Reflection Can Provide Momentum

PRESIDENT'S LETTER

Welcome to RSNA 2014. In order to successfully move forward, often it is necessary to reflect upon the past. During the President’s Address, “Reflect on the Past, Prepare for the Future,” at the opening ceremony of the 100th Scientific Assembly and Annual Meeting of RSNA last November, I urged you to find examples of success, and to use those successes to lead us to the future.

The last 100 years have been a century of transformation in medicine, healthcare, and radiology. This year, RSNA celebrates the 100th Scientific Assembly and Annual Meeting. In doing so, we honor the past and dedicate our focus to the future. It is a century of technological advances, discoveries in fundamental knowledge, and progress in every aspect of medical imaging.

This year’s theme is “A Century of Transforming Medicine,” and throughout the week we will have many opportunities to look forward to. We gather, as those before us did, to witness the ever-increasing number of modalities and applications. And while devices evolve in size and function, we must adhere to the same tenets of our predecessors could not even imagine—some of you are reading this greeting on your smartphone or tablet, while others of you are reading it with the hum of the imaging suite in the background. It’s bigger, with near-instantaneous access to the cutting-edge science and technology of today. We have come a long way with enormous advances in medical technology. Throughout all the changes, we must focus on continuing to advance, not only to finding solutions to today’s problems, but also to guide our resources to the challenges of the future.

As NIH director, Dr. Collins over-saw the completion of a finished sequence of the human genome project, which culminated in April 2003 with the announcement of the international Human Genome Project. He is noted for his landmark discoveries of human genes associated with disease and his leadership of the Human Genome Project, which culminated in the publication of the Human Genome in 2001. Dr. Collins also pioneered the use of the human genome sequence in biomedicine and is noted for his contributions to the development of new treatments for cancer and other diseases.

Dr. Dunnick will announce his discovery of the X-ray on November 30, 2014. He is the Fred Jenner Hodges Professor in Radiology and chair of the Department of Radiology at the University of Michigan Health System. Dr. Dunnick is also the inventor of the concept of the Continuous Fluoroscopy exhibition area.

On behalf of the RSNA Board of Directors, we wish you the opportunity to network with your colleagues and enjoy all that RSNA 2014 has to offer. The exhibits area is bigger this year, with near-instantaneous access to the cutting-edge science and technology of today. We have come a long way with enormous advances in medical technology. Throughout all the changes, we must focus on continuing to advance, not only to finding solutions to today’s problems, but also to guide our resources to the challenges of the future.

We are here to experience new technology, to learn from one another’s experiences and to focus our collective energy on the opportunities we have as a specialty. This year, RSNA is pleased to announce the presentation of the Arie Crown Award to Dr. Francis S. Collins, M.D., Ph.D., in the Arie Crown Theater on Tuesday, December 2. Dr. Collins will talk about how to encourage broader understanding and support for research. He will also address future resource settings.

More recently, radiologists and equipment manufacturers have worked to develop new imaging modalities such as diffusion, CT, and positron emission tomography (PET). These imaging modalities can help us better understand the health and disease of the body. However, as we move forward, we must continue to ensure that imaging is used appropriately and in a way that helps to reduce radiation exposure and costs. With the advent of new imaging technologies, our role in medical education and training has never been more important.

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Reflection Can Provide Momentum

Continued from cover

in light of the information gained from medical imaging compared with the cost, we provide great value."

Research is another key area where radiologists and other imaging scientists must take the lead, Dr. Dunnick added. “We must translate discoveries made in the laboratory into clinical practice,” he said. “The Clinical Trials Workshop presented by RSNA each January is an effort to train radiologists to run clinical trials that demonstrate the value of imaging.

“In order for radiology examinations to become accepted as imaging biomarkers, we must become more quantitative,” Dr. Dunnick continued. “If we can do that, we have the potential to facilitate new drug evaluations and markedly decrease the cost to bring new treatments to clinical practice.”

Dr. Dunnick stressed that the future is bright for radiology as long as radiologists remain committed to maintaining intellectual leadership in the field, just as those who came before them did.

“I would like all radiologists to reflect on our wonderful history and how we have transformed medical care around the world,” Dr. Dunnick said. “But we cannot rest on our laurels and must continue to advance our field by supporting research and delivering quality patient care.”

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Welcome to RSNA 2014 from the RSNA Board of Directors

Office of the Governor

Pat Quinn
Governor

Radiological Society of North America
820 Lake Shore Drive
Oak Brook, Illinois 60523

Greetings!

As Governor of the State of Illinois, I am pleased to welcome everyone gathered for the 100th Annual Meeting and Scientific Assembly of the Radiological Society of North America. The Radiological Society of North America has worked since 1915 to promote and advance the highest standards of radiology and related sciences through education and research. Your efforts help to better prepare healthcare professionals and improve the level of care patients receive. I hope this conference gives each attendee new great opportunities to connect and network with others in your industry. I also hope the continuing educational sessions provide you with the chance to learn from and share knowledge of each other's disciplines represented. I am sure that everyone in attendance will have enough to further their career and emerge to take on new challenges.

I would also like to offer a special welcome to those traveling from outside of Illinois for this event. During your stay, I encourage you to explore and discover the many sites and attractions that this great state has to offer. From historic landmarks and world renowned museums, to fine-dining dining and theater experiences, the scenic beauty of our small towns and cities, it is truly a wide array of interestsrepresenting across the Land of Lincoln.

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

Sincerely,

Pat Quinn
Governor
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*In clinical use, dose saving features may reduce CT patient dose depending on the clinical task, patient size, anatomical location and clinical practices employed. Consultation with a radiologist and physicist are recommended to determine the appropriate dose needed to obtain diagnostic image quality for a particular clinical task.
Korea, Canada Honored at RSNA 2014

Attendees of the RSNA 2014 “Country Presents” courses will have the opportunity to hear the latest in cardiovascular imaging from top radiologists in the two countries spotlighted at this year’s meeting: Canada and the Republic of Korea.

