RSNA 2017
The Official Newspaper of the RSNA Annual Meeting • online at rsna.org/bulletin

Q&A With RSNA President Richard L. Ehman, MD
In his President’s Address, “Is it Time to Reinvent Radiology?” at 8:30 a.m., Sunday, Nov. 26, in the Arie Crown Theater, RSNA President Richard L. Ehman, MD, will discuss the role of radiology in leading and embracing the extraordinary period of change underway in the specialty. Below, Dr. Ehman offers a preview of his presentation.

Daily Bulletin: Are you optimistic about the future of radiology?
Dr. Ehman: I am awed by the amazing opportunities that lie ahead in our field. Advances in medical imaging technology over the last decades have changed medicine so profoundly that most physicians could not imagine taking care of patients without them. And the pace of innovation continues.

DB: What do you feel is the most important opportunity in radiology today?
RLE: We have a great opportunity to now focus our innovation on optimizing the value of our services in radiology. In medical imaging, the value of a diagnostic procedure can be considered to be proportional to metrics for diagnostic performance, quality, safety and access, and inversely related to cost. Extraordinary innovations in medical imaging science and technology have steadily advanced value by escalating the diagnostic performance of our services, but perhaps we have not applied the level of creativity and innovation to minimizing cost in the denominator of the value equation.

DB: Do you feel there is the most advanced and powerful capabilities are rife for disruption and that the radiology community should lead in this regard rather than stand at the sidelines.

DB: How will innovation and invention continue to define radiology?
RLE: Radiology originated with a singular discovery and invention by Wilhelm Roentgen 122 years ago, and most of the major advances in our field since then have been the product of invention. Over the years, innovation in radiology has usually focused on addressing very practical problems, and the resulting solutions have often been translated to improve patient care with amazing speed.

DB: What role does collaboration play in the future of radiology?
RLE: The extraordinary advances in medical imaging technology have often been the product of unique multidisciplinary efforts, harnessing biomedical science with physical science and engineering. Radiology should continue to embrace the collaborations that created our field in the first place in order to expand our ability to employ our most powerful technologies to serve our patients.

RSNA welcomes Roderic I. Pettigrew, PhD, MD, and Elias A. Zerhouni, MD, to the Arie Crown Theater today to present lectures as part of the RSNA 2017 Opening Session, which begins at 8:30 a.m.

Pettigrew, Zerhouni to Discuss the Future of Biomedical Imaging
Dr. Pettigrew’s presentation, “Tomorrow’s Radiology,” will focus on the need for health longevity as the overarching goal of the healthcare enterprise, one that is even being pursued by the National Academy of Medicine. The vision is straightforward: to be born healthy, acquire no significant disease, live a long and satisfying life, and to reach the end of life without pain or suffering from disease.

Dr. Pettigrew’s unique multidisciplinary approach to medical imaging has implemented multiple innovative programs and is helping create a new era in medicine. Among his accomplishments at NIH, Dr. Pettigrew co-led a joint with the Bill and Melinda Gates Foundation to develop a cell-phone-based platform to test for influenza and other diseases at home.

Dr. Zerhouni will discuss the role imaging plays in biomedicine and in realizing the core goal of personalized medicine: intervening before deterioration of function by predicting which patients will most likely benefit from novel therapies. As a world-renowned leader in radiology and medicine, Dr. Zerhouni serves as president of Global Research & Development, and as a member of the executive committee at Sanofi, a Paris-based global leader in diversified healthcare solutions.

In addition to his duties as NIH director, Dr. Pettigrew has served as the NIH Liaison to NASA and the U.S. Department of Energy, and he has co-led a joint with the Bill and Melinda Gates Foundation to develop a cell-phone-based platform to test for influenza and other diseases at home.

Imaging Innovation
In his lecture, “Imaging Innovation in 21st Century Biomedicine – Challenges and Opportunities,” Dr. Zerhouni will discuss the role imaging plays in biomedicine and in realizing the core goal of personalized medicine: intervening before deterioration of function by predicting which patients will most likely benefit from novel therapies.

Dr. Zerhouni is one of the world’s premier experts in MRI, extending the role of MRI from taking snapshots of gross anatomy to visualizing how the body works at the molecular level. As a researcher, he is credited with developing imaging methods used for diagnosing cancer and cardiovascular disease.

From 2002 to 2008, Dr. Zerhouni served as director of the National Institutes of Health (NIH). In 2009, former President Obama appointed him as one of the first presidential U.S. science envoys. Dr. Zerhouni received the RSNA Gold Medal in 2010.
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Amplify clinical intelligence. Elevate the profession. Visit Nuance at Booth 2700 (South Hall).
Sunday At a Glance
8:30–10:15
Opening Session
(Arie Crown Theater)
RSNA Outstanding Educator and Outstanding Researcher Awards Presented
President’s Address: Is it Time to Reinvent Radiology?
Richard L. Ehman, MD
Opening Session Lectures:
Tomorrow’s Radiology
Roderic I. Pettigrew, PhD, MD

2017 RSNA Scientific Assembly and Annual Meeting Program Dedication
Richard L. Baron, MD, 1949-2017

RSNA dedicates the 103rd Scientific Assembly and Annual Meeting Program to the memory of Richard L. Baron, MD, who died May 4, 2017. Widely respected by colleagues across the globe as a diagnostic radiologist, educator, author and researcher, Dr. Baron forged a lasting legacy at RSNA, serving in numerous leadership positions culminating in his RSNA presidency in 2016.

