

RSNA *News*



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Radiologists Assist Colleagues in Iraq

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- Patients and Physicians Uninformed About CT Risks, Study Says
- FDA Science Forum Hears Pros/Cons of CAD
- Chicago's Cultural Activities Add Allure to RSNA 2004
- FUJIFILM Pledges \$500,000 to R&E Foundation

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RSNA News

August 2004 • Volume 14, Number 8

Published monthly by the Radiological Society of North America, Inc., at 820 Jorie Blvd., Oak Brook, IL 60523-2251. Printed in the USA.

POSTMASTER: Send address correction "changes" to: *RSNA News*, 820 Jorie Blvd., Oak Brook, IL 60523-2251.

Nonmember subscription rate is \$20 per year; \$10 of active members' dues is allocated to a subscription of *RSNA News*.

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Pisano Heads New UNC Research Center

Etta D. Pisano, M.D., has been chosen as the director of the new Biomedical Research Imaging Center at the University of North Carolina (UNC) in Chapel Hill. Dr. Pisano has been chief of breast imaging in the UNC Department of Radiology, and was co-leader of the school's Lineberger Compre-

hensive Cancer Center's breast cancer program.

Dr. Pisano is also a principal investigator for the national Digital Mammography Imaging Screening Trial for which study results will be released next year.



Etta D. Pisano, M.D.

Kyoto University Gets First Female Chair

Kaori Togashi, M.D., Ph.D., has been appointed professor and chair of the Department of Nuclear Medicine and Diagnostic Imaging at Kyoto University's Graduate School of Medicine.



Kaori Togashi, M.D., Ph.D.

Dr. Togashi is the first woman to chair a department at the university's medical school, and the first woman in Japan to chair a radiology department in a national university.

She credits publication in *Radiology* as one reason for her success. "An achievement in the research field is hard to evaluate," Dr. Togashi explains. "To prepare for appointments, the committee tends to rely on citation index, impact factor and brand name of the published journal. Publishing in *Radiology* has helped me a great deal. It was also an honorable experience for me to teach at the RSNA annual meetings."

ACR Elects New President, Chair

E. Stephen Amis, M.D., is the new president of the American College of Radiology (ACR). He was elected in May at the ACR annual meeting. Dr. Amis had served as ACR chairman since September 2002.

James Borgstede, M.D., is the new ACR chairman. Dr. Borgstede was previously the ACR vice-chairman.

In addition, ACR has elected or re-elected **Arl Van Moore, M.D.**, as vice-chairman; **William F. Mason, M.D.**, as vice-president; **Sarah Donaldson, M.D.**, as secretary-treasurer; **Paul H. Ellenbogen, M.D.**, as speaker; and **Albert L. Blumberg, M.D.**, as vice-speaker.



E. Stephen Amis, M.D.



James Borgstede, M.D.

Image Engineering Selects New VP

Image Engineering Laboratories, LLC, has hired **Chris Kulp** to serve as vice-president of sales and marketing. Image Engineering is the exclusive worldwide marketer and distributor of the

Sat-Pad™, a proprietary, FDA-approved device designed to improve image quality in high field MR imaging.

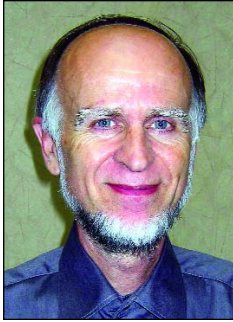
Sonora Has New VP

Sonora Medical Systems has promoted **Christopher Cone, M.B.A.**, to vice-president of sales and marketing. Sonora is a leading supplier of after-market products, services and test equipment

to the medical imaging community. Cone was previously senior director of business development.



Send your submissions for *People in the News* to rsnanews@rsna.org, (630) 571-7837 fax, or *RSNA News*, 820 Jorie Blvd., Oak Brook, IL 60523. Please include your full name and telephone number. You may also include a non-returnable color photo, 3x5 or larger, or electronic photo in high-resolution (300 dpi or higher) TIFF or JPEG format (not embedded in a document). *RSNA News* maintains the right to accept information for print based on membership status, newsworthiness and available print space.



E. Mark Haacke, Ph.D.

Haacke Earns ISMRM Gold Medal

The International Society for Magnetic Resonance in Medicine (ISMRM) has presented its gold medal to **E. Mark Haacke, Ph.D.**, head of the MR Research Facility at Harper Hospital in Detroit.

Dr. Haacke was awarded the medal for his pioneering work with MR angiography and MR venography, his sequence design contributions in fast imaging and his role as an educator in MR imaging science.

He is currently working with susceptibility-weighted imaging and its applications in stroke, trauma, tumor identification and Alzheimer disease.

AAPM Announces 2004 Awards

The American Association of Physicists in Medicine (AAPM) has presented its 2004 awards and honors. The recipients are:

- **Clifton Ling, Ph.D.** – William D. Coolidge Award
- **Donald Herbert, Ph.D.** – Achievement in Medical Physics Award
- **Mark Carol, M.D.** – Honorary Member
- **Paul Lauterbur, Ph.D.** – Honorary Member

ANNOUNCEMENTS

IHE Moves to Next Level

The Integrating the Healthcare Enterprise (IHE) initiative is successfully moving forward with its goal to provide standards for data integration throughout the healthcare industry. New technical documents have been published in cardiology and laboratory, adding to the documents previously published in IT infrastructure and radiology. These documents are available at www.rsna.org/ihe.

Using established healthcare data standards such as HL7 and DICOM, IHE specifies communications among systems to allow for easy integration. RSNA and the Healthcare Information and Management Systems Society

(HIMSS) are the founding sponsors of IHE. More recently, the American College of Cardiology (ACC) agreed to sponsor IHE work in the domain of cardiology. IHE has also grown internationally with IHE activities currently in Asia, Europe and North America.

A recent article in *Health Imaging and IT Magazine*, "IHE: It's Not Just for Imaging Anymore," describes the expansion of the initiative and its importance in addressing the clinical need for information sharing in healthcare today. To see the article, go to



www.healthimaging.com/archives/HIIT/HIIT_2004/HIIT0204/HIIT020407.htm.

At RSNA 2004, IHE will be showcased in a major exhibit and a series of classroom sessions in the *infoRAD* area of the meeting. For the first time, a distributed demonstration of the new Portable Data for Imaging integration profile will enable participants who are exhibiting at the conference to display the capabilities of their systems to share patient information via removable media—such as CDs—directly in their technical exhibit booths.