Learn more at “Presents” Booths
Learn more about the history of Korea’s and Canada’s relationships with RSNA by visiting the Korea Presents booth (South Building, Hall A: 1119) and Canada Presents booth (South Building, Hall A: 1219).

In addition, first-time RSNA attendees from Canada and Korea can learn how to make the most of their time in Chicago at Navigating RSNA 2014—get tips from veteran attendees about the meeting program, networking opportunities and exploring the city. A discussion will be held at the Korea Presents booth in Korean today at 11:00 a.m. Discussions will be held today at the Canada Presents booth in English at 1:00 p.m. and in French at 2:00 p.m.

Courses Offer ARLM, RLI Credit

RSNA 2014 attendees looking to maximize their meeting productivity will want to check out annual meeting courses offering credit toward the Academy of Radiology Leadership and Management (ARLM) Certificate of Achievement and the Radiology Leadership Institute® (RLI) programs.


The RLI is an initiative of the American College of Radiology (ACR) offering the opportunity for participants to earn certificates as they graduate through four progressive levels of leadership training. RLI content is developed by leading radiologists in conjunction with business experts and influencers from leading institutions like Harvard, Kellogg, and Babson College. More information about RLI can be found at www.radleaders.org.

“RSNA and ACR agree that leadership education in radiology is critical,” said William G. Bradley, M.D., Ph.D., the AUR representative to ARLM. “We are pleased to be able to collaborate to help radiologists pursue this kind of training.”

Added Cynthia S. Sherry, M.D., M.M.M., chief medical officer with the RLI: “The RLI and ARLM joint effort allows us to bring the best possible leadership development experiences to all radiology professionals. Leadership development promotes individual career advancement and ensures the future success of our profession.”

RSNA 2014 courses offering ARLM and RLI credit can be found using the ARLM filter under “Advanced Filters” in the online RSNA Meeting Program or looking for the ARLM icon in the printed RSNA Meeting Program in Brief.

RSNA Diagnosis Live™

These exciting expert-moderated sessions feature a series of interactive case studies to challenge radiologists’ diagnostic skills. Submit and discuss your responses with your colleagues in a fast-paced game format. Monday’s session from 4:30 to 6:00 p.m. will feature chest, abdomen and neuroradiology cases; Tuesday’s and Wednesday’s sessions from 7:15 to 8:15 a.m. will feature a potpourri of body, cardiac, musculoskeletal, neuro-radiology, and ear/nose/throat cases; and Thursday’s session from 3:00 to 4:00 p.m. will feature musculoskeletal, pediatric, and interventional radiology cases. All sessions will be held in Room E451B.

Radiation Safety Question of the Day

My scanner console reports CTDIvol, which is a surrogate for patient dose, right? [Answer on page 16A.]
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100 Years in the Making

ON DECEMBER 15 AND 16, 1915, 30 charter members held the first meeting of the Western Roentgen Society—predecessor to RSNA—at the Hotel Sherman in Chicago.

Now, more than 50,000 gather at McCormick Place for the 100th meeting. We honor the vision of the RSNA founders and we celebrate an annual gathering that has grown to a scope, size and impact far beyond what our forerunners could have dreamed.

At the 99 meetings that preceded this one, radiologic innovation was supported, medical imaging research was sparked, radiology education was transformed. Perhaps most importantly, a medical imaging community was created—by meeting attendees, just like all of us here at RSNA 2014.

We invite you to take in everything that RSNA’s 100th annual meeting and scientific assembly has to offer. You will find in the stories of our meeting the stories of radiology itself, and you will know these are powerful footsteps in which we follow. The RSNA annual meeting is a legacy we can all be proud to carry on.

By Richard S. Dargan

When more than 6,000 attendees converged on the Palmer House Hotel in Chicago for RSNA 1972, much of the attention centered on a technical exhibitor named Electrical and Musical Industries (EMI). While the British company was best known for recording the music of the Beatles, EMI had commandeered one of the Palmer House ballrooms to unveil a new imaging device called a computed axial tomographic scanner. Developed by Sir Godfrey Hounsfield, D.Sc., the device combined rotating X-ray tubes and computer-based image reconstruction to offer a new level of imaging power.

2007 RSNA President R. Gilbert Jost, M.D., was a first-year medical resident at the Mallinckrodt Institute of Radiology in St. Louis, and among the radiologists in attendance at the event. As Dr. Jost and the others watched, company representatives maneuvered a subject into the machine’s circular opening and had him rest his head on a plastic water bag for stability. The machine whirred to life, and within a few minutes, an image appeared on the monitor.

"The resolution was very crude, but you could see cerebral ventricles in the brain," said Dr. Jost, now the Elizabeth Mallinckrodt Professor of Radiology, chair of the Department of Radiology at Washington University School of Medicine and director of the Mallinckrodt Institute of Radiology in St. Louis. "It was a stunning demonstration, and everyone there realized that this was an enormous breakthrough."

Hounsfield’s machine—the progenitor of today’s sophisticated CT scanners—provides but one striking example of how the technical exhibits at the RSNA annual meeting have served as a launching pad for historic advances in medicine. From modest beginnings, the technical exhibits have grown into a significant component of one of world’s largest medical

"Stunning" “Extensive” “Glittering”

RSNA Technical Exhibits Have Never Ceased to Amaze

TECHNICAL EXHIBITS GRAND OPENING TODAY

The RSNA 2014 technical exhibits will open at 11:00 a.m. today with a ceremony where leaders and industry partners will celebrate a century of the technology and innovation that changed the world of radiology.
This page contains historical text about RSNA meetings and their significance in Chicago. The text mentions the Palmer House and McCormick Place as venues for these meetings, highlighting the growth and importance of RSNA over the years.

RSNA’s Roots Flourish in Chicago Tradition

By Evonne Acevedo Johnson

Since its seminal 1915 meeting in the Hotel Sherman—the site of which is just a few miles from McCormick Place, though the hotel is long gone—RSNA has returned again and again to its Windy City origins. The meeting has in many respects become synonymous with the Chicago experience.