Throughout his career, Dr. Baron was dedicated to building bridges between radiologists across the globe. He worked closely with radiology associations around the world, building a roster of lifelong personal and professional relationships along the way.

Among his many accolades, Dr. Baron received the Medal of Honor and honorary membership in the French Radiological Society in 2015, the gold medal of the Asian Oceanian Society of Radiology in 2014, and honorary membership in the European Society of Radiology earlier this year.

Dr. Baron’s research focused on diagnostic imaging of liver disease and he served as an international authority on imaging in chronic liver disease and liver tumors. At RSNA 2016, Dr. Baron organized a special Liver Symposium where experts from across the globe met to discuss this critical area of research.

He joined the RSNA Board of Directors in 2008 and served as the Board liaison for Education and International Affairs. In his RSNA 2016 President’s Address, “Beyond Imaging: Ensuring Radiology Impact in Clinical Care and Research,” Dr. Baron offered valuable insight on the future of the specialty he devoted his life to building.

In recognition of his enormous contributions to radiology, Dr. Baron will receive a posthumous Gold Medal at today’s Opening Session.

Enhance RSNA 2017 with the Virtual Meeting
Valuable Content | Extended Access | More Ways to Earn CME
Maximize your meeting experience. Register for the RSNA 2017 Virtual Meeting for an incredible array of CME-eligible educational programming, over 100 live-streamed and on-demand sessions, scientific presentations and more!

Register at RSNA.org/Register
Access at Meeting.RSNA.org/Virtual

Sunday, November 26–Thursday, November 30.

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RSNA 2017
Explore. Invent. Transform.
November 25 to February 28
Virtual RSNA® 2017
Greetings!

As Governor of the State of Illinois, I am pleased to greet everyone gathered for the RSNA 103rd Scientific Assembly & Annual Meeting.

This event presents an exciting opportunity for everyone in attendance to join together with fellow members of your organization to share important information and ideas that advance understanding in the field of radiology. I am sure the conference speakers, technical exhibits, and educational courses will greatly contribute to the high level of knowledge this conference provides. I commend you for your service and contributions within this field.

As you reflect on your accomplishments made during the past year, I urge you to make plans for the future of your organization that will build on your past successes. I am certain that this conference will go a long way toward furthering your goals into the future, both individually and collectively.

On behalf of the people of Illinois, I offer my best wishes for an enjoyable, educational, and memorable assembly.

Sincerely,

Bruce Rauner
Governor, State of Illinois

Welcome to RSNA 2017 from the RSNA Board of Directors

GREETINGS

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November 26, 2017

Radiology Society of North America
103rd Scientific Assembly & Annual Meeting
Chicago, Illinois

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Sincerely,

Bruce Rauner
Governor, State of Illinois

Explore. Invent. Transform.

Office of the Governor

Office of the Mayor

As Governor and Mayor of the City of Chicago, I am proud to extend warm greetings to everyone gathered at the Radiology Society of North America’s 103rd Scientific Assembly & Annual Meeting.

Radiology is a fascinating field that has revolutionized medicine, improving patient outcomes and saving lives. This year’s meeting is an opportunity for professionals to share knowledge, learn from each other, and advance the field of radiology.

I hope you will enjoy the educational sessions, technical exhibits, and social events that are set to take place. Whether you are a seasoned professional or a newcomer to the field, I am confident that this event will provide valuable insights and inspiration.

I wish you all a productive and enjoyable meeting, and I look forward to hearing about the latest advancements in radiology that will continue to improve patient care.

Sincerely,

Bruce Rauner
Governor

Barnes Emanuel
Mayor

November 26, 2017
Manual MR Processes to Automated Accuracy
What a Contrast

For Salem Regional Medical Center (SRMC), enhancing their MEDRAD® MR Smart injection system with contrast dose management software was a game changer. By automating once-manual processes, contrast dose management “not only helped ensure that documentation was complete, in our experience it made it more accurate,” confirmed SRMC Radiology Operations Supervisor Andrew Clark.

Download the case history to learn more about contrast dose management’s measurable impact on SRMC at CDM.bayer.com.
Navigating Your First RSNA Annual Meeting? Veteran Attendees Offer Some Tips

By Felicia Dechter

For those attending their first RSNA annual meeting, three-time meeting attendee David Gimarc, MD, has an analogy for your consideration.

“For someone once told me that attending RSNA for the first time is like trying to take a drink from a fire hydrant,” said Dr. Gimarc, chief radiology resident at the University of Colorado Hospital, Denver, and a member of the RSNA Resident & Fellow Committee. “As the largest medical imaging meeting in the world, it’s very easy to feel overwhelmed.”

For the uninitiated, just learning to navigate the massive structure that is McCormick Place is a challenge in itself. But what can first-time attendees do to make the experience go as smoothly as possible?

Lots of things, according to attendees who have learned from experience.

“Planning ahead — long before you get to Chicago — is critical. To save costs, travel with a colleague, suggests two-time meeting attendee Gerald Drocton III, MD, a neuroradiology fellow at Ohio State University Wexner Medical Center in Columbus.

Book your hotel room in advance through the RSNA website to receive reduced rates for meeting attendees and free convention shuttle rides, Dr. Drocton said.