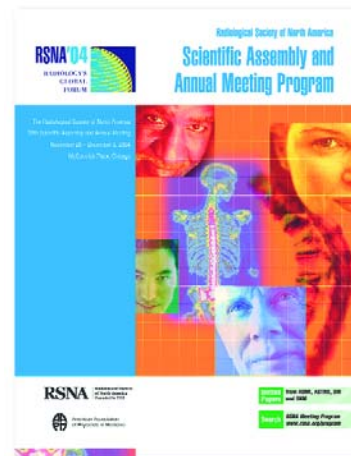
Request a Printed Copy of the RSNA Meeting Program

The deadline is September 1st for RSNA members to request a printed copy of the 2004 *RSNA Scientific Assembly and Annual Meeting Program*. The *RSNA Meeting Program* is a benefit of membership.

To request your printed copy, go to www.rsna.org. Click on the annual meeting logo and then on Meeting Program. Members may also call the RSNA Membership and Subscription

Department at (877) RSNA-MEM [776-2636] (U.S. and Canada) or (630) 571-7873.

Members can choose to have the printed copy mailed to them, or they can pick up the program at the annual meeting. For members who have the printed copy mailed to them, please remember to bring it to the meeting because only one copy per member is available.



Abstracts by Specialty

A record 9,300 abstracts were submitted for consideration for scientific and education exhibit presentation at RSNA 2004. That's about 1,600 more than were submitted for RSNA 2003.

This year's abstracts include 6,414 scientific paper or poster abstracts, 2,717 education exhibit abstracts and 195 *infoRAD* abstracts.

The final selections for scientific presentations were made in mid-July. Notices have been sent to individuals about the status of their submitted abstracts for scientific papers and poster presentations; 1,685 scientific papers and 504 posters were accepted. Notices for education exhibits were sent in mid-June; 1,141 were accepted including five sets of 13 cases of the day. 158 *infoRAD* abstracts were accepted.

Scientific Presentation Abstract Submissions by Specialty:

Breast Imaging	394
Cardiac	465
Chest	477
Emergency	40
Gastrointestinal	839
Genitourinary	386
Health Services, Policy and Research	119
Musculoskeletal	534
Neuroradiology/Head and Neck	829
Nuclear Medicine	208
Pediatric Radiology	228
Physics	567
Radiation Oncology and Radiobiology	295
Radiology Informatics	181
Ultrasound	168
Vascular and Interventional	684
TOTAL:	6,414

Education Exhibit Abstract Submissions by Specialty:

Breast Imaging	116
Cardiac	146
Chest	265
Gastrointestinal	504
Multisystem/Special Interest	132
Musculoskeletal	299
Neuroradiology	375
Nuclear Medicine	54
Obstetrics/Gynecology	121
Pediatric Radiology	139
Physics and Other Basic Sciences	110
Policy and Practice	25
Radiation Oncology	15
Radiology Informatics	26
Uroradiology (Genitourinary)	147
Vascular/Interventional	243
TOTAL:	2,717

RSNA Technical Exhibition Rises in Ranks

Tradeshow Week has released its annual report of the top 200 trade shows in the United States and Canada. The technical exhibition at RSNA 2003 was ranked #38—up from #41 in 2002. The RSNA Technical Exhibition remains #1 among healthcare meetings and the RSNA Scientific Assembly

remains the largest annual medical meeting in the world.

Tradeshow Week also reports an average 3.4 percent increase in professional attendance in 2003 and an average increase of 1.2 percent in the number of exhibiting companies.

Leading Host Cities by Number of Trade Shows

CITY	NUMBER OF TOP 200 SHOWS
Las Vegas	38
Chicago	27
Orlando	17
Atlanta	16
New York City	14

Source: *Tradeshow Week*

The 200 Largest Tradeshows of 2003 by Net Square Feet of Paid Exhibit Space

RANK	2003 SHOW	NET SQ. FT. OF EXHIBIT SPACE	EXHIBITING FIRMS	CITY	MONTH
1	Consumer Electronic Show	1,249,875	2,296	Las Vegas	January
38	RSNA 2003	444,250	668	Chicago	November/December
44	Medical Design & Manufacturing West	370,615	2,078	Anaheim, Calif.	February
73	Medtrade	286,433	849	Atlanta	October
90	HIMSS Annual Conference	247,600	686	San Diego	February
107	American Academy of Orthopaedic Surgeons	228,250	413	New Orleans	February
109	American Academy of Ophthalmology	227,600	497	Anaheim, Calif.	November
136	American Heart Association	179,525	352	Orlando	November

Source: *Tradeshow Week*

BIROW 3

RSNA is a co-sponsor of the third Biomedical Imaging Research Opportunities Workshop (BIROW 3), which will be held March 11–12, 2005, in Bethesda, Md. Planning for BIROW 3 is under way and preliminary information is posted at www.birow.org.

The other co-sponsors are American Association of Physicists in Medicine, American Institute for Medical and Biological Engineering, Academy of Radiology Research, and Biomedical Engineering Society.



Continued on page 19

RSNA Board of Directors Report

At the June RSNA Board of Directors meeting in Montreal, President-elect and Secretary-Treasurer David H. Hussey, M.D., presented the overall RSNA 2004–2005 budget, which has held the increase in operating expenses to the targeted three percent.

Liaisons for the Annual Meeting and Technology, Science, Education, and Publications and Communications presented the budgets for their areas, including new programs and activities on radiologic education, research and publications.

Within this budget, the Board has completed its plan to allocate all resources—financial, volunteer and staff—behind the Society's mission and goals.

Board members also further refined plans to provide more meaningful, more efficient programs and tools for radiologic research and education—not only at RSNA 2004, but also year-round.

Free Online Education Resources

Many of RSNA's online education resources, available through InteractED, will be available to everyone for **free** beginning later this year.

InteractED (www.rsna.org/education/interactive/index.html) offers more than 300 educational programs, ranging from courses culled from the RSNA annual meeting to education exhibits published in *RadioGraphics*.

Previously, InteractED was free for RSNA members while others paid \$15

for seven-day access. The RSNA Board of Directors has decided to provide open access to all InteractED programs, except for the *RadioGraphics* materials and continuing medical education (CME) exams. *RadioGraphics* materials will still require a log-in, as will the CME exams for all InteractED programs. These two areas will remain a **benefit of RSNA membership**.

The RSNA Board has also decided to continue support of a Web site designed as a study tool for radiology residents. **Web-RAD-Train** (www.columbia.edu/~ejh1/web-rad-train/index.html) was developed by Eric J. Hall, D.Sc. It presents essential radiation biology topics, accompanied by questions and answers. The project, which had been funded through a grant from the RSNA Research & Education Foundation, will now be supported directly through RSNA.