Until 1926, RSNA held both a mid-annual meeting, spanning cities from San Francisco to Boston, and an annual meeting later in the year, generally returning to the Midwest.

The September 1928 issue of Radiology included an invite to “Chicago’s Greatest Radiological Session” at the downtown Drake Hotel. Attendees were encouraged to explore the city, enjoy the facilities, and participate in the annual meeting.

The technical exhibits date back to the years the society began soliciting manufacturers to display their items at the annual meeting. In exchange for a rental fee, each exhibitor was granted charge accounts at Marshall Field’s and other major Chicago department stores, recalled Orpha Linton, M.S.J., retired associate executive director of the American College of Radiology.

By the end of 1978, RSNA had convened at Chicago’s McCormick Place four consecutive times. But in response to requests from members living outside the Midwest, RSNA explored other host cities.

With subsequent meetings in Atlanta and Dallas hampered by security concerns and weather, respectively, all signs seemed to point back to Chicago, where RSNA hosted its 1981, 1982 and 1983 meetings. McCormick Place was booked the next year, so the 1984 meeting took place in Washington, D.C.

Going forward, RSNA leaders concluded Chicago was the best place for its annual meeting and scientific assembly. By the late 1980s, the RSNA meeting had grown so much it seemed it might outgrow McCormick Place. After the city expanded the convention center, however, RSNA scheduled every annual meeting in McCormick Place through the end of the century. RSNA’s close relationship with McCormick Place and Chicago city officials has helped to enrich the experience for attendees and exhibitors.

In 2002, RSNA presented a Special Presidential Award to Mayor Richard M. Daley for his efforts in providing an efficient and affordable meeting.

Chicago Thanks RSNA

RSNA now works closely with the city’s tourism organization. Choose Chicago, to showcase the city’s diverse offerings for attendees. In 2013, RSNA attendees contributed more than $135 million to Chicago’s economy.

“On behalf of Chicago’s visitor industry, it is my sincere pleasure to congratulate RSNA on its 100th annual meeting,” said current Chicago Mayor Rahm Emanuel. “You have and will continue to deliver a significant impact on Chicago’s visitor industry. Chicago and McCormick Place is fortunate to have hosted such a respected organization and one that is synonymous with Chicago, for so many decades. We look forward to your partnership as you continue with critical advancements within the medical industry, while celebrating your well-deserved significant milestones.”

RSNA Technological Exhibits Have Never Ceased to Amaze

Continued from Previous Page

meetings, with approximately 700 exhibitors occupying around 500,000 square feet in two halls of McCormick Place.

1918: The First Exhibition

The technical exhibits date back to the years following the formation of the Western Roentgen Society—predecessor to RSNA—when the society began soliciting manufacturers to display their items at the annual meeting in exchange for a rental fee. In 1919—a year before the Western Roentgen Society changed its name to the Radiological Society of North America—exhibitors gathered to showcase the wares at Chicago’s opulent Hotel Sherman.

The technical exhibits grew steadily throughout the 1920s as diagnosis and therapy began to develop into separate disciplines. A 235,000-volt therapy machine from the Standard X-Ray Company started at the 1923 meeting. In 1928, when the meeting moved to the Drake Hotel on Chicago’s Gold Coast, 27 exhibitors in the grand dining salon displayed everything from film drying cabinets to an X-ray generator from Acme International that, with its spheres, pipes and meters, looked like something out of Dr. Frankenstein’s lab.

Through the Great Depression and World War II, the annual meeting moved among different cities across the country, including Atlantic City, Pittsburgh and Memphis. After the war forced the cancellation of the 1943 meetings, the American Roentgen Ray Society and RSNA, the two societies held a joint meeting in November 1944 in Chicago. Of that meeting Commercial Exhibit Committee Chair Walter R. Scott, M.D., wrote in Radiology: “Your roving reporter attempted to make notes on all the exhibits, but the material was so extensive that it was impossible not to miss some points of interest.”

Exhibitors Seen as Allies

The meeting moved back to the Palmer House Hotel in Chicago in 1950 and remained there for all but two of the next 25 meetings. Important exhibits during the era included the first cobalt beam therapy machine, medical ultrasound, image intensifiers and X-ray television.

At the Society’s 50th anniversary in 1964, RSNA President Robert P. Barden, M.D., was quoted: “As veteran conventioneers know, Technical Exhibits are not just an arena in which to see, hear, and touch all that’s new and glittering in radiologic technology. Here it is we meet our friends again, those interesting and usually charming persons in research, manufacture, and distribution who steadfastly stand behind us and may help us look like better radiologists than we are.”

In the early 1960s the Palmer House added 3,000 square feet of exhibition space to accommodate the demand for space in the early 1960s, but continued growth meant that nearly 30 potential technical exhibitors were excluded from the 1968 meeting. After the sensational 1972 debut of CT, the meeting quickly outgrew the confines of the hotel.

Move to McCormick Place Enables Expansion

The meeting moved to McCormick Place in 1975 and has remained there since, with a few exceptions. Major developments like MRI, PET and computer-based picture archiving and communication systems (PACS) came along, helping to fill space even as McCormick Place expanded with the addition of the North Building in 1986. By 1989, the technical exhibits occupied 165,000 square feet. The largest technical exhibitor took up 15,000 square feet, more than twice the space required of the largest exhibitor at the Palmer House 15 years earlier.

The early 1990s were a transformative time for the technical exhibits, according to Dr. Jost, who served as RSNA Board Liaison for the Annual Meeting and Technology before assuming the presidency. Imaging’s shift from film to electronic media was being stifled by a point-to-point communication protocol revolving around a 50-pin plug.