Once onsite, newcomers should start by soaking up the environment, said Adam Flanders, MD, a professor of radiology and rehabilitation medicine and vice-chair of imaging informatics at Thomas Jefferson University Hospital in Philadelphia.

“Wander around all of those immense buildings and explore everything RSNA has to offer,” said Dr. Flanders, a 30-plus-year attendee. “Don’t try to box yourself into a tight schedule of events initially.”

It’s important to dress professionally but comfortably, suggested Courtney Tomblinson, MD, chief resident in diagnostic radiology at the Mayo Clinic in Phoenix and chair of the RSNA Resident & Fellow Committee.

“Dressing in layers can keep you flexible from room to room where the temperatures may fluctuate,” said Dr. Tomblinson, who has attended the annual meeting twice.

Adds Dr. Flanders: “Wear comfortable shoes and don’t carry a lot of stuff you don’t need — no more than a tablet/PC, water bottle, snacks … otherwise you will be exhausted before lunchtime.”

Tap into RSNA Tools

Along with virtual and physical Information Desks, RSNA offers a number of electronic tools to aid attendees. Download the RSNA meeting app on your smartphone and use the “What’s Happening Now?” feature.

Dr. Flanders suggested. Refer to the RSNA meeting program and Pocket Guide frequently — or constantly.

Consider exploring a wide range of session formats, said Christian Zumkley, a radiologist at Mathias-Spital, a hospital in Rheine, Germany, who will be attending the RSNA annual meeting for the 17th time this year.

He recommended taking educational courses, as “they are very good, especially for beginners. Also, the hands-on courses are often good to get some experience,” Dr. Zumkley said.

“Go over to the Lakeside Center and view some exhibits: traditional poster and digital presentations as well as 3-D models,” Dr. Flanders said. “If you’re a trainee, make a point of taking advantage of the Residents Lounge where you can network and grab a snack.”

Also for trainees, Gelareh Sadigh, MD, a neuroradiology fellow in the Department of Radiology and Imaging Sciences at Emory University School of Medicine in Atlanta, highly recommends attending the RSNA Resident and Fellow Symposium. This year’s symposium on Tuesday, Nov. 28 offers sessions on landing the job you want and how to build a successful career.

For international members, RSNA offers courses on navigating RSNA 2017 presented in English, Portuguese, French and Spanish. (See sidebar). Translation services in Chinese, Dutch, German, Italian, Japanese and Spanish are offered at Information Desks throughout McCormick Place.

And RSNA will once again offer a free professional portfolio studio that has been enormously popular with attendees.

“I’ve gotten the best headshots I have ever had during the RSNA annual meeting,” said Dr. Sadigh, who attended her first meeting in 2010 and has been here every year since.

Have Some Fun Out There

You’re here to learn, but don’t forget to have some fun and sample the eclectic variety of food and attractions Chicago has to offer.

“Whether it be a Chicago Bulls basketball game, a visit to the Field Museum, the Shedd Aquarium or the Art Institute of Chicago, the city has something for everyone,” Dr. Drocton said.

Swing by downtown’s Christkindlmarket, stroll down the Magnificent Mile or go see a show.

“Make sure to plan at least a little bit of time to enjoy Chicago,” Dr. Gimarc said. “While it can be quite chilly in late November — depending on where you’re coming from — the city is decorated for the holidays and can be really beautiful.”

RSNA Resources Aid Novice Attendees

Meeting Central: Optimized for tablets and mobile devices, Meeting Central at RSNA.org is an essential resource for navigating RSNA 2017. Browse course listings, the technical exhibitors list, build your schedule on My Agenda and more.

RSNA 2017 Meeting App: Download the App for iPhone, iPad and Android smartphones to access and explore the RSNA meeting program even when you are offline.

Social Media: Follow RSNA on Facebook, Twitter and LinkedIn to get the latest news, connect with colleagues and share your favorite meeting moments (#RSNA17).

FIRST-TIME ATTENDEE ORIENTATION

Saturday, Nov. 25 and Sunday, Nov. 26

Led by an RSNA staff member, this is the opportunity for attendees who have never been to an RSNA annual meeting to network with their peers and learn how to maximize the annual meeting.

NAVIGATING RSNA IN PORTUGUESE, FRENCH AND SPANISH

Sunday, Nov. 26

Gain insight into the meeting program, networking opportunities and insider tips for navigating the annual meeting and exploring the city of Chicago. Individual sessions are presented entirely in Portuguese, French and Spanish.

NAVIGATING RSNA ON A DIME

Wednesday, Nov. 29

This session will provide tips on how to attend the RSNA annual meeting and enjoy Chicago on a tight budget. For more information on these sessions, go to Meeting.RSNA.org.

Connect Over Social Media at #RSNA17

Join — or start — the conversation on social media at RSNA 2017. Follow RSNA on Facebook, Twitter, Instagram and LinkedIn to get the latest news, connect with colleagues and share your favorite meeting moments. Include the official RSNA 2017 hashtag, #RSNA17, to connect with fellow attendees or to see what other attendees are saying throughout the meeting.

To help you avoid FOMO (Fear of Missing Out) because you can’t be everywhere at once, RSNA will be sharing updates from select sessions on Twitter and video interviews and tours on Facebook Live. If you’re looking to connect with other Twitter users face-to-face, plan to attend the Trainee Tweetup, hosted by the RSNA Resident and Fellow Committee. It will be held in the Residents Lounge on Tuesday at 4:30 p.m.

