Welcome to RSNA 2018

Dear Colleagues,

It is my pleasure to welcome you to RSNA 2018, an exciting opportunity for all of us to experience “Tomorrow’s Radiology Today.” The Board and many volunteers have developed an exceptional program. The prevalence of machine learning (ML) and artificial intelligence (AI) applications in health care is evident throughout the program. Special Interest Sessions on Monday will delve into diverse topics including implications of AI for radiology, as well as innovative approaches to precision medicine and the critical role of imaging in addiction treatment. I encourage you to also explore special programs such as the “Country Presents” sessions from the Nordic Countries and Australia and New Zealand to learn about issues our colleagues are tackling around the world.

The popular Fast 5 Session returns to the program featuring five speakers each giving a five-minute presentation on topics selected by popular vote. Don’t miss this fast-paced session on Thursday afternoon in the Arie Crown Theater.

The Virtual Meeting has expanded in offerings and availability, allowing you to pack even more into your RSNA 2018 experience, including more than 200 learning opportunities, both live-streamed and on-demand. The program will be available until April 30, 2019.

Visit the Connections Center to learn more about RSNA, find help navigating the meeting, relax and recharge. The Discovery Theater is back with informative presentations and lively entertainment. Throughout the week the Daily Bulletin will keep you informed of happenings throughout McCormick Place. Access it online at RSNA.org/Bulletin or through the Meeting App to enjoy additional content.

The RSNA Technical Exhibits offer an exceptional opportunity to see the latest developments in imaging technology and network with exhibiting companies. The Machine Learning Showcase highlights the latest advances in ML and AI, including the finalists in RSNA’s Pneumonia Detection ML Challenge. New to the Technical Exhibits is the 3D Printing and Advanced Visualization Showcase, where exhibits and daily presentations will bring you up to speed on this evolving technology. Interventional radiologists will want to visit the new IR Zone in the South Hall.

RSNA continues to lead the field of medical imaging research with the launch of three new online journals planned for 2019. Learn more about this expanded footprint for RSNA Publications by visiting booth #101 in Publishers Row in the South Hall.

I am honored to preside over RSNA 2018 as the president of our Society. I wish you all a wonderful meeting experience.

Sincerely,

Vijay M. Rao, MD
RSNA President

RSNA President Vijay M. Rao, MD, will open RSNA 2018 with her President’s Address, “How Emerging Technology Will Empower Tomorrow’s Radiologists to Provide Better Patient Care.” She will discuss how radiologists can harness the rapid advances in artificial intelligence (AI) and related technologies to improve the quality of care they provide to patients, as well as to increase their stature within the medical community and the personal and professional satisfaction they derive from their work. Below, Dr. Rao shares her thoughts about the changes ahead for today’s radiologists.

Q & A with RSNA President Vijay M. Rao, MD

Daily Bulletin: What are the most impactful technological developments affecting radiology today? Vijay M. Rao, MD: AI and Machine Learning applications are already proving themselves extremely useful in radiology, and we’ve only begun to scratch the surface. These applications provide tools to make us more efficient, freeing up time for radiologists to become more visible and patient-centered. Technological innovations are driving toward making imaging faster, safer, quantitative, precise and affordable. Advances in imaging biomarkers combined with genomic information will allow us to make a more meaningful contribution to personalized medicine in the years to come.

DB: What new skills do radiologists need to develop in order to be successful in the future?

VMR: The time has come for radiologists to position themselves to provide leadership in driving this field to the next level. Radiologists will have to increase their knowledge of all aspects of diseases and data science. As we continue our transition to a value-based practice model, radiologists need to embrace that approach to remain relevant. I also believe that health services research will play a big role. To be successful, radiologists should investigate ways to add value and reduce waste in health care. These topics will continue to be critically important to our field into the future.

DB: What are you most excited about in this year’s annual meeting program?

VMR: We have an outstanding program planned for RSNA 2018, with exciting new research in numerous subspecialties. The amount of high-quality research being conducted and presented is a reminder that radiology leads the way in health care innovation. There are new discoveries in AI and machine learning research every day. This field excites me because these technologies have the potential to expand our diagnostic and therapeutic capabilities in ways that were not possible a decade ago.

DB: How much do you think radiology will have changed 10 years from now?

VMR: It’s difficult to predict the future of a specialty that advances at such a rapid pace, but I believe that over the next decade we will harness the potential of today’s burgeoning AI technology to make radiologists more efficient and quantitative in their practices. By embracing these new developments in our field, 2018 RSNA Scientific Assembly and Annual Meeting Program Dedication

RSNA dedicates the 104th Scientific Assembly and Annual Meeting Program to the memory of two preeminent radiologists, William G. Bradley Jr., MD, PhD, and Alexander R. Margulis, MD.


A distinguished professor emeritus and past chair of the Department of Radiology at the University of California San Diego (UCSD) School of Medicine, Dr. Bradley authored Magnetic Resonance Imaging, the first general textbook in the field of MRI, and published over 200 papers, 54 chapters and 20 additional textbooks.

Dr. Bradley was known for his exuberant personality as well as his solid body of work as a clinician, researcher and leader. As chair of the Department of Radiology at UCSD from 2002-2015, he is credited with building a formidable research program.

Highly recognized for his contributions particularly to MRI research and practice, Dr. Bradley was awarded the gold medals of the RSNA, the American College of Radiology (ACR), the International Society of Magnetic Resonance in Medicine (ISMRM), the American Roentgen Ray Society (ARRS) and the Association of University Radiologists (AUR). A fervent leader in organized radiology, Dr. Bradley served as president of ISMRM and as a member and vice president of the ACR Board of Chancellors. Over the years he also volunteered for the boards of the ARRS, AUR, International Society for Strategic Studies in Radiology and Academy of Radiology Leadership and Management.

Dr. Bradley was a member of the RSNA Research & Education (R&E) Foundation, chairman of RSNA’s R&E Fund Development Committee, and co-chair of the Foundation’s recent Inspire-Innovate-Invest Campaign.

Dr. Bradley died Nov. 20, 2017, in La Jolla, CA.

Alexander R. Margulis, MD (1921-2018)

An internationally renowned educator, researcher and visionary in radiology, Dr. Margulis earned a reputation as a founding father of pediatric and perinatal radiology and touched the lives of countless radiologists and scientists throughout the world.

In 2012, RSNA honored Dr. Margulis by establishing the Alexander Margulis Award recognizing the best original scientific article published each year in Radiology.