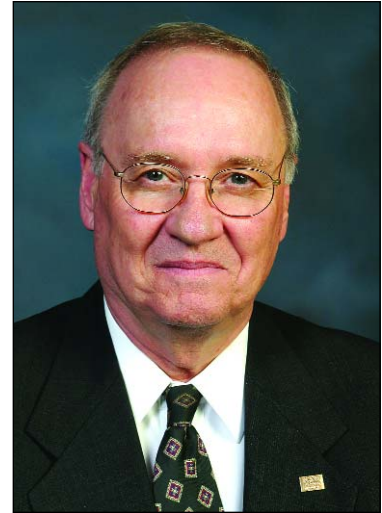
Web-RAD-Train is accessible through *RSNA Link* (www.rsna.org) in the Residents Lounge or through the Education Portal in the radiation biology area of the Virtual Monographs section.

RSNA 2004

Medical Simulators

The use of medical simulators has become a critical component of educating radiologists to perform various procedures—especially in interventional radiology—as well as how to problem-solve in various medical scenarios.

Plans are under way to add a Hot Topic Focus Session on medical simulators at RSNA 2004. The focus session is a direct result of RSNA's belief that

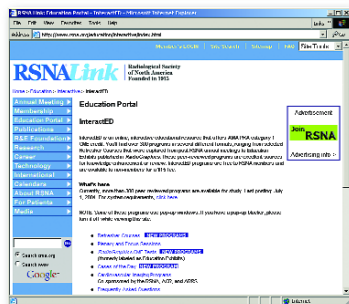


Robert R. Hattery, M.D.
Chairman, 2004 RSNA Board of Directors

medical simulator technology will eventually play an important role in radiology education. This belief has also resulted in a collaborative work-group involving RSNA and the Society of Interventional Radiology. More information will be available in a future edition of *RSNA News*.

Scientific Program/Journal Policy

For many years, it has been a requirement that scientific paper and poster presenters at the annual meeting submit their related manuscripts to *Radiology*. Following a report from the Taskforce on the Scientific Program and Journal, the Board has decided to recommend that the Society's bylaws be amended to eliminate this requirement. RSNA members will vote on the proposed bylaws change at the RSNA 2004 business sessions. If the recommendation passes, scientific presenters will be encouraged rather than required to submit their manuscripts to *Radiology*.



Associated Sciences Refresher Courses

The Associated Sciences Consortium offers eight refresher courses at the annual meeting. Traditionally, the courses have been spread over the entire week. Beginning next year, the courses will mirror the popular format of the Essentials of Radiology series and the Case-based Review Courses. They will be offered throughout the day over a two-day period to help accommodate the schedules of busy radiology professionals.

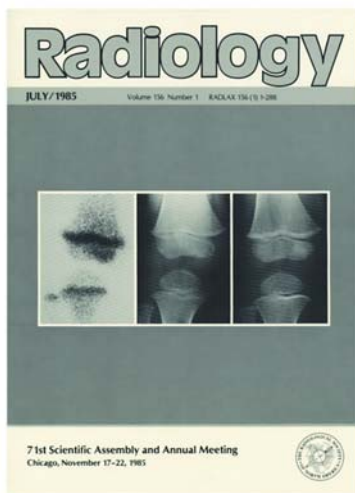
Public Information Efforts

The Board has approved several programs to enhance public awareness about radiology and the roles radiology professionals play in the healthcare process.

Beginning this summer, the Society will send public service announcements to broadcast and satellite radio stations around the country. These public service announcements will describe different radiology procedures and will direct listeners to the award-winning patient education Web site, *RadiologyInfo.org*, to learn more about a particular exam, why it is needed and how a patient can better prepare for it.

Preliminary work is under way to translate *RadiologyInfo* into Spanish. Portions of the Web site may also become available in French. The Canadian Association of Radiologists has asked permission to use content from *RadiologyInfo* and translate it into French, within a project requested by the Canadian Minister of Health.

The Board approved a proposal from the Public Information Committee to expand and update the "B-roll" video package (also known as background footage) for television stations to use with stories about radiology. Some of the video package was used at



the RSNA Media Briefing on Women's Breast Health that was held in July in New York. Other background footage will be used in connection with stories on radiology from RSNA 2004.

Legacy Content

Content from *Radiology* and *RadioGraphics* dating back to the early

1980s will soon be available online. RSNA is working with Google to scan and create portable document format (PDF) files of the journals. PDFs will be

made from *Radiology* articles from 1980 to 2002. PDFs will be made of *RadioGraphics* articles from the journal's inception in 1981 to 2002.

For articles from 2002 to the present, RSNA offers free online journal access to RSNA members and journal subscribers. Once the content becomes two years old, online access is free to everyone.

Other Board Action

- Initial work has begun on a new look for *Radiology*.
- RSNA will participate in developing a virtual journal on molecular imaging.

Content from *Radiology*, *RadioGraphics* and the RSNA Education Center will be added to materials from science and bioengineering publications to form the virtual journal.

- A Japanese company has been granted permission to translate into Japanese existing RSNA education programs. Four programs will be translated each year and will be available on CD-ROM.
- The 2004 RSNA Editorial Fellow will be Harris L. Cohen, M.D.
- RSNA will sponsor a Workshop in Clinical Trials Methodology in early 2006.

ROBERT R. HATTERY, M.D.

CHAIRMAN, 2004 RSNA BOARD OF DIRECTORS

Note: In our continuing efforts to keep RSNA members informed, the chair of the RSNA Board of Directors will provide a brief report in RSNA News following each board meeting. The next RSNA Board Meeting is in October.



Patients and Physicians Uninformed About CT Risks, Study Says

New research confirms growing suspicion that patients and physicians—even radiologists—are not fully aware of the risks and benefits of CT.

Christoph I. Lee, A.B., a fourth-year student at Yale University School of Medicine in New Haven, Conn., reported that “patients are not given information about the risks, benefits and radiation dose for a CT scan,” and that “patients, emergency department physicians and radiologists alike are unable to provide accurate estimates of CT doses regardless of their experience level.”

Lee says a study was needed because very little published information existed on the awareness level of radiation dose and the risk associated with CT scans, “The impetus of the study has been the increasing prevalence of CT scans, including elective procedures such as whole-body scans.”

The study, published in the May issue of *Radiology*, included 76 patients seen during a two-week period in the Yale emergency department (ED) with mild to moderate abdominopelvic or flank pain, who were surveyed after acquisition of their CT scans.

The researchers found that only seven percent of patients reported that they were told about risks and benefits of CT scans, while 22 percent (10 of 45) of the ED physicians reported that they had provided such information. Forty-seven percent (18 of 38) of radiologists surveyed believed

There's a huge knowledge gap between the radiologists that are reading these studies, their understanding of the physics and how much radiation patients are getting, and what the public understands about diagnostic CT scans.

Christoph I. Lee, A.B.

that there was increased cancer risk, whereas only nine percent (four of 45) of ED physicians and three percent (two of 76) of patients believed there was an increased risk.