In 1990, manufacturers demonstrated products that called for electronic transfer and...
Image Interpretation Session
Popular From the Start

By Paul LaTour

When Gerald D. Dodd III, M.D., agreed to moderate the Image Interpretation session at RSNA 2013, he didn’t realize it was another example of him following in his internationally renowned father’s footsteps. Gerald D. Dodd Jr., M.D., past-president of the American College of Radiology and RSNA gold medalist in 1986, moderated the session in 1978.

“I didn’t remember him being a moderator, but my father was very active in academic radiology during his career,” said Dr. Dodd III, chair of the Department of Radiology at the University of Colorado School of Medicine. “We’ve had a number of similarities, and I take satisfaction in having done some of the same things he did.”

Dr. Dodd III ascended to the moderator position after having first served as a panelist in 2002. That’s the path taken by all the moderators of the Image Interpretation Session, which has never lost its status as one of the meeting’s most popular offerings after its debut in 1938.

“This session is entertaining and educational at the same time. They are usually lively and the audience gets to test its own knowledge,” Dr. Dodd III said about what makes the sessions so irresistible.

Each year the session is held on Sunday, the first full day of the annual meeting. In recent years, demand has been so high among attendees that the session is simulcast in an overflow room to accommodate the crowds that don’t fit into the Arie Crown Theater.

The basic format of the Image Interpretation Session has remained the same from its inception—the moderator selects 10 cases to present to the panelists, who are then asked to submit their diagnoses. Audience members can also participate via audience-response system.

There are four learning objectives: Identify key abnormal findings on radiologic studies that are critical to making a specific diagnosis; construct a logical list of differential diagnoses based on the radiologic findings, focusing on the most probable differential diagnoses; determine which, if any, additional radiologic studies or procedures are needed in order to make a specific final diagnosis; and choose the most likely diagnosis based on the clinical and the radiologic information.

“Finding the right cases is difficult,” said C. Daniel Johnson, M.D., the 2007 moderator. “You need a case that can be solved, of wide interest to the audience and difficult enough that their diagnostic skills are really tested.”

Moderators want to challenge the panelists, but they don’t want to embarrass them by selecting cases that are too difficult to solve. Still, part of the session’s popularity stems from the possibility an expert may stumble in making a diagnosis.

“Part of the draw is watching the experts in action, and part of it is waiting to see if an expert screws up,” said 2011 moderator William G. Bradley, Jr., M.D., Ph.D. “It’s not exactly a bloodfest, but there might be some of that. It is good for the younger radiologists in the audience to see how we approach the cases, hopefully honing in on the correct diagnosis.”

While an entertaining atmosphere always plays a factor in attracting attendees, sometimes the fun can actually exceed expectations. That was the case when Barbara N. Weissman, M.D., served as moderator in 1996.

“I think we were the only group to do the Macarena with the audience during a break in the middle of the cases,” Dr. Weissman said. “I learned a lot preparing for the panels and really enjoyed the presentation part. It was a great experience.”

The session is valued so highly that some attendees specifically plan to arrive at the meeting in time for it. Joel E. Lichtenstein, M.D., the 1995 moderator, attended more than 30 meetings during his career and tried to never miss the session.

“If I couldn’t travel for the entire meeting, I always tried to get there for the first part of the week because I like the film panels so much,” Dr. Lichtenstein said. “I thought they were great fun and that it was a great show. I suppose that enthusiasm got me on the panel one year and moderating the next.”

Going from the audience to the panel and then to moderator gives participants the full perspective of the session. It also can be a scary experience for a radiologist to be up on that stage with all eyes trained on him or her.

“Being on the film panel was one of the highlights of my career,” Dr. Lichtenstein said. “It was intimidating, but relatively easy compared to running the thing. There were so many little details involved, never mind the intimidation of getting up in front of an audience that size.”

storage of information, but they were all proprietary, so the technical exhibits remained primarily film-based,” Dr. Jost recalled.

RSNA urged manufacturers to set aside the 50-pin plug in favor of the Digital Imaging and Communications in Medicine (DICOM) standard. To hasten the transition, the Society put together a major exhibit at the 1992 annual meeting, featuring 25 booths with electronic display systems set up in a large oval. Participating companies were able to communicate with each other over the platform and the well-promoted exhibit was a rousing success.

“The amount of information exchanged was trivial, but the symbolism was stunning,” Dr. Jost recalled.

RSNA Unites Users, Manufacturers

Attendance and exhibit space climbed throughout the 1990s, and McCormick Place’s South Building opened in 1997. Innovations like the first hybrid PET-CT scanner in 1999 and the first PET-MRI scanner in 2010 helped push exhibitor space to record levels.

“In the old days, I could get around and see all the technical exhibits in a matter of hours,” Dr. Jost said. “Today, I have no hope of doing that.”

As radiology moves into new frontiers, the next big technological breakthroughs will likely make their debut at the technical exhibits.

“The RSNA is an example of how a professional organization can influence the direction of a specialty,” Dr. Jost said. “Rather than just host the meeting, they bring users and manufacturers together to develop solutions.”
Influence of R&E Foundation Felt Throughout Annual Meeting

By Mary Henderson

Chances are, at some point during the annual meeting, you’ll hear from someone who has received a grant from the RSNA Research & Education (R&E) Foundation. You might not know—the recipient won’t identify themselves as such, the topic won’t be the Foundation—but the fact is recipients are integral parts of the meeting, from volunteer program planners and refresh course lecturers to presenters of scientific papers and education exhibit authors.

The history of the R&E Foundation is woven into the history of the annual meeting. In 1927, RSNA president, Dr. M. D. Wasson, wanted to renew interest in radiology. "I'm a great believer in today's medical specialists, including radiologists, doing things with MR that we never could have imagined," said David C. Levin, M.D., department of radiology at Jefferson Medical College and Thomas Jefferson University.

"MR—a modality that now dominates the practice of radiology and continues to deliver promising new applications. In the 1980s, C. Douglas Maynard, M.D., and Richard L. Ehman, M.D., began evaluating the nascent technology along with other medical specialists, including neurologists. "The field of MR was eventually taken over by radiologists only because radiologists started doing MR research," said Dr. Maynard. 2000 RSNA president and professor emeritus of radiology and former chairman of the division of radiological sciences at Wake Forest University.