Dr. Margulis served as chair of the University of California, San Francisco (UCSF) Department of Radiology for 26 years, from 1963 to 1989. He led the department to international prominence, establishing UCSF as a destination for physicians around the world to learn the latest imaging techniques and technology.

Following his retirement from UCSF, Dr. Margulis was named UCSF associate chancellor and then special consultant to the chancellor. In 2000, he became a clinical professor of radiology at The Weil Institute of Cell and Molecular Biology at New York University School of Medicine. Dr. Margulis died Nov. 28, 2018.
Three New RSNA Journals Coming in 2019!

Radiology

Submissions Now Open:  
Radiology: Artificial Intelligence and Radiology: Cardiothoracic Imaging

Submissions Opening April 2019:  
Radiology: Imaging Cancer

Visit RSNA.org/Journals for more information.

Meet the RSNA Journal Editors in-person at the RSNA Publications booth 1011 in the Technical Exhibit South Hall A.

- Meet Dr. Gary D. Luker, Editor, Radiology: Imaging Cancer, Monday, 10 AM
- Meet Dr. Charles E. Kahn, Editor, Radiology: Artificial Intelligence, Monday, 2 PM
- Meet Dr. Suhny Abbara, Editor, Radiology: Cardiothoracic Imaging, Tuesday, 10 AM
- Meet Dr. Jeffrey Klein, Editor, RadioGraphics, Wednesday, 10 AM
- Meet Dr. David Bluemke, Editor Radiology, Wednesday, 11 AM
Sunday At a Glance

President’s Address
Vijay M. Rao, MD
8:30–10:15
Arie Crown Theater
President’s Address: How Emerging Technology Will Empower Tomorrow’s Radiologists to Provide Better Patient Care
Dr. Rao will discuss how radiologists can harness the rapid advances in artificial intelligence (AI) and related technologies to improve the quality of care they provide to patients, as well as to increase their stature within the medical community and the personal and professional satisfaction they derive from their work.

Annual Oration in Diagnostic Radiology
Michael P. Recht, MD
8:30–10:15
Arie Crown Theater
Artificial Intelligence, Analytics, and Informatics: The Future is Here
Dr. Recht will discuss how radiologists and radiology departments can utilize recent advances in informatics, analytics/business intelligence and artificial intelligence/machine learning to allow radiologists to become more integrated into the clinical care team and more visible and “user-friendly” to referring physicians and our patients.

RSNA Outstanding Educator and Outstanding Researcher Awards Presented Today

RSNA Business Session (Arie Crown Theater)
10:45–12:15
Scientific Paper Sessions
11:30–1:30
Machine Learning Theater Presentations (North Building Hall B)
12:30–1:30
Scientific Poster, Quality Improvement Reports and Education Exhibit Presentations (Learning Center)
1:30–6:00
Interventional Oncology Series: Lung, Kidney and Bone (Room S405AB)

First-Time Attendee Orientation (Discovery Theater)
2:00–3:00
Educational Courses
4:00–5:45
Plenary Session (Arie Crown Theater)
Report of the RSNA Research & Education Foundation
N. Reed Dunnick, MD
Image Interpretation Session

View the full program and add sessions to My Agenda on the RSNA 2018 App or at Meeting.RSNA.org.
Welcome to RSNA 2018 from the RSNA Board of Directors

Welcome to Chicago
we're happy you're here!

Dear Friends:

As Mayor, and on behalf of the City of Chicago, I am pleased to offer warm greetings to all those gathered for the Radiological Society of North America’s 106th Scientific Assembly & Annual Meeting.

Since its establishment, the Radiological Society of North America (RSNA) has worked to advance the knowledge and technology of radiology. Make up of radiologists, medical physicists, and other medical professionals from 136 countries across the world, the Society has more than 54,000 members. RSNA gives physicians the education needed to maintain certification, publishes two top peer-reviewed journals, and develops software solutions, sponsors research, and conducts research to enhance education in developing nations. In addition, through their Research & Education Foundation, RSNA is funding young investigators to ensure the radiology will continue to grow and improve for generations to come.

This year’s meeting brings more than 50,000 radiologists, radiation oncologists, medical physicists, radiologic technologists, and allied healthcare professionals to network, learn, and inspire. With a full schedule of plenary sessions, educational courses, keynote speakers, specialty courses, keynote speakers, the 2018 Machine Learning Showcase, and more than 600 exhibitors, industry professionals will learn and discuss the skills and tools needed to move the radiology industry forward. I commend the Radiological Society of North America for their dedication to education and innovation in radiology.

It is my hope that after learning about and discussing what’s new and changing, you will take the time to explore and take advantage of everything Chicago has to offer. An exciting variety of restaurants, nightlife, great universities and world-class museums, a world-class skyline, incredible lakefront, and historic neighborhoods make Chicago one of the world’s greatest cities.

I hope you have an enjoyable event and wish you the best wishes for much continued success.

Sincerely,

Rahm Emanuel
Mayor

November 23, 2018
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

RSNA.org/Foundation

Always Discover, Always Develop

Be an RSNA Member.

Radiologists look at problems and discover solutions. It’s what we’re good at.
But it takes discipline to keep focused. It takes foresight to understand the solutions to tomorrow’s problems. It takes commitment to develop.
At RSNA, we’re dedicated to helping radiologists do just that.
From the best CME in the industry to the world’s leading annual meeting, your membership means something.
We help you keep developing.

LEARN: free CME, online courses, and webinars and other critical education opportunities that keep you up-to-date with the latest advancements in the field.

EXPAND: free advance standard registration to the RSNA annual meeting, the most-important meeting of radiology professionals, industry leaders and researchers in the world.


Always Discover, Always Develop RSNA.org/Membership

8:30 AM – 4:30 PM CT  |  membership@rsna.org
1-877-RSNA-MEM (776-2636)  |  1-630-571-7873 (outside the U.S. or Canada)
Chicago is RSNA’s Kind of Town

By Jennifer Allyn

Whether this is your third or your thirtieth RSNA annual meeting, you probably have your favorite things to do, see and eat when you are in Chicago.

RSNA polled social media followers to learn more about how attendees spend their down time in Chicago. Some members make it a priority to get out into the city for architecture tours or to visit the world-famous museums. Others make reservations at trendy restaurants or trek to restaurants with local flavor.

No matter how you spend your free time during RSNA, you might find a new favorite among the recommendations from your fellow meeting attendees.