In addition, all patients and most ED physicians and radiologists were unable to accurately estimate the dose of one CT scan when compared with one chest radiograph. The radiation from one CT scan is equivalent to the radiation dose from 100 to 250 chest radiographs, according to information in the study.

“We had hypothesized that patients wouldn't know as much as physicians and physicians wouldn't know as much

as radiologists,” says Lee. “But what we actually found was that radiologists and ED physicians were about the same when it came to knowledge level about actual radiation dose. So there's a huge knowledge gap between the radiologists that are reading these studies, their understanding of the physics and how much radiation patients are getting, and what the public understands about diagnostic CT scans.”

Co-author Howard P. Forman, M.D., M.B.A., associate professor of diagnostic radiology and management, and vice-chairman of the Department of Diagnostic Radiology at Yale, says, “The study confirms that there is an absolute lack of understanding of radiation dosimetry as it relates to CT, and it confirms that the communication between physicians and patients is lacking when it comes to what radiation is and what it might cause, as well as the suggestion to patients that they be part of the process in deciding



Howard P. Forman, M.D., M.B.A. (left), and Christoph I. Lee, A.B., in the reading area at Yale University in New Haven, Conn.

whether they get a study.”

Dr. Forman says radiologists should make an effort to educate patients, either directly when they appear in radiology departments, or indirectly through primary care physicians. “There are some radiologists out there who clearly don’t think it’s necessary that we educate patients, and I think that is a discussion that needs to happen in the radiology community. It’s our obligation to tell patients as much as possible.”

Informing patients whose priority is good medical care is a challenging proposition, says G. Donald Frey, Ph.D., professor of radiology at the Medical University of South Carolina and president of the American Association of Physicists in Medicine. “You want to keep the patient informed, but you don’t want to overestimate the concern about radiation compared to the risks and benefits of the procedure. It certainly remains controversial as to how much risk an individual patient has with a typical CT dose of about 10 mSv,” he explains. “Risk also depends on whether you’re male or female and how old you are. The patient population tends to be older, so the risk may be less. So it’s rather difficult to find the average risk for an individual patient.”

Dr. Frey adds that minimizing dose is also a balancing act: “The dose has to be commensurate with image quality; you don’t want to have the dose higher than you need, but you don’t want it so low that you compromise image quality.”

In the discussion portion of the *Radiology* article, the authors recom-

Dose Estimates for One CT Scan versus One Chest Radiograph

Respondent Group	CT ≤ CR	CT > CR < 10 × CR	CT ≥ 10 × CR < 100 × CR	CT = 100–250 × CR*	CT ≥ 500 × CR
Patients (n = 67)	19 (28)	43 (64)	5 (7)	0 (0)	0 (0)
ED Physicians (n = 45)	3 (7)	20 (44)	10 (22)	10 (22)	2 (4)
Radiologists (n = 39)	2 (5)	22 (56)	6 (15)	5 (13)	4 (10)

Note.—Data are the number of respondents. Numbers in parentheses are percentages. χ^2 test result, 67.04; $P < .001$. CR = chest radiograph.
* Accurate range.

(*Radiology* 2004;231:393-398) © 2004 RSNA. Printed with permission.

mend that “full disclosure of the current knowledge level about radiation dose and possible risks ... be distributed in appropriate language and in a manner that does not cause public panic. Two possible methods include the posting of clear announcements with associated CT radiation doses and reference ranges in CT department waiting areas, and the availability of informational pamphlets in outpatient waiting rooms.”

They also suggest that large national radiology associations should take the lead in the production of such educational materials. RSNA’s award-winning patient education Web site, *RadiologyInfo.org*, does just that.

Dr. Forman points out that widespread lack of awareness, such as demonstrated by this study, also has economic consequences. “It’s bad for markets,” he explains. “For example, if I were to tell you that in a market for

purchasing a car you would have no information about that car or its history, you would quickly understand that that market is not going to work very well; people aren’t going to want to buy cars and people selling cars are not going to get good offers. Healthcare is a market and the best outcomes can only be achieved when patients, physicians and even those who are paying for the tests—the employers and insurance companies—are informed, not only about the potential benefits of the tests, but also about all the costs, including risks to patients.”

To that Lee adds: “CT scans constitute 13 to 15 percent of diagnostic radiology procedures in the United States, but they are estimated to be responsible for more than 70 percent of the collective radiation dose delivered to patients. This is something that cannot be taken lightly.” □

Notes: RSNA members and Radiology subscribers can access the Lee study online at radiology.rsna.org/cgi/content/full/231/2/393. To use the Quick Search box on the home page (radiology.rsna.org), type in “Lee” for the author, “dose” for the keyword and “2004” for the year.

At RSNA 2003, a special focus session was held on CT and radiation dose. An article from the session is available in the February issue of RSNA News at www.rsna.org/publications/rsnanews/feb04/ct_dose-1.html.

RSNA 2004 Refresher Courses

Two refresher courses will be available at RSNA 2004 on CT dose. To register for these or any other courses, go to www.rsna.org, click on the annual meeting logo and then click on Course Enrollment in the left-hand column under Registration and Housing.

Course # 832 - Update Minicourse on CT Physics and Technology

A. *How Does Patient Size Affect CT Dose and Image Quality?*

Walter Huda, Ph.D.

B. *Radiation Protection and Staff in CT*

Lawrence N. Rothenberg, Ph.D.

Course # 213 - Multidetector CT in Pediatrics

A. *Principles and Image Optimization of Pediatric Multislice CT*
Marilyn J. Siegel, M.D.

B. *Strategies for Dose Reduction: Pediatric Multislice CT*

Donald P. Frush, M.D.

C. *High-Resolution Pediatric Chest CT*

Alan S. Brody, M.D.

FDA Science Forum Hears Pros/Cons of CAD

Tools for computer-aided detection (CAD), including their promise and perils, were the subject of a presentation at the Food and Drug Administration (FDA) Science Forum held in May in Washington, D.C. Nicholas Petrick, Ph.D., a leading imaging technology researcher for the FDA's Office of Science and Engineering Labs, focused his presentation on CAD systems used in lung and breast cancer screening. "CAD is not a perfect tool, you have to work with it," he says.

His analysis included a number of studies that showed breast cancer tumors evident on a first screening, but not read by the radiologist. "The reasons radiologists might miss a lesion or tumor can range from the subtle nature of the lesion to the sheer volume of the data they need to interpret, to the fact that they may be having an off day or just didn't have their coffee," Dr. Petrick explains. "The major benefit of CAD is that it helps identify overlooked malignant lesions and actionable nodules—not that it helps identify subtle lesions that are difficult to perceive on a mammogram or CT scan."

The ultimate goal of CAD use is to make it easier for the radiologist to detect and classify lesions and to identify lesions at an earlier stage so that treatment can be more effective.

