDL50 Room: E451B
- Peds, IR, Potpourri Thursday 3 p.m. | SPDL51 Room: E451B

RSNA 2019 will feature sessions on the basics of using RSNA’s web-based audience response system for educating residents:

- RSNA Diagnosis Live Interactive and Mobile Device Integrated Audience Response: Tips, Tricks, and How to Get Started Monday 2:30 p.m. | RCA24 Room: S401AB

Add these courses to My Agenda at Meeting.RSNA.org.

Stay Informed with Specialized CME that Fits Your Needs.

Visit RSNA.org/Learning-Center to get started today.

Everything you need.

ALL IN ONE PLACE.

The Official RSNA 2019 Meeting App.

Don’t RSNA without it!

- Meeting Program
- Agenda Planner
- Peer Finder
- Exhibitor List
- Transit Tracker
- McCormick Place Maps

Download it today!

Available on the App Store

Android Smartphones

Android Phone and iPad
MEDRAD® Stellant has a new FLEX Appeal.

The newest MEDRAD® Stellant FLEX CT Injection System from Bayer takes your contrast delivery to the next level with:

- Updated scan room and control room technology
- Flexible choice of a smaller, lower-cost syringe option with less environmental impact
- New features designed for easy visualization of fluids
- Automated, accurate documentation*

See how effortless it is to lower operating costs while enhancing imaging workflow. Explore our CT solutions at stellantflex.com.

*Requires additional software purchase.

Visit us at RSNA 2019
Booth 2529
Getting to answers faster is our obsession at Konica Minolta. Because the shorter the path to answers, the better the outcome for patients. From pioneering technologies that accelerate diagnoses to efficient workflows that streamline care pathways, that’s our vision for the future of healthcare.

Find out how Konica Minolta can get you there. Visit Booth #2538