Time to Update Your Headshot?

Visit the Professional Portrait Studio

Attendees are invited to stop by one of RSNA’s most popular attractions — the Professional Portrait Studio — to get a free professional headshot to use for CVs, passports and social media profiles. Photos are immediately emailed to you. The studio is located in the Grand Concourse North Lobby, Level 3, and is open Sunday through Thursday from 10 a.m. to 5 p.m.
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The RSNA Connections Center: Your Source for Information and Entertainment

The RSNA Connections Center offers a variety of opportunities 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.

**Membership & Resources**
Get answers to your questions about journal subscriptions and making the most of your membership benefits in the Membership & Resources section. The Membership & Resources section also has information about Career Connect, RadiologyInfo.org, Radiology Cares® and Image Wisely®. Attendees can also check out all of RSNA’s print, online and mobile applications in this area. New this year is the self-serve ribbon wall, where you can collect your assigned ribbon(s). Staff can assist with your ribbon selection.

You can also check out RSNA’s newly-upgraded online education platform, the RSNA Online Learning Center, featuring more than 600 online SA-CME activities and an enhanced, mobile-friendly user interface. Staff will be on hand to walk you through the unique education features and tools.

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

**R&E Foundation Donor Suite**
The Research and Education (R&E) Foundation Donor 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 Inspire-Innovate-Invest Campaign. Read about current grant recipients, as well as individual, private practice and corporate donors who provide funding for grants.

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

**Information Desk**
Visit RSNA staff at the Information Desk for answers to all your questions about RSNA 2017.

**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.

**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 branded items including cashmere scarves and pashminas, leather notebooks, power banks and plush toys for the kids. Now this year are adult coloring books and photo frames, along with a special edition R&E coffee mug, with proceeds benefiting the R&E Foundation.

**Discovery Theater Features Music, RSNA Programming**
Located within the Connections Center, Discovery Theater will feature unique discussions and presentations about RSNA programs and research from the field, along with special musical and performance acts. The top 25 entries in the 2017 Discovers the RSNA programming will be featured in a showcase area inside North Hall B. Other first-time exhibitors located throughout the exhibit hall will be identified with a First-Time Exhibitor logo.

**Technical Exhibits Showcase World’s Latest Innovations**
Visit the world’s largest medical exhibition, featuring nearly 700 exhibitors from across the globe. Shop and compare equipment, supplies, devices and software demonstrated by leading manufacturers, suppliers and developers of medical information technology in two halls.

**DISCOVERY THEATRE FEATURES MUSIC, RSNA PROGRAMMING**
Located within the Connections Center, Discovery Theater will feature unique discussions and presentations about RSNA programs and research from the field, along with special musical and performance acts. The top 25 entries in the 2017 Discover the RSNA programming will be featured in a showcase area inside North Hall B. Other first-time exhibitors located throughout the exhibit hall will be identified with a First-Time Exhibitor logo.

**TECHNICAL EXHIBITS SHOWCASE WORLD’S LATEST INNOVATIONS**
Visit the world’s largest medical exhibition, featuring nearly 700 exhibitors from across the globe. Shop and compare equipment, supplies, devices and software demonstrated by leading manufacturers, suppliers and developers of medical information technology in two halls.

**Some scheduled Discovery Theater events include:**

**SUNDAY, NOV. 26**
- Reviewing for Radiographics, 9 a.m.
- Navigating RSNA/Chicago (in Portuguese), 10 a.m.
- Navigating RSNA/Chicago (in French), 11 a.m.
- Austin Ellis, Noon-1 p.m.
- Vocalist
- Navigating RSNA/Chicago (in Spanish), 1:10 p.m.
- Ask a Graphic Media Expert, 1:55 p.m.
- Bring all your graphic design questions to this forum.

2018 Hotel Reservations – Book Today!
- 2:30 p.m.
- Staff will cover the benefits and process of reserving your hotel for 2018.
- Matt Peterson, 3:30-5:30 p.m.
- Pianist.

**MONDAY, NOV. 27 TO WEDNESDAY, NOV. 29**
- Back by popular demand, Nancy Pachis Bank and her team will paint two murals at RSNA 2017.
- MONDAY, NOV. 27
  - Image Wisely® Update, 8:30 a.m.
  - Radiologists’ Hobbies, 9 a.m.
  - Jesse White Tumblers, 9:30-10 a.m.
  - Crescent Circus, Noon-1 p.m.
  - Magic and Circus Act
  - Milwaukee Hot Club, 2:40-3:30 p.m.
- Tuesday, Nov. 28
  - RadiologyInfo.org – Educating the Public, 8:15 a.m.
  - Using RSNA’s Career Connect in Your Job Search, 9:30 a.m.
  - R&E Foundation Embraces Machine Learning, 10 a.m.
  - RadiologyCare® - Patient-Centered Radiology, 10:30 a.m.
- Wednesday, Nov. 29
  - RSNA’s New Online Education Platform, 11:45 a.m.
  - Laura Bretan, 12:30-1 p.m.
  - Opera Singer
  - David Ranalli, 1:30-2:30 p.m.
  - Magician
  - Jim Bamba, 3:30-5:43 p.m.
- Wednesday, Nov. 29
  - Muscial Group
  - RadiologyInfo.org – Educating the Public, 11 a.m.
  - Using RSNA’s Career Connect in Your Job Search, 9:30 a.m.
  - R&E Foundation Embraces Machine Learning, 10 a.m.
  - RadiologyCare®-Patient-Centered Radiology, 10:30 a.m.
- Thursday, Nov. 30
  - Doc Mintz’s Vat of Chocolate, Noon-1 p.m.
  - Jazz Blues Band
  - Calliope, 3:4 p.m.
  - Steel Drum Band