While not discussed in the FDA forum, another potential benefit of CAD is that it may add an extra layer of protection against a medical malpractice lawsuit. Radiologists are more often the targets of breast-cancer litigation than other specialists. The average judgment is \$300,000. Missed cancer or delayed diagnoses are common reasons for these suits.

Recently, CAD was successfully



Nicholas Petrick, Ph.D.
FDA Office of Science and
Engineering Labs



Michael J. Ulisse, M.D.
Women's Diagnostic and Breast
Health Center

used in court to defend a radiologist in a malpractice case involving breast imaging. It was the first reported court case to use CAD as a defense. The case was upheld on appeal.

CAD for Lung CT

On July 8, the FDA approved the first CAD system for CT scans of the lungs.

The overall five-year survival rate for lung cancer is 15 percent, according to the American Cancer Society. That rate jumps to 49 percent for cases detected when the disease is still localized, but right now, only 16 percent of cases are found in the early stages.

While CAD for lung CT is new, the FDA has previously approved CAD systems for chest radiographs and for use with mammography. One of the makers of CAD devices, R2 Technology of California, estimates that in 2004, more than 15 percent (about six million) screening mammograms will be interpreted with CAD assistance in the United States.

A study published in the September 2001 issue of *Radiology* by Timothy W. Freer, M.D., and Michael J. Ulisse, M.D., from the Women's Diagnostic and Breast Health Center in Plano, Texas, was the first large prospective clinical trial of CAD with screening mammography. The study included 12,860 patients. The researchers found that when radiologists used CAD to assist with the interpretation of screening mammograms, there was a 19.5 percent increase in the number of cancers detected. They also observed an increase in the recall rate from 6.5 percent to 7.7 percent; no change in the positive predictive value for biopsy at 38 percent; and an increase in the proportion of early-stage malignancies detected from 73 percent to 78 percent.

They concluded, "The use of CAD in the interpretation of screening mammograms can increase the detection of early-stage malignancies without undue effect on the recall rate or positive predictive value for biopsy."

More recently, a study published in the February 4, 2004, issue of the *Journal of the National Cancer Institute* found that CAD-based mammography had little effect on recall and breast cancer detection rates. The study, by D. Gur et. al., is the largest to date of CAD-based mammography in a clinical setting. It included 24 radiologists, all Mammography Quality Standards Act-certified, who reviewed 115,000 screening mammograms over a three-year period.

Dr. Ulisse says the Gur study is just one more piece of the puzzle. "Various studies will substantiate the usefulness of CAD, while others will indicate it has no statistically significant benefit. I think mistakes were made in both the design and interpretation of the Gur paper, but publication of the results does not bother me, nor does it dissuade me from using the device," he says. "Ultimately, time will put the technology in its proper perspective. My personal opinion is that CAD will continue to prove useful in the clinical application of occasionally detecting breast cancers a year or two earlier than they might have otherwise been detected."

While CAD critics say the systems increase the number of workups a radiologist performs because of false-positives, benign lesions and benign nodules identified through the CAD program, Dr. Petrick told those in attendance at the FDA forum, "We would rather have a higher sensitivity and a lower workup rate." He also acknowledged that with more data, Medicare and health insurance companies could reconsider the value of reimbursing for CAD-read mammograms.

Medicare reimbursement for CAD began in 2002, with payment amounts increasing slightly a year later. Also, in 2002, the Centers for Medicare and Medicaid Services (CMS) expanded CAD coverage to include diagnostic exams. This year the coverage was expanded to include the technology's

Ultimately, time will put the technology in its proper perspective. My personal opinion is that CAD will continue to prove useful in the clinical application of occasionally detecting breast cancers a year or two earlier than they might have otherwise been detected.

Michael J. Ulisse, M.D.

use with digital mammography. "But it is not like all questions about CAD's utility have been answered," says Dr. Petrick. Hospitals and screening centers have their own cost/benefit equations to justify. Some estimates put the number of daily screening mammograms necessary to

justify a CAD system at 30—or more than 10,000 a year. Some say it is more like 5,000 a year.

The cost/benefit equation could move more toward the benefit side once CAD systems are available that help radiologists distinguish between malignant and benign tumors, Dr. Petrick adds.

Elizabeth A. Krupinski, Ph.D., from the Department of Radiology at the University of Arizona School of Medicine in Tucson, wrote in an editorial on CAD in the April 2004 issue of *Radiology*, "There is little doubt that CAD schemes will soon be everyday tools in the radiologist's arsenal of digital image processing and interpretation techniques. ... Radiologists need to learn how to integrate CAD information into their own unique decision-making processes, thus balancing that information with the information they collect through their own visual search of the image."

*Notes: A Webcast of the FDA Science Forum is available at www.prous.com/fda2004/. Click on Imaging. A new study on CAD was released in the August issue of *Radiology*. See page 19 for more information.*



Nicholas Petrick, Ph.D., from the FDA Office of Science and Engineering Labs, presented "Computer Aided Diagnosis (CAD): The Current State and Future For This Technology" during an FDA Science Forum. The presentation is available on the Internet at www.prous.com/fda2004/.

Radiologists Assist Colleagues in Iraq

News accounts from Iraq feature tales of war, death, abuse, and political, social and economic strife. The misery of Iraqi citizens is played out nightly in the television newscasts. For several RSNA members, Iraq's pain is something they feel intensely and personally, and they wanted to do something to help.

William E. Shiels II, D.O., a clinical associate professor of radiology at Children's Hospital in Columbus, Ohio, knew he had to say "yes" when asked to attend a very special meeting last February in Baghdad.

"You know, it was just another medical conference," he jokes. "You pull on your gray flannel slacks, your blue blazer, grab your cup of coffee and head to the conference room only to be greeted by bomb sniffing dogs!"

It's easy to joke about it now that he's safely flown in and out of a war zone, but he wasn't always so sure his adventure would end happily. Dr.

Shiels' journey featured a ride on a military C130 aircraft,

chosen to carry two-dozen American physicians into Baghdad because of its capability for evasive maneuvers such as zoom takeoffs and landings. The C130 can change direction

as often as every five seconds, which it did, in an effort to avoid becoming a target. Upon landing, the physicians were fitted from head to toe with Kevlar. "That's when I thought, 'okay, this is for real,'" he says.

Dr. Shiels represented organized radiology at the Iraqi Medical Specialty Forum. Barry B. Goldberg, M.D.,

Outside medical journals and access to the Internet had been forbidden in Iraq until the fall of Saddam Hussein.

William E. Shiels II, D.O.

director of the Division of Ultrasound and a professor of radiology at Thomas Jefferson University Medical Center and Hospital, and chairman of RSNA's Committee on International Relations and Education, had encouraged Dr. Shiels to act as the radiology facilitator for the reconstitution of Iraqi medicine.