As one of the R&E Foundation's first research scholar grant recipients, Dr. Ehman began studying MR elastography, eventually receiving an NIH R01 grant to continue interrogating the technique. Today, MR elastography has been commercialized and is being used to non-invasively evaluate the liver for fibrosis. "When we first started working with MR, we didn’t know what the images meant," said Dr. Ehman. RSNA Board Liaison for Science and R&E Foundation Board member. "Now we are doing things with MR that we never could have imagined."

Recipients Prominent in RSNA History

Dr. Ehman is just one of the 1,000 physician researchers who have received R&E funding since the Foundation was established in 1984. To date, the Foundation has awarded $37 million to radiologist investigators, providing hard-to-find seed money to researchers at all career levels—from medical students and residents to fellows to junior faculty.

Dr. Ehman also exemplifies how R&E grant recipients quite often go on to serve larger roles in RSNA history. In addition to Dr. Ehman serving on the RSNA Board, Mary C. Mahoney, M.D., RSNA Board Liaison for Publications and Communications, is an R&E grant recipient, as are dozens of RSNA committee chairs and presenters of RSNA refresher courses, scientific papers and other annual meeting sessions.

Thirty years ago, few radiologists served as principal investigators and fewer still were funded by the NIH. With the help of the R&E Foundation, those numbers have increased. In a recent survey of R&E grant recipients, 40 percent reported receiving funding from the NIH and 73 percent received extramural funding—$3 million on average.

"R&E grantees are successful academic researchers and department chairmen," Dr. Maynard said. "Many become academic radiology stars."

RSNA thanks our 2014 Corporate Partners who are helping to keep radiology at the forefront of science and technology.

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Experience History of RSNA and Radiology in Centennial Showcase

The Centennial Showcase, located adjacent to the Learning Center in Hall D, is a not-to-be-missed opportunity to see, hear and discover the advancements that shaped radiology. Open today through Thursday, 7:30 a.m. - 6:00 p.m. and Friday, 7:30 a.m. - 12:30 p.m.
Mock Trial Focuses on “Incidentalomas”

By Paul LaTour

A M O C K J U R Y T R I A L b eing conducted at RSNA 2014 involves a case bridging the 100th annual meeting’s theme of “A Century of Transforming Medicine” and the future—the dilemma radiologists face regarding incidental findings on images, known colloquially as “incidentalomas.”

Because of the advances in technology in CT scans, radiologists are now able to see higher-quality images that show much more than in the past. This has led to uncertainty about what findings are important enough to report to a referring physician.

“The resolution of CT scans today is so much better than it was 10 years ago, so we’re seeing all these tiny densities that we never saw before,” said Leonard Berlin, M.D., the event’s moderator. “This presents dilemmas for the radiologist who must decide whether to note it and perhaps suggest it is benign, or ignore it because the statistical likelihood of it developing into cancer is no more than 1 percent.”

The Mock Jury Trial will be held today from 10:30 a.m. until 3:30 p.m. in Room S406A. It focuses on a hypothetical allegation of negligence against a radiologist who observed an incidentaloma on an abdominal CT scan that was obtained for reasons unrelated to the finding. The radiologist evaluated the finding and determined that it was insignificant and clinically unimportant, and thus reported that it because the statistical likelihood of it developing into cancer is no more than 1 percent.

When testimony concludes, the audience will be able to watch the jury deliberations via video and audio feed. Following the rendering of a verdict, participants and the audience will be invited to take part in an open discussion. “It’s a learning opportunity for everybody involved,” Dr. Berlin said.

RSNA 2014 Technology Includes Enhanced App

While at RSNA 2014, don’t forget to download the RSNA 2014 App for iPhone, iPad and Android smartphones for accessing the Meeting Program even when offline. The app, sponsored by Siemens, is useful for a variety of other features as well.

NEW TO THIS YEAR’S RSNA 2014 App is a “Discover” page that highlights different events for attendees to explore. App users can also build their calendars through the My Agenda section, and keep up to date on important information through the notification center. The app also includes a list of RSNA 2014 technical exhibitors, a map to help attendees navigate McCormick Place, and online help during the annual meeting.

The RSNA 2014 App isn’t the only example of the technology offered to make it easier for attendees to navigate the annual meeting. The Meeting Program is available through the app and can also be directly accessed at RSNA2014.RSNA.org/program. The online program offers easy-to-search, detailed information about each of the hundreds of presentations happening at RSNA 2014. In addition to searching for courses by keyword, title and name of the presenter, users can search the online program by day, type and sub-specialty.

WiFi is available throughout McCormick Place, but the wireless networks are not secure and should not be used for sending sensitive information. Internet kiosks are also available throughout the convention center. Computers will be available at the kiosks for accessing Meeting Central and claiming CME credit (see below).

Get the most out of your personal digital devices, including the on-the-go flexibility offered by RSNA’s mobile apps, at the Mobile Connect Booth found in RSNA Services on Level 3 of the Lakeside Center. Tech experts will be on hand in this casual, open environment to help attendees get familiar with the functions of their mobile devices and introduce them to RSNA apps, the Meeting Program, and Credit Eval.

Stop by anytime during RSNA Services hours for personalized, hands-on help from RSNA experts.

How to Claim Credit at RSNA 2014

RSNA Meeting Central at RSNA2014.RSNA.org is the place to claim credit during RSNA 2014. Click Claim CME Credit to get started.

One-on-one help with claiming CME is available in the Mobile Connect area in RSNA Services, Sunday through Thursday from 7:30 a.m. to 8:00 p.m. and Friday from 7:30 a.m. to 12:30 p.m. RSNA staff are also available to help at the Internet Kiosks located throughout McCormick Place.