**NEW: MACHINE LEARNING SHOWCASE**
Sponsored by Carestream Health, Google Cloud and Zebra Medical Vision
The new Machine Learning Showcase offers attendees the chance to learn more about this emerging area and network directly with companies at the forefront of the latest technology. Presentations will take place each day from 11 a.m. to 2 p.m. The showcase is located in North Hall B.

**NEW: START-UP SHOWCASE**
Visit the start-up Showcase in North Hall B to explore the latest medical imaging innovations and connect with emerging companies positioned to bring new products and services to market.

**FIRST-TIME EXHIBITOR PAVILION**
First-time exhibitors demonstrating new products and services will be featured in a showcase area inside North Hall B. Other first-time exhibitors located throughout the exhibit hall will be identified with a First-Time Exhibitor logo.

**TECHNICAL EXHIBIT HOURS**
Visit the world’s largest medical exhibition, featuring nearly 700 exhibitors from across the globe. Shop and compare equipment, supplies, devices and software demonstrated by leading manufacturers, suppliers and developers of medical information technology in two halls.

**TECHNICAL EXHIBIT HOURS**
South Hall A and North Hall B
Sunday, Nov. 26 to Wednesday, Nov. 29
- 10 a.m. to 5 p.m.
- Thursday, Nov. 30
- 10 a.m. to 2 p.m.
Located in Lakeside Center East, Level 3, the Learning Center houses thousands of education exhibits and scientific posters covering a range of subspecialties displayed in learning communities. During the lunch hour, authors will be present for poster discussions. Visit Meeting Central for days/times.

**RSNA is also spotlighting:**

**Machine Learning Community**
A destination point for machine learning (ML)-related activities, the Machine Learning Community will be anchored by the RSNA Deep Learning Classroom presented by NVIDIA DLI. Attendees will have a hands-on opportunity to engage with ML learning tools, write algorithms and improve their understanding of emerging ML technology.

The Machine Learning Community will also feature backboard presentations and a National Cancer Institute (NCI) exhibit.

**3-D Printing Demonstration and Showcase**
In addition to many hands-on courses related to 3-D printing, the Learning Center will include poster presentations on 3-D printing in the showcase theater throughout the week and a demo area with additional information. Visit Meeting Central for a complete schedule of events.

**Virtual Reality Showcase**
A virtual reality demonstration provides a glimpse of the research and clinical potential made possible with newly affordable and remarkably compelling virtual reality technology. The exhibit features demonstrations of medical virtual reality tools including instructive clinical examples of using virtual reality for radiology exams, education, surgical planning and networked collaboration.

Visitors will have the opportunity to experience 3-D medical models in virtual reality, travel inside a virtual colonoscopy with a CT roadmap, interact with medical models and scan set images in re-imagined, intuitive and exciting ways.

**NCI Image Perception Research**
For the second year, the National Cancer Institute (NCI) will be conducting studies on radiologic image perception at RSNA’s annual meeting. Attendees will be able to learn about this important area of research and, if they wish, participate in the studies as volunteers in a lab environment. The NCI Image Perception Lab is located near the Residents’ Lounge.

**Ask a Graphic Media Expert**
Attendees looking for assistance with graphic arts for presentations or publications can visit the Learning Center and speak with a graphic media expert. Experts will be on hand to answer questions on topics such as preparing images for publication, working in a PowerPoint template and adding videos to a presentation.

**CME Learning Checkpoint**
This interactive activity will allow attendees to check out nine award-winning hard-copy exhibits from RSNA 2016. Attendees can study an exhibit and take the corresponding quiz on their mobile devices or laptops. Attendees receive 0.5 AMA PRA Category 1 Credit™ for each completed quiz.

**Quantitative Imaging Biomarkers Alliance (QIBA)**
The QIBA Kiosk will provide information about the ongoing coalition efforts among clinicians, researchers, government agencies, industry and RSNA to advance the practice of radiology from image interpretation to quantitation. Meet the Experts presentations will be held throughout the week.

**Quantitative Imaging Reading Room**
Explore products that integrate quantitative analysis into image interpretation. Exhibits feature informational posters, computer-based demonstrations and “Meet the Experts” presentations.

**Quality Improvement (QI) Storyboard Walks**
Join experts in quality improvement in radiology as they walk through the QI storyboards, highlighting examples of great work and sound methodology. Bring your walking shoes and come prepared for an interactive session. Those who are interested in leading and publishing QI projects in the coming months and years will find this especially valuable. The poster walks will be held Monday, Nov. 27, at 3 p.m. and Tuesday, Nov. 28, at 4 p.m. in the Quality Storyboard section.