Dr. Shiels says the meeting was originally scheduled to host about 750 Iraqi physicians, all of whom had no outside contact with medical experts for 34 years. The gathering was supposed to take place in Baghdad's "medical city," located in the heart of Baghdad. However, because of a security threat, the U.S. military relocated the physicians to the "Green Zone" or the secure U.S. military headquarters, which is located in one of Saddam Hussein's former palaces and conference centers.

It turned out to be a good move. Officials located a bomb in the medical city conference area. It was safely deto-

nated and no one was hurt, but as a result of the location change, only 250 Iraqi physicians were able to attend the meeting. Of those who did attend, Dr. Shiels says their enthusiasm was astounding. "They were grateful we were willing to risk our lives to make contact with them."

As a result of the information void in Iraq, Dr. Shiels says the physicians were at least 10 years behind in medical data and, in many cases, they were 20 to 30 years behind. "They were like sponges, so eager to learn but at the same time they were skeptical that the politics of medicine in Iraq would ever change," he adds.

Dr. Goldberg says he encouraged Dr. Shiels to attend the conference because of Dr. Shiels' previous military experience in the U.S. Army Medical Corps. He was a senior manager of Army radiology at Walter Reed Medical Center near Washington, D.C.

The former lieutenant colonel learned that bringing his international colleagues up to date professionally was just one part of his mission in Iraq. "One



A delegation of American medical specialists traveled to Baghdad in February to participate in an Iraqi Medical Specialty Forum.

Photos courtesy of William E. Shiels II, D.O.



(left) William E. Shiels II, D.O., with a U.S. Army battlefield CT scanner that he helped deploy during Operation Desert Storm. (right) Dr. Shiels with orthopedic surgeon Richard Wilkerson, M.D., and a U.S. Air Force loadmaster on a C130 military transport aircraft. They flew in the C130 between Jordan and Baghdad.

of my greatest challenges was to continue to light the fire of hope and continue to fuel it—to make them believe they would have a future that would materialize that would be something better than the past or present,” he says.

“Dr. Shiels isn’t giving up and neither are we,” says Dr. Goldberg, who has successfully procured and shipped imaging equipment to Armenia, Afghanistan and sub-Saharan Africa, and is scheduled to ship imaging equipment to Serbia as part of a program through the Radiology Outreach Foundation in cooperation with the Global Ultrasound Equipment Donation Foundation. Dr. Goldberg is president of both not-for-profit foundations.

“We hope to get funds from the U.S. Agency for International Development and from the armed forces that have monies approved for rebuilding Iraq,” says Dr. Goldberg. “Unfortunately, efforts are all on hold now because the political situation is too turbulent. We’re hoping when things stabilize, the interest to participate is still there.”

Additionally, Drs. Shiels and Goldberg are working to create “Teach the Teachers” programs where American volunteers can teach dozens of their Iraqi counterparts, and then rely on those “trainees” to help educate colleagues in Iraq.

RSNA Efforts to Help Iraqi Physicians

While physicians here wait for the military and political situation to improve, the threat to Iraqi physicians becomes more intense. Many who have the means are fleeing the nation; others are the victims of kidnappings, captured by outlaws desperate for ransom. Anton N. Hasso, M.D., from the University of California at Irvine, has been involved in RSNA’s efforts to organize a response to Iraq’s need. His contacts tell him the situation for Iraqi doctors becomes more desperate every day.

“They are doing very poorly,” says Dr. Hasso. “They are not only concerned for their personal safety, but they are also pessimistic about the future. They can’t see an end result.”

RSNA is opening an important educational channel for Iraqi radiologists. The Society is offering Iraqi radiologists free membership for one year. The benefit gives the physicians online access to *Radiology* and *RadioGraphics*.

“Outside medical journals and access to the Internet had been forbid-

den in Iraq for decades,” says Dr. Shiels. “In fact, cable and satellite television were forbidden under penalty of death.”

RSNA will also ship educational materials, as soon as Iraqi physicians can safely receive them, that will help bring the radiologists up to date and prepare them to learn new imaging techniques. However until CT scanners, ultrasound machines and other imaging technology can safely be shipped, received and securely housed, RSNA and American radiologists like Drs. Goldberg, Hasso and Shiels can only offer knowledge and hope to Iraqi physicians.

Dr. Hasso says he has his own personal dream of aiding those still living in his former home. “I hope a year from now we’ll be training in neighboring countries like Kuwait or Saudi Arabia,” he says. “Two years from now I’d like to be organizing a course in Baghdad with support from equipment companies and drug companies with hope that, by then, the situation will be stable enough.” □

Note: At RSNA 2004, CIRE is sponsoring the refresher course, “International Emergency Radiology Symposium: Radiology Triage of Trauma During War and Peace.” Drs. Goldberg and Shiels will be joined by Peter D. Corr, M.D., Ofer Benjaminov, M.D., Lilian F.L.Y. Leong, M.D., and Giovanni G. Cerri, M.D., Ph.D.



Chicago's Cultural Activities Add Allure to RSNA 2004

RSNA MEMBERS AND THEIR FAMILIES will be able to enjoy a diverse selection of activities during their stay in Chicago for RSNA 2004. Chicago's calendar of events includes theater, art, music and a number of other activities. There's something for everyone.

MUSEUMS:

Art Institute of Chicago

The Art Institute's world-renowned permanent collection includes a noteworthy exhibition of surrealistic paintings and Impressionistic art. Two special exhibitions are planned for December. A retrospect of the urban and rural landscapes of photographer Art Sinsabaugh will be on display. Sinsabaugh emerged from Chicago's renowned Institute of Design and is best known for his work with the large format 12- x 20-inch camera. A concurrent exhibition focuses on American Indian art.



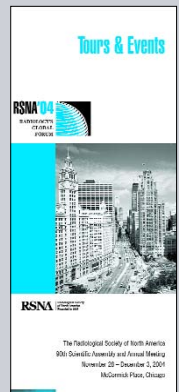
- 111 S. Michigan Ave.
Tickets: (312) 930-4040
Membership: (312) 575-8000
www.artic.edu
www.ticketmaster.com

RSNA Tours & Events

RSNA is sponsoring a series of tours and events during RSNA 2004. A Tours & Events Brochure is available at www.rsna.org. Click on the Annual Meeting logo and then on Tours and City Events in the left-hand column.

New in 2004: Enroll for tours and events online when you register for the annual meeting or add courses.

RSNA Members who participated in tours at RSNA 2002 and RSNA 2003 will automatically receive a brochure in the mail.



The Field Museum

Discover the nuances of America's most cherished first lady through a peek in her closet. Jacqueline Kennedy: The White House Years—Selections from the John F. Kennedy Library and Museum displays more than 70 famous pieces worn by Mrs. Kennedy. Documents, film clips and photographs highlighting the Kennedy administration accompany the clothes.