**Eating Well in Chicago**

Chicago offers a wide variety of hometown and ethnic dining options no matter what your budget or taste. Whether it is the latest food critic rave or a restaurant offering comfort food favorites, you are sure to find a meal that satisfies every appetite.

Fatima Mubarak, MD, associate professor and neuroradiologist at Aga Khan University in Karachi, Pakistan, likes to visit Sabri Nihari restaurant on Chicago’s North Side, a family-friendly spot serving Pakistani fare. “I head to Sabri because it has traditional food with a Chicago twist,” Dr. Mubarak said.

Chicago is known for its pizza and you will find restaurants serving up pies with traditional and modern ingredients.

Local radiologist Vahid Yaghmai, MD, vice chair for operations and professor of radiology at Northwestern University in Chicago, recommends several options, including Coalfire Pizza in West Town and Benci in the West Loop.

“At Coalfire Pizza, be sure to try the honey and salami pizza, which is the perfect combination of savory, sweet and spicy,” Dr. Yaghmai said. “Benci makes Roman style pizza at this location, which is the only one outside of Rome. You order your pizza by weight and the ingredients change daily based on local availability and the season.”

“At a sample of deep-dish pizza, Dr. Yaghmai suggests Lou Malnati’s in River North or the Gold Coast. Yaghmai suggests Coalfire Pizza in West Town and Benci in the West Loop.

“Attendants should also consider Tanta Chicago, which offers a modern twist on Peruvian cuisine. I highly recommend ceviche and roast chicken,” Dr. Wood said.

“Those looking for Indonesian and Chinese food should try Imperial Lamian, which is known for their soup dumplings.”

If you are looking for a relaxed breakfast or brunch location, both Dr. Yaghmai and Monica Arzanauskaita, MD, a consultant radiologist at Liverpool Heart and Chest Hospital in the United Kingdom, recommend the courtyard garden of 3 Arts Club Cafe, located in Restoration Hardware on Chicago’s Gold Coast.

When you need a place to debrief at the end of the day, Dr. Yaghmai said The Loyalist in Fulton Market offers small plates and great cocktails, while Dr. Arzanauskaita recommends the Lockwood in the lobby of the Palmer House for drinks. Dr. Wood said that Cindy’s, on south Michigan Avenue, offers one of the best views of the city while you enjoy rooftop dining and cocktails.

Several attended the food at Twin Anchors, a BBQ restaurant that has been a city staple since 1952. Another popular recommendation is the unique dining experience at Oriole in Chicago’s West Loop, which offers an extended tasting menu option.

A restaurant currently the favorite of Chicago food critics is Pacific Standard Time, located in the River North neighborhood. If you are heading to the South Side, try Majani Vegan Restaurant, offering vegan cuisine using ingredients from local gardens. Those looking for a communal restaurant will enjoy the colonial beer hall at The Publican in Fulton Market, where you sit at large tables to enjoy beer, pork and oysters.

**Out and About in Chicago**

When it’s time to take a break from sessions or stretch your legs and mind in a different direction, Chicago offers a variety of options.

Dr. Arzanauskaita highly recommends the walking tour available through the Chicago Architecture Center.

“Last year, I did the Art Deco Sky scraper tour in the Loop and I am hooked,” Dr. Arzanauskaita said. “Read the tour descriptions well and select a tour that matches your tastes and expectations. Also, buy your tickets in advance because there may be fewer tour slots just before or after the meeting each day.”

If the weather permits, Dr. Yaghmai also recommends the boat tour from the Chicago Architecture Center for a detailed history of Chicago and its skyscrapers. Navy Pier is also a favorite spot for exceptional views of the city, unique sculptures and the Centennial Wheel, a 196-foot-tall Ferris wheel.

Chicago museums cover wide-ranging topics, whether your interest is science, culture or history. (See Sidebar on Chicago museums and special exhibits available during RSNA 2018 or visit choonocheckicago.org to locate other Chicago-based activities.)

Dr. Wood recommends a visit to the Art Institute of Chicago, including its modern wing, and the Museum of Science and Industry.

“If you still have a curious little kid in you, or if you brought your kids to the meeting, a great way to spend the day is to visit the Museum of Science and Industry,” Dr. Wood said. “There are numerous interactive exhibits and if you’re feeling in the Christmas spirit, the museum displays decorated trees in its ‘Christmas Around the World’ exhibit.”

If you’re a fan of blues or jazz music, head to Kingston Mines, B.L.U.E.S or the Green Mill. Dr. Arzanauskaita recommends that first-time club visitors head to Buddy Guy’s Legends, a classic blues club in downtown Chicago where Buddy Guy appears on stage some evenings.

Chicago is also home to The Second City, a comedy and improv theater that launched the careers of Dan Akroyd, Stephen Colbert and Tina Fey, among many others.

Dr. Mubarak recommends visiting Water Tower Place on Michigan Avenue for more than 100 shops featuring uniquely Chicago items.

A walk through the Lincoln Park Zoo, which is free to visitors, can help clear your head after participating in numerous sessions. A newer and closer walk is the renovated Chicago Riverwalk in the Loop, which offers unique views of the city.

No matter how you spend your free time during the annual meeting, make sure you get out to enjoy some of what Chicago has to offer, even in cooler weather.

Taking some time during the busy annual meeting to step away and enjoy a solitary walk through a museum or meet your colleagues and friends for dinner can increase your satisfaction of the myriad educational experiences available during RSNA,” Dr. Yaghmai said.

Local hospitality experts will recommend restaurants and city attractions, RSNA recommendations are always on the list. Some members enjoy the Art Institute’s “A Sunday on La Grande Jatte,” Pablo Picasso’s “The Old Guitarist,” Edward Hopper’s “Nighthawks” and Grant Wood’s “American Gothic.”

**Places to Visit in Chicago**

Along with special exhibits and activities at Chicago-area museums, RSNA 2018 attendees might consider exploring several unique neighborhoods that are close to McCormick Place. Here are a few highlights:

**Neighborhoods**

- **Chinatown**

  A quick cab or rideshare drive down Cermak Avenue gets you within walking distance of more than 45 restaurants and unique gift shops.

- **Greektown**

  A Near West Side community along South Halsted Street that includes lively Greek tavernas, restaurants and traditional pastry shops.

- **Little Italy**

  If you are looking for Italian food and specialty shops, head to the far west side of Chicago along West Taylor Street.