Attendees are reminded that they must verify attendance at McCormick Place before claiming CME credit. Verification can be done a number of ways: scanning attendee badge at an attendance verification kiosk; purchasing something at the RSNA Store in RSNA Services; or logging into Meeting Central using a mobile device and McCormick Place WiFi.

Visit RSNA Services for Answers and Information

RSNA staff will demonstrate resources, provide information and answer questions about RSNA’s full array of products and services in RSNA Services. Anchored by the RSNA Plaza, RSNA Services on Level 3 of the Lakeside Center offers:

- RSNA Global Connection: RSNA reaches out to medical imaging professionals across the globe. See how wide this reach goes and leave your mark by placing a pin on our giant map.
- Career Connect: The place to go if you’re looking for a job or advertising to fill one.
- Journals, News & RadiologyInfo.org: Check out RSNA’s print, online and mobile publications and the RSNA-Ameri can College of Radiology public information website.
- Membership: Get answers to questions about membership, journal subscriptions, dues payments and making the most of your benefits.
- Radiation Cares®: The Art of Patient-Centered Practice: RSNA’s campaign to optimize the patient experience in radiology.
- RSNA Store: Education products including refresher course USBs and Radiology Select. Explore RSNA mobile CME products and find RSNA-branded merchandise and apparel, with special items this year to mark the RSNA Centennial.
- Research & Education (R&E) Foundation: Learn more about R&E activities, including current grant and award recipients as well as individual, private practice and corporate donors.
- The R&E Donor Lounge: Offers computers, a coat room and comfortable furniture for relaxation and refreshments for those who have received a donor ribbon as well as those who have contributed at least $300 onsite.
- Virtual Meeting: Learn more about and register for the Virtual Meeting.
Residents and Fellows Symposium Explores Career Essentials

Sessions in the RSNA 2014 Residents and Fellows Symposium, sponsored in part by RSNA’s Resident and Fellow Committee, offer a wide range of career-related issues including what trainees should know about the job market, keys to financial success and personal advice from recent grads. The symposium will be held Wednesday from 1:30 to 5:00 p.m. in Room E451B. Highlights include:

**Session 1:** What Type of Job is Best for Me
Designed for trainees and those recently having entered the radiologist job force, the course focuses on developing an understanding of the job opportunities for radiologists, describes the differences between working in private practice and working in an academic medical center, and provides a question-answer forum on the best job choice.

**Session 2:** Career Essentials from the Experts
Presenters discuss issues including what to know about the current job market and evaluating a potential job, interviewing secrets from the business world, including mistakes and pitfalls, and a question-answer session with career experts.

**Session 3:** Money Talk: The Veil is Lifted
Experts discuss keys to financial success during residency, fellowship and early years of practice and answer questions from attendees.

**Session 4:** Candid, Frank and Personal Job Advice from Recent Grads
The session focuses on essential tools and strategies for optimizing a job search followed by a question-answer session with a panel of young radiologists who recently conducted a job search.

**Additional Offerings**
In addition to Wednesday’s symposium, RSNA 2014 offers other programming and services for residents as well:

- **Resident/Fellow Brochure**
  Pick up this brochure in racks in the Grand Concourse to pinpoint courses and sessions with content of interest to members in training.

- **Residents Lounge**
  Located in the Learning Center, the lounge offers RSNA members-in-training and non-member residents a place to relax and network while enjoying complimentary refreshments. The lounge is open Sunday – Thursday, 8:00 a.m. – 6:00 p.m.

- **Residents Reception**
  Offered in conjunction with the American College of Radiology, the reception gives residents a chance to eat, mix and mingle with their peers and network with longtime RSNA members and leaders. The reception is Monday, 4:00–5:00 p.m., in the Hyatt Regency McCormick Place hotel.

- **RSNA R&E Foundation**
  Visit the R&E Foundation area in RSNA Services to explore grants available to residents and fellows. Learn about the work of past grant recipients and the application process.

**Join the Molecular Imaging Scavenger Hunt**
A SELECTION OF DIGITAL SCIENTIFIC education posters presented at RSNA 2014 offer the answers to questions posed in the “Molecular Imaging Scavenger Hunt.” Obtain an entry form and view posters in the Molecular Imaging area of the Learning Center or Molecular Imaging Campus. Forms can be returned to submission boxes located in the Learning Center and Campus. Participants answering all questions correctly will be entered into a prize drawing.

The Scavenger Hunt starts today and runs through Thursday, Dec. 4 at 12:00 p.m.

RSNA thanks Ahlem Bouhlel, Ph.D., Roberto Garcia Figueiras, M.D., Olga Kagna, M.D., Paul E. Kinihara, Ph.D., Abhishek Mahajan, M.D., Yoshiharu Ohno, M.D., Ph.D., Ali Salavati, M.D., M.P.H., Ahmed Wafaie, M.D., and Lizhi Zhang, M.D., for contributing questions to the scavenger hunt.

**Special Recognition for In-Kind Support**
RSNA would like to recognize the following companies for contributing equipment to the Refresher Courses at RSNA 2014:

- **Algea Therapies**
- **Analogic Corporation**
- **Argon Medical Devices, Inc.**
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- **Bayer HealthCare**
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*Companies not exhibiting*

The power of innovation has transformed our healthcare industry from the days of George Ludwig—a pioneer noted for developing the first application of ultrasound to the human body for medical purposes—to the unique ultrasound technology of the Konica Minolta SONIMAGE HS1. It gives you the imaging performance of a high end ultrasound system in a hand carry design.

The innovation continues at RSNA with the introduction of more Primary Imaging Solutions. AeroDR XE... the simple, reliable, robust wireless DR for the most extreme environments. ImagePilot Aero... the all-in-one digital radiography solution. Informity... the fastest, most complete automated cloud backup and recovery solution for ImagePilot.

Focused on innovative imaging solutions for over 75 years, Konica Minolta is committed to meeting customers' changing needs while outperforming expectations.

The Right Solutions at the Right Time!