While visiting the Field Museum, say hello to Sue, the largest, most complete and best preserved Tyrannosaurus rex fossil ever discovered. Sue is only one of the many noteworthy specimens in the Field's permanent collection. The Field Museum anchors the Museum Campus, which contains the Shedd Aquarium and Adler Planetarium, on South Lake Shore Drive at Soldier Field.

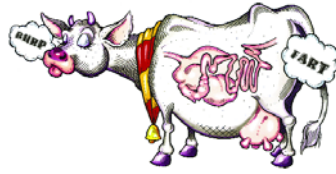
- 1400 S. Lake Shore Dr.
(312) 922-9410
www.fnmh.org



Photos ©JFK Library Foundation and JFK Library and Museum.

Peggy Notebaert Nature Museum

A special exhibit, Animal Grossology, provides colorful, whimsical interactive experiences while answering assorted questions—why cats have hairballs, why skunks stink and why mama birds regurgitate in baby birds’ mouths. Also, be sure to enjoy the beauty of the Butterfly Haven. Other permanent exhibits include the Look-in Animal Lab, Extreme Green House, Mysteries



of the Marsh, RiverWorks, Water Lab, Wilderness Walk and Hands on Habitat for visitors age seven and younger.



■ 2430 N. Cannon Dr.
(773) 755-5100
www.chias.org

Museum of Science and Industry

Visit Hollywood through the special exhibit: Action! An Adventure in Moviemaking. In addition to learning about film production, casting, stunts, set making and special effects, visitors also will have the opportunity to make their own movie.

Aviation enthusiasts should see the newly installed Spirit of Glen Ellyn, a replica of the Wright brothers’ 1903 flyer that made flight history at Kitty Hawk.

The Museum of Science and Industry has something for everyone: a farm, a U-505 submarine, a fairy castle and a coal mine. Visitors may walk through the human heart, watch chicks hatch and throw their voices in the whispering gallery. Aspiring astronauts may visit the lunar module and the Apollo 8 Command Module.

■ 57th St. and Lake Shore Dr.
(773) 684-1414
www.msichicago.org

Chicago Historical Society

This urban museum presents the fascinating multicultural heritage of the region in creative, up-to-date exhibits. Check the Web site for neighborhood tours, lectures, performances and events.

■ 1601 N. Clark St.
(312) 642-4600
www.chicagohs.org

Shedd Aquarium

The aquarium is home to aquatic life from around the world. The Wild Reef exhibit offers one of the most diverse displays of sharks in North America. You can also visit seahorses, otters, seals, dolphins, penguins and whales. The Shedd, a principal part of the Museum Campus, is a tasteful blend of contemporary and 1930s architecture situated on the shore of Lake Michigan.

■ 1200 S. Lake Shore Dr.
(312) 939-2438
www.sheddnet.org

Adler Planetarium

Shows at the planetarium are scheduled continuously throughout the day. Scheduled in the virtual reality StarRider Theater are Stars of the Pharaohs, The Future is Wild, Journey to Infinity and SonicVision. The Sky Theater depicts stars and other nighttime wonders projected on the dome of the planetarium. Sky Theater presentations include MARS NOW! and Secrets of Saturn. The Adler Planetarium is located on a scenic section of the Museum Campus jutting into Lake Michigan.

■ 1300 S. Lake Shore Dr.
(312) 922-7827
www.adlerplanetarium.org

Lincoln Park Conservatory

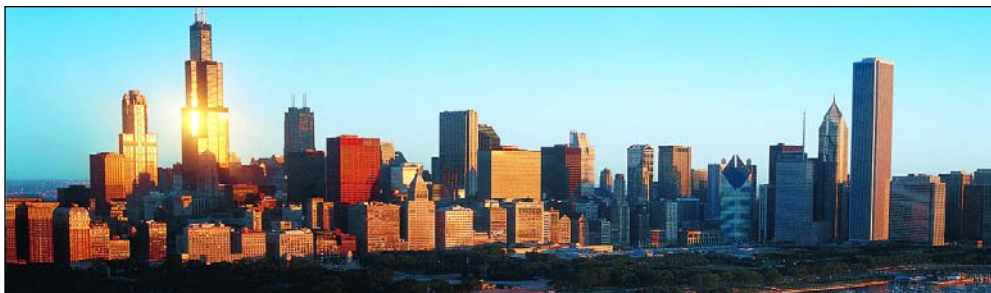
A tropical oasis features greenery from around the world. Seasonal features include a chrysanthemum show in November and a Christmas show in December.

■ 2391 N. Stockton Dr.
(312) 742-7736

Garfield Park Conservatory

View the holiday flower show at the Garfield Park Conservatory, which was built in 1907. The conservatory was designed by architect Jens Jensen and is one the world’s largest gardens under glass.

■ 300 N. Central Park Ave.
(312) 746-5100
www.garfield-conservatory.org



Museum of Contemporary Art

Two special exhibits are on display. Stalemate examines existential crisis and ambiguity through the works of a variety of artists, including Matthew Barney, Felix Gonzalez-Torres, Arturo Herrera, Bruce Nauman, Catherine Opie, Ad Reinhardt, Cindy Sherman and Hiroshi Sugimoto. Kai Althoff: Kai Kein Respekt (Kai No Respect) is the first museum survey of the work of German artist Kai Althoff. In addition to multi-media installations, the exhibit includes collages, paintings, pencil drawings and watercolors.

The MCA's permanent collection represents trends in art after 1945, with a special emphasis in Surrealism (1940s and 1950s), Minimalism (1960s), conceptual art and photography (1960s to the present), installation art and art by local artists. The collection includes paintings, sculpture, photography, video, film and installations.

- 220 E. Chicago Ave.
(312) 280-2660
www.mcachicago.org

Smith Museum of Stained Glass Windows

Located on the east end of Navy Pier, this museum houses the nation's largest permanent collection of Tiffany stained glass windows. The museum has more than 150 stained glass works—some dating back to the 1890s—by artists including John LaFarge, Louis Sullivan, Frank Lloyd Wright, Franz Mayer and F.X. Zettler. Admission is free. Free guided tours are also available by appointment.

- 600 E. Grand Ave.
(312) 595-5024



Chicago's Navy Pier is home to a unique collection of shops, restaurants, museums and a 150-foot-high Ferris wheel.

Performing Arts

CONCERT:

Tom Jones

November 28

- House of Blues
329 N. Dearborn St.
(312) 923-2000
www.hob.com

THEATER:

The Dead

James Joyce's haunting Irish Christmas Eve musical

- Court Theatre
5535 S. Ellis Ave.
(773) 753-4472
www.courttheatre.org

Big Time

A razor-edged look at corporate America. Paul belongs to the fast-track crowd of young banker-broker-trader-dealers whizzing about the world, troubleshooting on international accounts of "serious money."