**Museums**

ART INSTITUTE OF CHICAGO

www.artic.edu

Don’t miss one of the oldest and largest art museums in the U.S., home to more than 300,000 works of art, including iconic pieces such as Georges Seurat’s “A Sunday on La Grande Jatte,” Pablo Picasso’s “The Old Guitarist,” Edward Hopper’s “Nighthawks” and Grant Wood’s “American Gothic.”

CHICAGO HISTORY MUSEUM

www.chicagohistory.org

Founded in 1863, the Chicago History Museum is the city’s oldest cultural institution and home to millions of historical objects, images and documents.

- Special Exhibit – “Amplified: Chicago Blues”

MUSEUM OF CONTEMPORARY ART CHICAGO

www.maco.chicago.org

One of the world’s largest contemporary art venues, housing thousands of objects of post-World War II visual art.

FIELD MUSEUM

www.fieldmuseum.org

Natural history museum open since 1894 that is home to more than 40 million natural exhibits, cultural artifacts and specimens, including Maximo, the dinosaur powering over one of the main entrance halls.

- Special Exhibit – “Egypt 3D: Secrets of the Mummies”

MUSEUM OF SCIENCE & INDUSTRY

www.msichicago.org

One of the world’s largest science museums with over 400,000 square feet of hands-on exhibits including a full-size replica coal mine, the German submarine U-505 captured during World War II, a 3,500-square-foot model railroad, the command module of Apollo 8 and the first diesel-powered streamlined stainless-steel passenger train.

- Special Exhibit – “The Science Behind Pixar”

- Special Exhibit – “Christmas Around the World”

**Get More Daily Bulletin Online**

Stay connected to all things RSNA 2018 through the print and online versions of the Daily Bulletin, the official newspaper of the annual meeting. The digital Daily Bulletin is available on the RSNA 2018 meeting app and online at RSNA.org/Bulletin. Look for articles available ahead of print, exclusive online articles, videos interviews with presenters and interactive quizzes and polls. On Friday a special online-only edition of Daily Bulletin will cover meeting highlights from Thursday.

Get alerts on Daily Bulletin stories through social media at #RSNA18 on Facebook (Facebook.com/RSNAfan), Instagram (RSNAGram) or Twitter (@RSNA).

**Physics Quiz**

Which pulse sequence category is preferable when imaging heart valves?

[Answer on page 12A.]
WHATEVER THE BIG IDEA?
YOU TELL US.

Be a Presenter at RSNA 2019!

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 2018 RSNA scientific presentation may receive a $1,000 prize and certificate.

VISIT RSNA.ORG/ABSTRACTS FOR COMPLETE GUIDELINES.

Submit Online
beginning January 2019 at RSNA.org/Abstracts through Wednesday, April 10, 2019 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.
The RSNA Connections Center: Your Source for Information and Entertainment

Located in the Lakeside Center East, on Level 3, the RSNA Connections Center is the place to learn more about RSNA, experience popular entertainment or enjoy a break from the meeting. Whether you have questions about your membership, are looking to make a donation to support Research & Education (R&E) grants or need a place to charge your phone, the Connections Center has you covered.

Digital Support
RSNA technology experts are available to provide one-on-one digital help with Meeting Central, the RSNA Meeting App or the Virtual Meeting.

Information Desk
Visit RSNA staff at the Information Desk for answers to all your questions about RSNA 2018.

Membership & Resources
Get answers to all your membership questions, including how to make the most of your membership benefits, journal subscriptions, Career Connect, the RSNA Online Learning Center, Radiology-Info.org®, Radiology Cares® and Image Wisely®.

You can also select your assigned ribbon(s) at the self-serve ribbon wall.

Staff onsite can assist with your ribbon selection.

Learn more about RSNA services including RSNA’s international programs such as the the Derek Harwood-Nash International Fellowship and the Introduction to Research for International Young Academics.

R&E Foundation Donor Suite
The Research and Education (R&E) Foundation Donors Suite offers light refreshments, computers, a coat room and comfortable furniture exclusively for donors who contribute $300 or more to the Foundation.

Stop by to learn more about R&E Foundation activities, including the new R&E Education Grants. Read about current grant and award recipients, as well as individual, private practice and corporate donors who provide funding for grants.

RSNA Shop
If you’re looking for RSNA-branded merchandise to take home, the RSNA Shop is your go-to resource. This year, you’ll find holiday ornaments, water bottles, scarves, ties, luggage tags, T-shirts and fleece pullovers, along with the popular plush animals.

Discovery Theater Features Live Entertainment, RSNA Programming

Located within the Connections Center, Discovery Theater features unique discussions and presentations about RSNA programs and research from the field, along with special musical and performance acts. Enjoy casual seating options where you can relax and recharge, both your body and your phone, while listening to music, watching a presentation or networking with colleagues.

The highly-anticipated Diagnosis Live™ Resident Competition will be held on Monday at 2 p.m. Fourteen residency programs will go head-to-head for the ultimate residency program bragging rights.

Visit Meeting Central at Meeting.RSNA.org for the full schedule and to add events to My Agenda.

Discovery Theater Events Include:

SUNDAY, NOV. 25
• Navigating RSNA/Chicago (en français), 9 a.m.
• Navigating RSNA/Chicago (en español), 9:35 a.m.
• Navigating RSNA/Chicago (em português), 10:10 a.m.
• The Craig Rossouw Latin Jazz Project (jazz ensemble), 11:45 a.m. – 1:30 p.m.
• First-Time Attendee Orientation, 2 – 3 p.m.
• Navigating RSNA on a Dime, 3:15 p.m.

MONDAY, NOV. 26
• RSNA is Publishing More! Three New Journals Launching in 2019, 9 a.m.
• Radiology Features for Readers, 9:35 a.m.
• RSNA Artificial Intelligence and Machine Learning Initiatives, 10:10 a.m.
• Doc Mintz’s Vat of Chocolate (jazz ensemble), 12 – 1 p.m.
• How to Make Radiology More Patient-Centered, 3:30 p.m.

TUESDAY, NOV. 27
• Pay it Forward: An R&E Education Scholar Grant Case Study, 9:35 a.m.
• Sean Boll (mentalist and comedic entertainer), 12 – 1 p.m.
• Who Put a Gorilla in My Lung CT and Why? Medical Image Perception Research at RSNA, 1:45 p.m.
• ABR Online Longitudinal Assessment (OLA): A Better Way to Assess Your Knowledge, 2 p.m.
• Chicago Kingsnakes (Chicago blues band), 3:30 – 4:30 p.m.