**Explore New RSNA Diagnosis Live™ Sessions**
RSNA 2017 offers a full roster of popular, expert-moderated Diagnosis Live™ sessions featuring a series of interactive case studies to challenge your diagnostic skills. Play along by studying images on your mobile device and selecting a response. Get immediate feedback, and see how you compare to your peers. iPads and Android tablets work best, but you can also use smartphones or laptops.

**Session highlights include:**
- **Sunday**
  - Imaging of Musculoskeletal Injuries (An Interactive Session) 2-3 p.m. | RC108 | E451B
- **Monday**
  - Mess With the Bull, You Get the Horseshoes (Case-Based Competition) 7:15-8:15 a.m. | SPDL20 | E451B
  - Chest and Abdomen (Case-based Competition) 4:30-6 p.m. | SPDL21 | E451B
- **Tuesday**
  - Keeping Radiology Weird: Spot Diagnoses from the Pacific Northwest (Case-based Competition) 7:15-8:15 a.m. | SPDL30 | E451B
  - Head & Neck College Bowl: A Game Show (Case-Based Competition) 8:30-10 a.m. | RC506 | E451B
  - Abdominal Imaging: Difficult Cases and Add-ons (An Interactive Session) 8:30-10 a.m. | RC601 | E451B
  - Peds, IR, Potpourri (Case-based Competition) 3-4 p.m. | SPDL51 | E451B
- **Thursday**
  - Adrenal Imaging: Difficult Cases (An Interactive Session) 8:30-10 a.m. | RC601 | E451B
  - Peds, IR, Potpourri (Case-based Competition) 3-4 p.m. | SPDL51 | E451B

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2017 Outstanding Researcher, Educator Honored Today

Mitchell D. Schnall, MD, PhD, and Dorothy Bulas, MD, will be honored during the RSNA 2017 Opening Session beginning at 8:30 a.m. in the Arie Crown Theater.

Outstanding Researcher
An international leader in translational biomedical imaging research, Mitchell D. Schnall, MD, PhD, bridges the interface between basic imaging science and clinical medicine. His work on MRI methodology has led to fundamental changes in the imaging approaches to breast and prostate cancer and has significantly influenced emerging technologies such as optical imaging.

Currently the Eugene P. Pendergrass Professor of Radiology and the chair of the Department of Radiology at the Perelman School of Medicine at the University of Pennsylvania, Dr. Schnall has been a faculty member since 1991, and a full professor since 2002.

Dr. Schnall led efforts to organize clinical and translational cancer imaging research in the U.S. He served as deputy chair of the American College of Radiology Imaging Network (ACRIN) from 1999 to 2007, and became chair in 2008. Among the groundbreaking trials under his leadership at ACRIN is the landmark National Lung Cancer Screening trial that demonstrated the ability of low-dose lung cancer screening to reduce lung cancer mortality by 20 percent in high-risk patients. Dr. Schnall was one of the architects of the merging of the College of Radiology (SPR), she helped organize the combined European Society of Paediatric Radiology/SPR 2011 International Pediatric Radiology meeting in London.

Dr. Schnall volunteers her time to strengthen pediatric radiology education, including having served on the ACR Pediatric Radiology Practice Guidelines Committee and as section chair for certificate of qualification in pediatrics for the American Board of Radiology.

Dr. Schnall is a well-known national and international speaker, having delivered over 120 lectures at pediatric radiology conferences across the globe, some of which she helped plan.

She has served as faculty for numerous RSNA annual meetings and also as a track chair on the Refresher Course Committee. She is a member of the RSNA Public Information Committee and the Public Information Advisors Network. She traveled to Ghana in 2016 as part of the RSNA International Visiting Professors program. An advocate for safety in pediatric radiology, Dr. Bulas served as a member of the Image Gently® alliance steering committee.

A founding member of the World Federation of Pediatric Imaging (WFPI), Dr. Bulas is past secretary of WFPI and past chair of the WFPI Education Committee. She currently serves as chair of the American College of Radiology (ACR) Foundation’s international outreach committee. As a past president of the Society for Pediatric Radiology (SPR), she helped organize the national Society for Magnetic Resonance Imaging in 2013.

Outstanding Educator
An internationally-focused professor of pediatrics and radiation, Dorothy Bulas, MD, works to improve pediatric radiology education across the globe.

Dr. Bulas is a professor of pediatrics and radiology at the George Washington University School of Medicine and Health Sciences, and serves as vice chief of academic affairs, program director of pediatric radiology and section head of ultrasound and fetal imaging at Children’s National Medical Center in Washington, DC.

A founding member of the World Federation of Pediatric Imaging (WFPI), Dr. Bulas is past secretary of WFPI and past chair of the WFPI Education Committee. She currently serves as chair of the American College of Radiology (ACR) Foundation’s international outreach committee. As a past president of the Society for Pediatric Radiology (SPR), she helped organize the RSNA Research Scholar Grant to investigate MR imaging of rectal cancer in 2013.

Dr. Bulas volunteers her time to strengthen pediatric radiology education, including having served on the ACR Pediatric Radiology Practice Guidelines Committee and as section chair for certificate of qualification in pediatrics for the American Board of Radiology.