For an in-depth look at the latest innovations from Konica Minolta, visit us at RSNA 2014 — Hall A, Booth 1918.

Schedule a demo now by going to: www.konicaminolta.com/medicalusa/RSNA
Support the R&E Foundation with 5k Fun Run

Foundation will fund 94 grants totaling $3.6 million—that's a funding rate of 25 percent, of an ever increasing number of excellent grant applications.

“For 30 years of RSNA's 100-year history, the R&E Foundation has played a significant role in advancing the Society's mission to promote excellence in patient care and healthcare delivery through education, research and technologic innovation. This year, the Foundation will fund 94 grants totaling $3.6 million—that's a funding rate of 25 percent, of an ever increasing number of excellent grant applications.”

The bold Campaign seeks to raise $17.5 million to fund grants in radiologic research and education, bridging the gaps in funding for promising investigators and educators.

“The need is great and the time is now,” Dr. Borgstede said. “If the Foundation reaches its Campaign goal, it will keep pace with the growing demand and help ensure that critical discoveries by radiologic investigators come to fruition.”

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Visit the R&E Foundation Booth in RSNA Services to learn more about being a part of the Campaign and supporting the R&E Foundation and the future of the radiology specialty.

Add the Virtual Meeting for the Best RSNA 2014 Experience

Meeting attendees who want to make sure they don't miss featured RSNA 2014 sessions, or who want to be able to access additional content at their leisure from their hotel rooms, will want to check out the RSNA Virtual Meeting, available via any computer or mobile device.

Attendees can visit RSNAnet.org/Virtual to add the Virtual Meeting to their registrations and tune in to live sessions during RSNA 2014 and on-demand through December 19. The fee is $100 for RSNA/AAPM members; $300 for non-members. RSNA members-in-training, medical student members and retired members can access the Virtual Meeting for free.

Virtual Meeting attendees can:

• Watch 59 live streaming courses, including most plenary sessions, image interpretation sessions, refresher courses, Cases of the Day, multisection courses, series courses and scientific sessions.
• Submit diagnoses for Cases of the Day consisting of five cases per subspecialty area throughout the week. Answers will be revealed the following morning.

Register onsite at:
• Professional Registration in Hall D
• Virtual Meeting booth in RSNA Services

Register online:
• RSNA.net/Virtual

• Earn Continuing Education credits for live participation.
• View select education exhibits and digital scientific presentations outside of McCormick Place.
• Shop cutting-edge products, equipment and software from RSNA 2014 exhibitors.
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Dr. Borgstede continues, “We are all the beneficiaries of this research. What will grow from this initial funding? What advances will emanate from it? How can we support these investigators and educators as they pursue their chosen career paths in an effort to make the specialty even stronger?”

R&E Foundation Marks Centennial with Special Announcement

While the chair of the RSNA R & E Foundation Board of Trustees looks forward every year to reporting the state of the Foundation to annual meeting attendees, addressing the audience during this Centennial is a particular honor for Chair James P. Borgstede, M.D.

Today at 4 p.m. in the Arie Crown Theater, Dr. Borgstede will launch “Inspire-Innovate-Invest: The Campaign for Funding Radiology’s Future.” The bold Campaign seeks to raise $17.5 million to fund grants in radiologic research and education, bridging the gaps in funding for promising investigators and educators.

“The need is great and the time is now,” Dr. Borgstede said. “If the Foundation reaches its Campaign goal, it will keep pace with the growing demand and help ensure that critical discoveries by radiologic investigators come to fruition.”

For 30 years of RSNA’s 100-year history, the R&E Foundation has played a significant role in advancing the Society’s mission to promote excellence in patient care and healthcare delivery through education, research and technologic innovation. This year, the Foundation will fund 94 grants totaling $3.6 million—that’s a funding rate of 25 percent, of an ever increasing number of excellent grant applications.

“We should be pleased with these achievements, imagine what the R&E Foundation could fund with additional support from all of us as radiology colleagues,” Dr. Borgstede continued. “We are all the beneficiaries of this research. What will grow from this initial funding? What advances will emanate from it? How can we support these investigators and educators as they pursue their chosen career paths in an effort to make the specialty even stronger?”

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2014 Outstanding Researcher, Educator Honored Today
Theodore S. Lawrence, M.D., Ph.D., and Paula J. Woodward, M.D., will be honored during the RSNA 2014 Opening Session beginning at 8:30 a.m. in the Arie Crown Theater.

Outstanding Researcher
Theodore S. Lawrence, M.D., Ph.D., established himself as a world renowned researcher for his pioneering use of radiation for the treatment of intracranial cancers. In particular, he led a team that developed a model that predicts the maximum safe dose of radiation that can be given to liver tumors, and showed that these higher doses could cure some previously incurable cancers.

Dr. Lawrence is the chair of the Department of Radiation Oncology and the Isadore Lampne Professor of Radiation Oncology at the University of Michigan Comprehensive Cancer Center. He is president of the Radiologic Society of North America, as well as the Society of Chairs of Radiation Oncology.

Dr. Lawrence joined the faculty of the University of Michigan in 1987, following a fellowship in medical oncology and a residency in radiation oncology at the National Cancer Institute. He received his research degree in cell biology from Rockefeller University, followed by his medical degree from Cornell University and an internal medicine residency at Stanford University.

Dr. Lawrence is a member of the Board of Scientific Advisors of the National Cancer Institute and a member of the Institute of Medicine of the National Academy of Science. He is an editor of Translational Oncology, The Cancer Journal, Seminars in Radiation Oncology, and Cancer Research. Dr. Lawrence is past-president of the American Society for Radiation Oncology (ASTRO), and former chair of the National Cancer Institute of Scientific Councilors, and a member of the Board of Directors of the American Society of Clinical Oncology (ASCO). He has received the ASTRO gold medal and an ASCO statesman award.