WEDNESDAY, NOV. 28
• 3D Printing in Radiology: What We Have Learned and Where We Are Going, 9:35 a.m.
• RSNA Research and Workshops, 10:15 a.m.
• Kaleidoscope Eyes (Beatles tribute band), 12 – 1:30 p.m.

THURSDAY, NOV. 29
• RSNA Diagnosis Live™ Demonstration, 10:30 a.m.
• The Run Burgundy (1960-80s tribute band), 12 – 1:30 p.m.

RSNA’s 5k Fun Run to Support Radiology Research

Join your colleagues and walk, run or jog during the 2018 5k Fun Run, kicking off at DuSable Harbor Tuesday, Nov. 27, at 6:30 a.m.

The annual 5k Fun Run benefits the RSNA Research & Education (R&E) Foundation through the fully tax-deductible $40 registration donation. Runners will receive a commemorative T-shirt while supplies last.

Register at the Fun Run desk (Grand Concourse, level 2.5 of McCormick Place) Sunday and Monday between 7:30 a.m. and 5 p.m.

Pre-registered runners should visit the desk to pick up their bibs and T-shirts.

Last year, 766 registrants supported the R&E Foundation through the 5k Fun Run. This year’s Fun Run is sponsored by Konica Minolta Healthcare.
Investigate the Future of Radiology in the Technical Exhibit Halls

Visit with more than 700 leading manufacturers, suppliers and innovators of medical information and technology and discover the latest medical imaging products and support services designed to streamline operations and enhance patient care. Shop and compare equipment supplies, devices and software in two halls.

3D Printing & Advanced Visualization Showcase
Sponsored by TeraRecon
The new 3D Printing & Advanced Visualization Showcase offers attendees the opportunity to see and interact with the latest products in 3D printing, advanced visualization, holography and virtual reality. The 3D Showcase Theater offers daily presentations. Check Meeting.RSNA.org or the RSNA 2018 Meeting App for times. The RSNA’s 3D Printing Special Interest Group will present the latest research in 3D printing for medical applications on Sunday to Wednesday from 2 p.m. to 3 p.m. The showcase is located in the South Hall A.

IR Zone
Located in the South Hall adjacent to the First-Time Exhibitor Pavilion, the IR Zone features companies focused on the latest product advancements in interventional radiology.

Machine Learning Showcase
Sponsored by Arterys and Google Cloud
The Machine Learning Showcase returns as an expanded centerpiece of the North Hall. Interact with more than 80 companies offering information and innovations in machine learning and artificial intelligence software and products. Presentations will take place each day from 11 a.m. to 2 p.m. The showcase is located in the North Hall B.

First-Time Exhibitor Pavilion
First-time exhibitors demonstrating new products and services will be featured in a showcase area inside the South Hall A. Other first-time exhibitors located throughout the exhibit halls will be identified with a First-Time Exhibitor logo.

Start-up Showcase
Visit the Start-up Showcase in the South Hall A to explore the latest in medical imaging and connect with emerging companies positioned to bring new products and services to market.

Vendor Workshops
Vendors provide hands-on tutorials of commercial software systems in a classroom setting in both North Hall B and South Hall A.

International Pavilions
Exhibitors from several countries are on display at RSNA 2018. This year, China, France, Germany, Korea and Canada (Ontario) have dedicated pavilions to showcase technology and services from their countries.

Publisher’s Row
Visit top medical publishers and the RSNA Publications booth to learn more about the RSNA journal-related products and services and meet the editors, located in the South Hall A.

Meet the Editors:
• Gary D. Luker, MD, Editor, Radiology: Imaging Cancer, Monday, 10 a.m.
• Charles E. Kahn, MD, Editor, Radiology: Artificial Intelligence, Monday, 2 p.m.
• Suhny Abbara, MD, Editor, Radiology: Cardiothoracic Imaging, Tuesday, 10 a.m.
• Jeffrey S. Klein, MD, Editor, Radiology: Graphics, Wednesday, 10 a.m.
• David A. Bluemke, MD, PhD, Editor, Radiology, Wednesday, 11 a.m.

Q & A: RSNA President Vijay M. Rao, MD
Continued from Page 1A
we can truly become patient-centered and thrive as the value-based health care model evolves.

Dr. Rao has served on the RSNA Board of Directors since 2011. She is the David C. Levin Professor and Chair of Radiology at Sidney Kimmel Medical College of Thomas Jefferson University and senior vice president and chair of Enterprise Radiology and Imaging at Jefferson Health in Philadelphia. Recognized as one of the leading experts on imaging of the head and neck, Dr. Rao has served as president of the American Society of Head and Neck Radiology, the Association of Program Directors in Radiology (APDR) and the American Association for Women Radiologists (AAWR). She serves as a trustee of the RSNA R&E Foundation and is also a member of the board of the Academy for Radiology & Biomedical Imaging Research and the Pennsylvania Radiologic Society.

Dr. Rao received the APDR Achievement Award and the Distinguished Radiologist award from the American Association of Radiologists of Indian Origin. She was awarded gold medals by the Association of University Radiologists and the Asian Oceanic Society of Radiology. She received the AAWR Marie Carie Award. She has been presented honorary membership in the Israel Society of Radiology and the French Society of Radiology (SFR) and she was also awarded the SFR medal of honor.

Explore Thousands of Posters, Exhibits in the Learning Center
Located in Lakeside Center East, Level 3, the Learning Center houses thousands of educational exhibits and scientific 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.

Artificial Intelligence (AI) Community
The AI Community will feature demonstrations, proffered posters and exhibits highlighting the applications of machine learning and AI for medical imaging, including how these emerging tools and methodologies may improve diagnostic care.

Crowds Cure Cancer: Help Annotate Data from the Cancer Imaging Archive
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 complete the project will receive an RSNA ribbon. The Crowds Cure Cancer booth will be open all day throughout the week.

NCl Image Perception Lab
Researchers supported by the National Cancer Institute (NCI) will conduct studies on radiologic image perception at RSNA 2018. Attendees can learn about this important area of research, and if they wish, participate in the studies as volunteers.

Deep Learning Classroom
NVIDIA Deep Learning Institute presents a weeklong RSNA Deep Learning Classroom, to include nearly two-dozen 90-minute courses, including introductory courses and specialty topics. This is a hands-on opportunity for practicing radiologists to understand how AI is clinically relevant to radiology and for those with an understanding of the technology to discover deeper insights. Bring your laptop to work with machine learning tools, write algorithms and improve your understanding of this growing technology.
2018 Outstanding Educator, Researcher Honored Today

RSNA will honor David M. Yousem, MD, MBA, and Carolyn C. Meltzer, MD, during the RSNA 2018 Opening Session beginning at 8:30 a.m. in the Arie Crown Theater.