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Dr. Bulas completed her medical degree at the Medical College of Pennsylvania in Philadelphia. She went on to complete a pediatric residency at New York Hospital and her radiology residency at the Albert Einstein School of Medicine in New York City. She is a fellow of the American Institute of Ultrasound in Medicine, ACR, the Society of Radiologists in Ultrasound and the American Academy of Pediatrics.
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RSNA 2017 Spotlights the Critical Role of Imaging in Dementia

By Nick Klaeske

Full Day of Dementia-Related Sessions to be Held Monday, Nov. 27

Over the past 15 years, the role of neuroimaging has become increasingly critical to the diagnosis, treatment and management of dementia, which continues to be one of the world’s biggest healthcare issues. Approximately 47 million people worldwide have some form of dementia, according to the World Health Organization.

While neuropathology was previously the gold standard for diagnosing Alzheimer’s disease (AD) — the most common form of dementia — biomarkers, including those detected with advanced neuroimaging technology, are now the cornerstone of new diagnostic criteria in AD.

“Dementia has traditionally been an area where, for decades, radiology has had a minor role in the clinical management of patients, mainly to exclude rare, potentially treatable causes of dementia, including normal pressure hydrocephalus, cerebrovascular disease or space-occupying lesions,” said Jeffrey R. Petrella, MD, professor of radiology in the Division of Neuroradiology and director of the Alzheimer Imaging Research Lab, both at Duke University Medical Center, Durham, NC. “However, neuroimaging is now beginning to replace neuropathology as the gold standard in Alzheimer’s research.”

There is increasing consensus that the etiology of many neurodegenerative diseases, including those leading to dementia, is related to the misfolding and deposition of abnormal proteins in the brain. Researchers are using molecular imaging techniques to view two of these proteins — amyloid-beta and tau in humans.

“Both proteins are core pathologies in Alzheimer’s disease and are found to some extent in other forms of dementia,” said Dr. Petrella, who presented the 2011 RSNA Annual Oration in Diagnostic Radiology, entitled, “Neuroimaging and the Search for a Cure for Alzheimer’s Disease.” Dr. Petrella will moderate the Special Interest Session: “The Imaging of Cognition — Dementia.”

Development of new biomarkers — for example, radioactive ligands sensitive for proteins related to other dementias, such as frontotemporal lobar dementia and dementia with Lewy bodies — would also likely influence how diagnostic criteria for dementia is shaped in the future.

“Clinical trials for disease-modifying therapies will depend on imaging to enrich samples with patients most likely to benefit from therapies aimed at particular molecular targets,” Dr. Petrella said.

Technology a Central Focus of Sessions

To spotlight the essential and evolving role of radiology in dementia research, diagnosis and treatment, RSNA has scheduled a full day of dementia-related sessions on Monday, Nov. 27, at RSNA 2017.

The session, “Emerging Technology: Imaging of Dementias,” will explore the value of new techniques in diagnosing patients with various forms of dementia, including AD and Lewy body dementia, said session moderator Rathan M. Subramaniam, MD, PhD, MPH, who holds the Robert W. Parkey, MD, Distinguished Professorship in Radiology and is the medical director of Cyclotron and Molecular Imaging Program at the University of Texas Southwestern Medical Center, Dallas.

“FDG-PET spatial distribution of brain metabolism is helpful in differentiating various types of dementia, but usually later in the course of the disease,” said Dr. Subramaniam. “Similarly, MRI structural changes are also helpful, but also later in the disease.”

Dr. Subramaniam, who will also present, “Dementias: FDG and Amyloid PET/CT,” will discuss the potential role of FDG PET and amyloid PET in dementia diagnosis and management while Val Lowe, MD, from the Mayo Clinic, Rochester, will discuss tau PET in the earlier stages of dementia.

“These newer radiopharmaceuticals and tests are transforming the diagnosis and subsequent management of patients with dementia,” Dr. Subramaniam said.

RSNA’s 5K Fun Run to Support Radiology Research

Enjoy an invigorating sunrise run along Chicago’s scenic lakefront during the 2017 RSNA 5k Fun Run, kicking off Tuesday, Nov. 28, at 6:30 a.m., at Arvey Field, South Grant Park, Chicago.

This annual event 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, nearly 750 registrants supported the R&E Foundation through the fully tax-deductible $40 registration donation.

This annual event 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.

This year’s Fun Run is sponsored by Konica Minolta Healthcare.

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Click My Agenda to access Credit Eval to evaluate RSNA 2017 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 walk away with printed certificates. For RSNA members, credits are automatically added to the RSNA CME Repository. Assistance is available at the Digital Support desk in the Connections Center, Lakeside Center East, Level 3.
RSNA Has Positive Impact on Chicago Economy

By Michael Hart

The city of Chicago is happy to host RSNA 2017 attendees — for a variety of reasons. For decades, the impact of the RSNA annual meeting on the city of Chicago has been deeply felt, said Marc Anderson, executive vice president of Choose Chicago, the city’s official tourism organization. “We take great pride in hosting RSNA every year,” Anderson said. “Especially considering RSNA is a hometown client.”

Based in Oak Brook, IL, RSNA’s long-standing partnership with Chicago directly benefits the city in numerous ways, including financially. Last year alone, the overall economic impact of RSNA 2016 to Chicago was more than $128 million. The partnership is mutually beneficial, said Steve Drew, RSNA assistant executive director for scientific assembly and informatics.

“RSNA’s annual meeting in Chicago provides attendees with an exceptional mix,” Drew said. “They are here to attend the world’s largest scientific assembly, offering the most innovative medical science and technology, with the added bonus of visiting a world-class city where their dining, shopping and entertainment options are endless.”