Outstanding Educator
Teaching has been the life ambition for Paula J. Woodward, M.D., which explains why the achievement she takes the most pride in is being named Teacher of the Year a total of six times from three institutions during her career. Dr. Woodward, an internationally renowned professor, has focused on the educational aspects of radiology while also contributing to the research side of the field. Dr. Woodward’s reputation as a leading expert in obstetrics comes from being the lead author of the book, “Diagnostic Imaging: Obstetrics,” currently in its second edition and considered a standard in the field of fetal imaging.

Dr. Woodward has published nearly 30 peer-reviewed journal articles, as well as 10 other books and nearly 200 chapters. She served as a Radiographics contributing editor from 2002 to 2006.

Dr. Woodward holds the David G. Bragg, M.D., and Marcia R. Bragg Presidential Endowed Chair in Oncologic Imaging at the University of Utah Medical Center, where she has also been a professor in the Department of Radiology since 2005.

Dr. Woodward previously served as a Distinguished Scientist at the Armed Forces Institute of Pathology (AFIP) in Washington, D.C., as well as Gentourinary Section Chief and Radiologic-Pathologic course director at AFIP.

Dr. Woodward received her medical degree from the University of Colorado School of Medicine after earning her undergraduate degree at the University of Colorado, Boulder. Upon completion of medical school, Dr. Woodward served with the U.S. Air Force (USAF) for eight years, including as a radiology resident.

RSNA Meetings Program Dedication
While RSNA typically dedicates its Meeting Program to the memory of one or two individuals to whom the Society wants to pay tribute, this Centennial year the dedication recognizes “all who have gone before us.”

At this morning’s Opening Session at 8:30 a.m. in the Arie Crown Theater, RSNA will dedicate the program to those who have established and joined the Society, and helped the Society pursue its mission and realize its vision for the past 100 years.

• The committee members who develop the annual meeting program and all RSNA activities
• The faculty and attendees for educational courses
• The investigators and attendees for scientific sessions
• The authors, reviewers, and readers of our journals
• The developers and users of informatics technology

RSNA Sessions Showcase Next Generation of Image Sharing
Hard copy films, CDs … what’s next? Annual meeting attendees who want to glimpse the future of medical imaging will want to visit the Integrating the Healthcare Enterprise (IHE) Image Sharing Demonstration in Booth 1336 in South Building, Hall A, where they can learn about state-of-the-art methods being deployed today to make medical images and related data available securely and conveniently. Demonstrations will detail how radiologic care centers can share images and reports with patients and healthcare providers through image-enabled personal health record accounts, how dose reports can be used to monitor patient radiation exposure, and how clinical image data can be processed and shared for use in clinical trials and teaching files. Demonstrations take place regularly during exhibit hours and feature systems developed for the RSNA Image Share network, vendors and research organizations.

Stop by ARR Booth to Support NIH Imaging Research
Attendees can help preserve the future of National Institutes of Health (NIH) research by visiting the Academy of Radiology Research (ARR) booth throughout RSNA 2014 to send critical emails to members of Congress.

NIH has long supported the basic science foundations of imaging science, including the physics, chemistry and engineering advances that have unlocked the power of imaging diagnostics. Over the past decade, translational imaging has built upon these efforts to deliver meaningful clinical solutions that are saving lives and improving healthcare. However, Congressional budget cuts to NIH threaten the institutes’ record of scientific progress and innovation—in radiology and in all other areas of medicine.

“The NIH is the world’s premier medical research institution, but its record of scientific progress and innovation is currently threatened by unprecedented funding cuts,” said Renee Cruea, M.P.A., executive director of ARR, which serves as the imaging community’s voice in Washington. “At RSNA 2014, imaging scientists can help reverse this deeply troubling trend.”

Emails from constituents are an important part of the ARR’s virtual grassroots advocacy campaign to support medical research. “Attendees can simply scan their badge, or use a laptop, iPad or their own mobile device to email members of Congress in support of NIH imaging research. Attendees can also contact Congress via the Academy’s grassroots advocacy website, action.imagingcoalition.org.”

The ARR booth is located in McCormick Place’s Grand Concourse, near the Starbuck’s and help desk.
RSNA Membership Exceeds 54,000

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(as of December 2014)

Quality Certificates Can Be Earned at RSNA 2014

RSNA 2014 is an excellent opportunity for meeting attendees to add to their quality credentials. Attendees of the Quality Multisession Symposium on Tuesday, Dec. 2, will have a chance to earn up to three Quality Essentials Certificates (QEC) designed to recognize those who demonstrate a threshold level of knowledge in quality improvement domains. A QEC is awarded to participants who earn 80 percent or higher on the related SAM test.

RSNA 2014 Abstracts by Subspecialty

A record 13,467 abstracts were submitted for consideration for presentation at RSNA 2014. The final selections for scientific presentations were made in mid-July; 1,754 scientific papers and 949 posters were accepted. Notices for education exhibits were sent in mid-June; 2,151 were accepted.

Visit ACR booth #3123
South Building | Hall A
McCormick Place, Chicago
Nov. 30 – Dec. 4, 2014

ACR at RSNA 2014
Leading Radiology Into the Future

Visit the booth to find out what’s new from ACR
- Lung Cancer Screening Center — earn the designation
- Image Wisely® — Fluoroscopy

Three ways to win a $1,000 gift card
1. Renew your ACR membership
2. Register for ACR 2015 (members)
3. Join and Save — register for ACR 2015 and join ACR for free!

RSNA 2014 Abstracts by Subspecialty

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<tr>
<th>Scientific Presentation (paper or poster)</th>
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Visit us at Booth
#7360 North building
For more information, visit www.samsung.com/rsna2014

* This product is pending 510(k) Clearance.
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“The most time spent for our radiologists was in having to move from one workstation to the next in our facility based on the modality they were viewing. EIZO improved our efficiency with their multi-modality displays and we are now able to stay in one location to do several different types of reads including mammography.”

– Chris Gunderson, Technical Analyst, McFarland Clinic

Come see us at Hall A, Booth 2929