Outstanding Educator

World-renowned neuroradiologist, David M. Yousem, MD, MBA, is a respected professor, author and researcher whose visionary approach to teaching has led to a new generation of technology-driven education models.

Dr. Yousem is a professor and former director of neuroradiology at the Johns Hopkins Medical Institution, Baltimore, MD. He also serves as vice chair of program development for the Russell H. Morgan Department of Radiology and Radiological Sciences and as associate dean of professional development at the Johns Hopkins University School of Medicine.

After earning his medical degree in 1983 at the University of Michigan, Dr. Yousem completed his residency and radiology fellowship at Johns Hopkins Hospital. He then completed a neuroradiology fellowship at the University of Pennsylvania, Philadelphia, where he began his career as an assistant professor of radiology under the tutelage of Robert I. Grossman, MD, an assistant professor of radiology under Art L. Amplatz, MD, and as associate chair for professional development at the Johns Hopkins Hospital later that year.

Dr. Yousem earned his Business of Medicine MBA from the Johns Hopkins University later that year.

Outstanding Researcher

An internationally recognized neuroradiologist and nuclear physician with a special interest in late-life neuropsychiatric disorders, Carolyn C. Meltzer, MD, has significantly influenced the field with her research work.

Dr. Meltzer is the William P. Timmie professor and chair of radiology and imaging sciences and associate dean for research at Emory University School of Medicine, Atlanta. She also serves as director of the Innovation Catalyst Program for the Georgia Clinical and Translational Science Alliance. She established the Emory Center for Systems Imaging to broadly support the advance of imaging capabilities in basic and translational research.

Having maintained 22 years of National Institutes of Health (NIH) funding as principal or co-investigator for research into the study and detection of aging-related brain conditions and diseases and the development and validation of imaging technology, Dr. Meltzer has published more than 200 papers.

Dr. Meltzer is an advocate for thoughtful professional development and individually mentored more than 60 pre- and post-doctoral trainees and junior faculty. She is a highly sought-after national and international lecturer on brain disorders and clinical neuroscience as well as novel research program development and biomedical research advocacy.

The RSNA 2018 Virtual Meeting

Experience Tomorrow’s Radiology Today From Anywhere

The RSNA 2018 Virtual Meeting allows attendees to access a wide array of educational programming, scientific presentations, educational exhibits, digital scientific posters and more both during and after the meeting.

With more than 200 live-streamed and on-demand courses, you can maximize your meeting experience when and where you want on your schedule.

The Virtual Meeting is available 24 hours a day beginning at 8 a.m. Central Time (CT) on Saturday, Nov. 24, with sessions beginning that afternoon. Live programming will run simultaneous to the annual meeting. Access to Virtual Meeting programming will remain on demand through April 30, 2019, at 4 p.m. (CT).

The RSNA 2018 Virtual Meeting offers CME credit for all live-streamed and Cases of the Day with a course evaluation for live sessions or submission of a correct diagnoses for Cases of the Day. Select on-demand sessions offer CME upon course evaluation.

Engage with other professionals around the world by accessing the Virtual Community.

Flexible pricing allows you to attend the Virtual Meeting in conjunction with the Live Meeting or as a stand-alone option. Retired RSNA members receive free access to the Virtual Meeting.

For more information visit RSNA.org/Virtual to learn more.

Sunday’s Physics Tip

Protocol optimization should be based on image quality first. While low dose is very important, the image must have sufficient quality for confident diagnosis.

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Presentation
AI-215-SQ-TUSI1 Station #1
11/27 Tue 12:45 - 13:15
Presenters from Both Sides of the Atlantic Tackle Sports Imaging

By Richard Dargan

For the first time at the RSNA Annual Meeting, musculoskeletal (MSK) imaging experts from Europe and the U.S. will join to present a day-long symposium on sports imaging, a key component of the fast-growing realm of sports medicine. The symposium is sponsored by RSNA and the European Society of Radiology.

Imaging plays a vital role in assessing sports-related injuries and guiding treatment, including surgery. The practice has assumed a higher profile amid a surge in the number of operations and procedures. A new category of sports imaging has emerged, particularly among children and chronic, overuse injuries. The spike in related injuries: acute, traumatic injuries and chronic, overuse injuries. The spike in related injuries is particularly noticeable among children and teens.

In response, moderators Laura Bancroft, MD, FACR, chief of musculoskeletal imaging at Florida Hospital in Orlando, and Andrew Grainger, MRCP, consultant musculoskeletal radiologist at Leeds Teaching Hospitals, U.K., have brought together experts from both sides of the Atlantic to share expertise on sports injuries.

Popular sports in Europe, like rugby and soccer, result in some different injury patterns than those stemming from U.S. sports like baseball and football. Just as the type of injury varies, so does the range of techniques in which specialists are experienced.

“In Europe, radiologists have a longer-standing expertise in musculoskeletal sonography, which is extremely useful in various clinical scenarios,” said Dr. Bancroft, who is also a clinical professor of radiology at Florida State University College of Medicine. “U.S. radiologists tend to use relatively more MRI, which is complementary to sonography and is a great overall tool for evaluating musculoskeletal injuries. Newer, better and faster MRI sequences are constantly being developed to evaluate cartilage and joint pathology.”

Symposium Covers Four Topics

The symposium is structured around four topic areas: Upper extremity sports injuries, lower extremity sports injuries, musculoskeletal (MSK) intervention procedures and postoperative imaging of sports injuries. Presentations will be given by parallel expert MSK radiologists from the U.S. and Europe.

Early sessions focus on upper extremity sports injuries, beginning with Lynne S. Steinbach, MD, professor emeritus of clinical radiology and orthopedic surgery, University of California in San Francisco, who will present a session on shoulder injuries to the throwing athlete.

For the session on lower-extremity injuries, Theodore T. Miller, MD, professor of radiology at Weill Cornell Medicine of Cornell University in New York City, will discuss sports-related injuries of the knee and what orthopedic surgeons want to know from imaging reports.

“If an orthopedic surgeon is referring a patient for an MRI with suspected anterior cruciate ligament tear, interpreting radiologists must recognize other potential associated injury patterns and specifically address them in their reports,” Dr. Bancroft said.