RSNA, which held its first annual meeting in Chicago in 1915, has made the city the permanent home of the RSNA Scientific Assembly and Annual Meeting since 1955. RSNA moved the meeting to McCormick Place in 1975, and has remained at the convention center ever since.

And in a city that hosts more professional healthcare events than any other in the U.S., RSNA is in a class of its own.

“RSNA is the largest medical meeting we host in Chicago,” Anderson said. The proof is in the numbers. RSNA has more than 54,000 members from 142 countries across the globe. Each year, the RSNA annual meeting draws more than 52,000 radiologists, other imaging professionals and exhibitors who flood the city’s trains, buses, hotels, restaurants and world-class attractions. Last year, over 52,000 meeting attendees stayed a total of 122,995 nights in Chicago hotel rooms, according to Choose Chicago. They spent more than $77 million on lodging, restaurants, taxi fares and shopping, generating an additional $51 million in economic activity.

The work that RSNA does in the medical world is very important to all of us here in Chicago.

Marc Anderson

And RSNA’s impact doesn’t stop there, Anderson said. “The more than 52,000 people who travel here for the annual meeting really help keep this city working,” he said. “Whether it’s the room attendants at the hotel, or the restaurateurs, or the cab drivers or the people at O’Hare and Midway airports, we could not be more thankful to have RSNA attendees in our city every year.”

Over the years, the growth of the RSNA annual meeting has created a need to develop Chicago’s event infrastructure, which, in turn, has allowed the city to evolve into the association meetings magnet it is now.

The same is true with the hotel community. The city anticipates an expansion in hotel room inventory by 20 percent between 2014 and 2018 to meet the needs of growing organizations such as RSNA. At the same time, Chicago has experienced a dining renaissance in recent years. Not only have some of the world’s top chefs opened restaurants, more dining options are available at a variety of price points.

And the RSNA/Chicago partnership is mutually beneficial in one other important way, Anderson pointed out. “With the number of hospitals and universities in a 60-mile radius, Chicago offers so much from a scientific and medical standpoint,” he said. “The work that RSNA does in the medical world is very important to all of us here in Chicago.”

RSNA 2017 Country Presents Sessions Recognize Colombia, Israel

This year, RSNA honors Colombia and Israel with its Country Presents series, acknowledging the nations that are helping shape the global future of radiology. RSNA is partnering with the Asociación Colombiana de Radiología and the Israel Radiological Association for the 90-minute sessions featuring the latest research from some of the top radiologists in each country. Sessions can also be viewed live or on-demand through the RSNA 2017 Virtual Meeting.

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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 2017. 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 day, session type and subspecialty.
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RSNA 2017 Meeting App
Download the RSNA 2017 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 2017 Meeting App is sponsored by Siemens Healthineers.

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

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

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**A 100 mSv**

Attribution: Bob Kobistek

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A wide variety of educational programming, scientific presentations and education exhibits are at your fingertips when you register for the RSNA 2017 Virtual Meeting.

With over 100 live-streamed and on-demand courses, the Virtual Meeting gives you access where and when you want. Both RSNA 2017 registered attendees and medical professionals around the globe can participate in the Virtual Meeting.

The Virtual Meeting is available 24 hours a day beginning at 8 a.m. CT (Central Time) on Saturday, Nov. 25, with sessions beginning that afternoon. Live programming will run simultaneously to the annual meeting, and all Virtual Meeting programming will be available on demand through Wednesday, Feb. 28, 2018, at 4 p.m. CT (Central Time).

RSNA 2017 Virtual Meeting offers CME credit for all live-viewed sessions upon completion of a course evaluation or submitting correct diagnoses for Cases of the Day. Select on-demand sessions offer CME upon successful completion of a test and course evaluation.

The virtual community, with live chat capabilities, allows you to discuss course content with colleagues from across the globe.

Flexible pricing allows you to attend the Virtual Meeting in conjunction with the Live Meeting or as a stand alone product. The Virtual Meeting is free for retired members. Register online at RSNA.org/Register.

Visit RSNA.org/Virtual to view the complete Virtual Meeting course listing and to access live and on-demand courses during and after the meeting.

RSNA SEeks Editors for New Online Journals
RSNA is seeking applications from candidates interested in serving as the editor of one of three new subspecialty journals. RSNA will begin publishing in 2019. The journals will be published solely online and will cover cancer imaging, cardiothoracic imaging and machine learning (ML)/artificial intelligence (AI).

The editors will work closely with the RSNA Board of Directors and other RSNA journal editors to develop and execute the strategic vision for each new publication. The editors will also lead the editorial team, manage the peer review process, and actively solicit submissions of scientific manuscripts to the assigned journal, both from external sources and other RSNA journals. The editors will be expected to commit 20 percent of their time to the position beginning in Spring 2018. A complete description of responsibilities for each of the editor positions can be found at RSNA.org/Journals.

Mary C. Mahoney, MD, RSNA board liaison for publications and communications, will chair the search committee. Interested individuals are invited to send their curriculum vitae and a letter of interest/vision by close of business on Friday, December 29, 2017, to:

Mary Mahoney, MD
RSNA
820 Jorie Blvd, Oak Brook, IL 60523
Email to editorssearch@rsna.org

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