In the afternoon, Philippe A. Peetrons, MD, head of medical imaging at Iris Sud Hospital in Brussels, Belgium, will discuss the benefits and pitfalls of diagnostic and therapeutic injections in athletes. Dr. Bancroft will close with a discussion on postoperative shoulder MRI after instability surgery, while Claudia Weidekamm, MD, head of musculoskeletal radiology at the University Hospital of Vienna, will discuss ACL reconstruction and cartilage repair.

Each session will be followed by an interactive case discussion, with involvement of RSNA members throughout the world. “This course is designed for radiologists with different levels of expertise, from those who routinely read musculoskeletal images to trainees with developing experience,” Dr. Bancroft said.

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Radiologists Take Larger Role in Imaging Addiction

By Mike Bassett

While imaging has played a role in understanding the behaviors of addiction, it has mainly been performed by researchers in psychiatry and psychology who study addiction, according to researcher Jody L. Tanabe, MD, of the Mayo Clinic in Rochester, MN. Yet, it is becoming increasingly important for radiologists to understand the science of imaging as it relates to studying addiction, said Dr. Tanabe, a professor in the departments of radiology and psychiatry at the University of Colorado School of Medicine in Denver. That is one of her goals in moderating a Special Interest Session at RSNA 2018, “Imaging Cognition 2018: Addiction,” which will be co-modерated by Dr. Tanabe, Dr. David B. Hackney, MD, of Beth Israel Deaconess Medical Center and also assistant dean of faculty and professor of radiology at Harvard Medical School.

In the first of four presentations, Diana M. Martinez, MD, an associate professor of psychiatry at the Columbia University, will give a brief overview of the problem of addiction as understood today, and will follow with a discussion about the role of PET as a tool in investigating addiction.

“One take-away is that if we can map the circuit underlying motivated behaviors in addiction, then we are one step closer to modulating that maladaptive behavior,” Dr. Tanabe said. In her presentation, Dr. Tanabe will also discuss the role of MR spectroscopy (MRS) findings in craving and alcohol. He will review how the reward system homeostasis is disrupted in addiction using alcoholism as an example. Through a review of MRS studies of alcoholism, the session will explore the metabolic abnormalities in craving.

“Quite a bit is known about the reward system and how drugs usurp the reward system in the brain. There is similarity between the reward system and brain circuitry of craving,” Dr. Tanabe said, adding that craving is a core aspect of substance abuse.

Dr. Tanabe’s talk will focus on how, in the future, imaging might even be used in the clinic to target areas for neuromodulatory treatment — such as deep brain stimulation or transcranial magnetic stimulation — “to treat or to alter the circuits and hopefully have an effect on addiction, and to do so by possibly reducing craving.”

Dr. Tanabe pointed to movement disorders such as Parkinson’s disease as an analogy to the potential role imaging can play when it comes to addiction. While radiologists play only a small role in the diagnosis of Parkinson’s disease, she noted that imaging is now a clinical standard used to treat a subset of those patients through methods such as deep brain stimulation.

“One take-away is that if we can map the circuit underlyng motivated behaviors in addiction, then we are one step closer to modulating that maladaptive behavior,” Dr. Tanabe said.

“We know a lot about the molecular basis for substance abuse,” she added. “But I want the audience to get excited about the fact that it is really important for radiologists to understand how we might possibly use imaging in the future to treat substance abuse.”

Addiction Focus of RSNA Special Interest Session
The RSNA 2018 Special Interest Session, “Imaging Cognition 2018: Addiction,” will be held on Monday, Nov. 26th, 4:30-6 P.M. | SPS12 | E353C
Session Moderators: David B. Hackney, MD and Jody L. Tanabe, MD

• Addiction in America 2018
  Diana M. Martinez, MD

• PET as a Tool in Investigating Addiction
  Diana M. Martinez, MD

• MRS in Addiction
  Jody L. Tanabe, MD

• MRS in Craving with a Focus on Alcoholism
  John D. Port, MD, PhD

• Panel Discussion
  David B. Hackney, MD
  Jody L. Tanabe, MD

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Physics Quiz

[Question on page 6A.]

A Spoiled gradient will generally show less artifact when imaging implants if rapid imaging is required (such as in the heart).

Special Recognition for In-Kind Support
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Plug Into 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 2018 experience.

Online Resources

Meeting Central
Optimized for tablets and mobile devices, the Meeting Central site at Meeting.RSNA.org is an essential resource for navigating RSNA 2018. Explore a host of valuable information, including:

• RSNA Meeting Program — Browse the listings of educational courses, scientific presentations, and more. Search for courses, sessions, and events by keyword, title or name of presenter, using helpful filters by date, session type and sub-specialty.

• Technical exhibitors list — Learn about the companies unveiling the latest equipment and technology. Search the exhibitor listing by product category or name to add companies to your agenda. You can also schedule an appointment with select 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 calendar and stay organized with a handy schedule 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 2018 Meeting App
Download the RSNA 2018 Meeting App for iPhone, iPad and Android smartphones to access and explore the Meeting Program even when you are offline. Browse the technical exhibitor list, access maps to navigate McCormick Place and customize your daily meeting schedule with My Agenda.

Available via the App Store and Google Play, the RSNA 2018 Meeting App is sponsored by Google Cloud.

Digital Support
Visit the Digital Support team in the Connections Center, Lakeside Center East, to receive one-on-one digital help with Meeting Central, Virtual Meeting, My Agenda, Credit Eval and Diagnostic Live or the RSNA 2018 Meeting App. RSNA staff will also assist with any mobile connectivity issues, along with iOS or Android questions.

Internet Stations
Computers will be available at Internet Stations throughout McCormick Place for use in accessing Meeting Central and Credit Eval.

Free Wi-Fi
Free wireless connectivity is available throughout McCormick Place. Note: 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.

2018 RSNA Scientific Assembly and Annual Meeting Program Dedication
CONTINUED FROM PAGE 1A

Cornell Medical College in New York, where he taught until the time of his passing.

Dr. Margulis was a co-founder of the Society of Abdominal Radiology, the International Society of Magnetic Resonance in Medicine and the International Society for Strategic Studies in Radiology. He served as president of the Association of University Radiologists, the Society of Chairmen of Academic Radiology Departments and the California Academy of Medicine.

Dr. Margulis presented the RSNA Annual Oration in Diagnostic Radiology in 1971 and was honored with an RSNA Gold Medal in 1983. He received the 1989 J. Allyn Taylor American College Radiology award— as we know it. Check out this year’s roster of popular education — and the annual meeting experience.

American College Radiology named Dr. Margulis the 2013 Radiology Leadership Institute Leadership Luminary Award. In 2014, he was appointed to the rank of Chevalier of the French Legion of Honor by the President of France.

Dr. Margulis died Sept. 7, in New York.

2018 Experience

2018 experience.

Continuing Education Credits Available

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

RSNA designates this live activity for a maximum of 90.25 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. As the meeting approaches, RSNA will send information on how to claim CME instantly from the courses attendees take.

The Commission on Accreditation of Medical Physics Education Programs (CAMPEP) has approved the direct transfer of 45 ACR1 Category 1 Credits™ to Medical Physics Education Programs (MPCEP) on a credit-for-credit basis for medical physicists. RSNA is an American Registry of Radiologic Technologists (ARRT)-approved Recognized Continuing Education Evaluation Mechanism Plus (RCEEM+) and will provide Category A+/A continuing education credits for radiologic technologists and radiologist assistants.

Credit Eval for Course Evaluations and CME Credits
Click My Agenda to access Credit Eval to evaluate RSNA 2018 courses and claim credits online via your laptop or mobile device, or at any Internet Station in McCormick Place.

You can begin your evaluations as early as 10 minutes after courses start, claim your credits onsite and leave the annual meeting with printed certificates. You will also receive a link via email to claim your credit electronically. Your credits will be automatically added to the member’s RSNA CME repository. After the meeting, you may evaluate courses and claim credit through the evaluation deadline, which is one week after the end of RSNA 2018.

Assistance is available at the Digital Support desk in the Connections Center.

Self-Assessment Modules (SAMs)

This year, 34 courses offered by RSNA have been approved for Self-Assessment Modules (SAMs).

These RSNA courses have been qualified by the American Board of Radiology (ABR) in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification (MOC) program. Each RSNA in-person SAM is available for up to 1.50 SAM credits and 1.50 AMA PRA Category 1 Credits™.

Note: All courses designated for SAM credit at RSNA 2018 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. All SAM course credit from RSNA 2018 must be claimed before June 1, 2019.

For more information about SAMs, visit the Information Desk in the Learning Center or contact eval@rsna.org

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Your badge contains beacon technology to verify your attendance, simplify the CME process and permit RSNA to gather aggregate data. RSNA will never share, rent or sell your personally identifiable information. Visit registration for assistance with your name badge.

No Photos, Recordings During Sessions
No photography or video recording is permitted in meeting rooms. Please silence your phones during sessions.

RSNA Photography
RSNA will be taking photographs and recording video throughout McCormick Place. By registering, you acknowledge the possibility of being photographed or filmed and give RSNA consent to use your image for promotional purposes. Email privacy@rsna.org with questions.
Country Presents Sessions Feature Australia, New Zealand and The Nordic Countries

By Mike Bassett

This year RSNA honors two multinational radiology associations with its “Country Presents” series: The Royal Australian and New Zealand College of Radiologists (RANZCR), and the Nordic Society of Medical Radiology, which comprises the societies of medical radiology in Denmark, Finland, Iceland, Norway and Sweden.

Australia and New Zealand Look at the Expanding Role of Interventional Radiology

The RSNA 2018 session, “Australia and New Zealand Present: Clinical Radiology and Radiation Oncology,” held on Monday, Nov. 26, will be highlighted by a discussion on the close relationship between radiation oncology and interventional oncology.

“The treatment of malignant disease has for many years been managed by a combination of surgery, chemotherapy and radiation oncology, but interventional oncology has rapidly expanded over the past few decades and many now consider this discipline to represent a ‘fourth pillar of oncology,’” said John Slavotinek, MBBS, Dean, Faculty of Clinical Radiology, RANZCR.

“Interventional oncology uses image guidance to deliver appropriate and minimally invasive therapies to oncology patients and with radiation oncology, shares imaging guidance as an integral part of patient treatment,” he said, adding that since radiology and radiation oncology also represent sister disciplines, “close integration and collaboration between the two are important.”

The presentation, “Radiation Oncology and Interventional Oncology: A Marriage Made in Heaven,” will be given by Lizbeth Kenny, MD, senior radiation oncologist at the Royal Brisbane and Women’s Hospital, Queensland, Australia.

Another presentation will look specifically at interventional radiology in Australia and New Zealand.

The regulatory and health care environments in Australia and New Zealand have facilitated the conduct of leading-edge research in the area of interventional radiology, Dr. Slavotinek said. This presentation, “A Journey in Vascular Interventional Research: Lessons Learnt and Future Prospects,” will highlight the contributions made by the two countries to the development of interventional radiology, particularly as they relate to “first in man” trials.

Other presentations will include discussions on the role of iron in neurodegenerative diseases in Australia and New Zealand.

The Nordic Countries Focus on Education and Training

The RSNA 2018 session “The Nordic Countries Present: Radiology the Scandinavian Way, Future Potentials,” held on Tuesday, Nov. 27, will focus on how current and future radiologists are being educated and trained.

According to Birthe H. Bech, MD, president of the Nordic Society of Medical Radiology, a radiologist shortage in the Nordic countries (which mirrors shortages elsewhere in Europe) has led to an increased focus on the importance of educating and training. For example, Dr. Bech said, “we are introducing simulation training here and we think it will give us a great opportunity to educate more radiologists.”

One of the presentations, “Education of Future Radiologists with ‘Simulation-Based Training: Is This the Way to Go?’” will look at the present status of simulation training in ultrasound and how a simulation-based curriculum could be structured and implemented.

In another presentation, “Healthcare and Radiology in the Nordic Countries,” Marianna Gardarsdottir, MD, will provide a broad look at medical education, training and healthcare in the Nordic Countries, while in the presentation, “Future Challenges in Nordic Education in Emergency Radiology,” Seppo Koskinen, MD, PhD, will focus more specifically on the status of and future challenges related to emergency radiology training.

Ilse Vejborg, MD, will speak on, “Mammography Screening in Denmark: Implementation of a Population Based Service Cancer Screening Program, Quality Assurance, Results, and Future Potentials.”

“This will have a particular focus on quality assurance, which is very important in mammography screening,” said Dr. Bech, who will wrap up “The Nordic Countries Present” session with a look at next year’s Nordic Congress in Radiology, which will be held May 22–24, 2019, in Copenhagen.
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