- Victory Gardens Theater & Training Center
2257 N. Lincoln Ave.
(773) 871-3000
www.victorygardens.org

Mamma Mia!

Broadway's hit musical featuring ABBA's best-known songs, returns to Chicago. A funny, poignant tale of family and friendship.

- Ford Center for the Performing Arts, Oriental Theatre
24 W. Randolph St.
(312) 902-1400
www.ticketmaster.com

Cherry Orchard

Anton Chekhov at his best.

- Steppenwolf Theater
1650 N. Halsted St.
(312) 335-1650
www.steppenwolf.org

Second City



Second City

Comedy and improvisation.

- Mainstage and ETC stage
1616 N. Wells St.
(312) 337-3992
www.secondcity.com

Tommy Gun's Garage

Set in a Prohibition-era speakeasy, the 1920s musical comedy revue includes dinner.

- Tommy Gun's Garage
1239 S. State St.
(773) 728-2828
www.tommyguns.com

Photo: Michael Brostlow

FAMILY PERFORMANCES:

A Christmas Carol

■ Goodman Theatre
170 N. Dearborn St.
(312) 443-3800
www.goodman-theatre.org

A Christmas Schooner

The “Christmas Schooner,” a holiday tradition, takes a wonderful look at families and tradition. Schooner tells the story of the voyage of The Molly Doone across Lake Michigan and Peter and Alma Stossel, whose pioneering spirit is full of the energy and dreams of America in the 1870s.

■ Bailiwick Repertory Theater
1229 W. Belmont Ave.
(773) 883-1090
www.bailiwick.org

On The Record (Disney)

Direct from the producers of “The Lion King,” Disney’s “On The Record” creates an evening of enchantment as a

magical, once-in-a-lifetime recording session begins. This new musical, celebrating the catalogue of Disney music, sparkles with a talented cast and more than 50 songs from popular Disney films.

■ Auditorium Theater
50 E. Congress Pkwy.
(312) 902-1400
www.ticketmaster.com



Blue Man Group

Tubes

by Blue Man Group
Performance art and comedy meet music.

■ Briar Street Theatre
3133 N. Halsted
(773) 348-4000
www.blue-man.com
www.ticketmaster.com

SYMPHONY AND OPERA

Lyric Opera of Chicago

The Cunning Little Vixen

November 29
A sunny, life-affirming masterwork the whole family will love, boasting wonderfully accessible music that evokes the world of nature.

by Leos Janacek
Conductor: Sir Andrew Davis with Judith Christin, Dina Kuznetsova, Jean-Philippe Lafont, Dennis Petersen and Melina Pyron

Aida

December 1
Two doomed lovers—Aida, the enslaved Ethiopian princess, and Radames, the Egyptian general ordered to conquer her countrymen—battle passion and politics in the land of the Pharaohs.

by Giuseppe Verdi
Conductor: Richard Buckley with Olga Borodina, Andrea Gruber, Richard Margison, Salvatore Licitra, Indra Thomas and Dolora Zajick



Lyric Opera

Tickets go on sale in August

■ 20 N. Wacker Dr.
(312) 332-2244 x5600
www.lyricopera.org

Chicago Symphony Orchestra

Haydn

Symphony No. 60 (Il distratto)
Sinfonia Concertante
Symphony No. 98
December 2

Conductor:
Pinchas Zuckerman

Jazz:

Keith Jarrett, Gary Peacock and Jack DeJohnette
December 3

■ 220 S. Michigan Ave.
(888) 294-3550
www.chicagosymphony.org

American Girl Place

Shoppers at American Girl Place may choose among the beautiful dolls and catch Circle of Friends: An American Girls Musical in the theater. Lunch, tea and dinner are served at The Café. Reservations are recommended.

■ 111 E. Chicago Ave.
(877) 247-5223
www.americangirl.com

Chicago Children’s Museum

Chicago Children’s Museum is committed to creating a community where play and learning connect. More than 12 interactive exhibits and new programs offer hours of creative play. The hands-on exhibits are creatively focused on science, literacy, humanities and the arts.

Holiday 2004 features the Adventures of Clifford the Big Red Dog. The annual Gingerbread Fantasy Factory exhibit will open for holiday visitors so children of all ages can pretend to make, bake and decorate gingerbread goodies and participate in creating gingerbread-scented sculptures in the Kraft Artabounds Studio. Children can read and

sing-a-long with the Gingerbread Man.

■ 700 E. Grand Ave.
(on Navy Pier)
(312) 527-1000
www.chicildrens museum.org

Navy Pier IMAX Theatre

Visit the Navy Pier IMAX theatre to see *Santa vs. the Snowman 3D*.

■ 700 E. Grand Ave.
(312) 595-5629
www.imax.com/chicago

Lincoln Park Zoo

The Lincoln Park Zoo is the oldest zoological garden in the country, as well as one of the most modern. Casting a festive glow on the zoo grounds, the Zoo-Lights Festival is a nightly event during the holiday season.

■ 2200 N. Cannon Dr.
(312) 742-2000
www.lpzoo.com

Program and Grant Announcements

NEW!

Personal Financial Management Strategies Sessions Prior to RSNA 2004

The RSNA Education Center is offering two personal financial management strategy sessions on Saturday, November 27, 2004, at McCormick Place in Chicago. These sessions are prior to RSNA 2004. These seminars do not qualify for AMA category 1 credit.

Protecting Assets from Creditor Claims, Including Malpractice Claims

10:00 a.m. – 12:00 p.m.

Includes textbook written specifically for the course!

Presented by Barry Rubenstein, B.S., J.D., L.L.M., this seminar includes comprehensive illustrations to help physicians decide when and how to use asset protection techniques, as well as distinguish the advantages, disadvantages, benefits and risks of numerous strategies.

Effective Real Estate Investment Strategies

1:00 p.m. – 5:00 p.m.

Includes textbook written specifically for the course!

Whether your interest is passive, low involvement investing or hands-on, fully involved investing, you will leave this course with the confidence and skills needed to identify investment real estate that meets your goals. The course, presented by J. Michael Moody, M.B.A., demonstrates that the opportunities and benefits of real estate far outweigh the effort and risk.

Register for these seminars online at www.rsna.org.

Protecting Assets From Creditor Claims	\$129
Effective Real Estate Investment Strategies	\$159
Both Courses	\$269

NEW!

Academic Leadership Courses

The Radiology Academic Council has posted a list of academic and leadership courses on its new Web site, www.radiologyacademiccouncil.org.

RSNA participates in the council, along with the Association of University Radiologists, the Association of Program Directors in Radiology, and the Society of Chairmen of Academic Radiology Departments.

The course listings provide details about each course and a link to the Web site of the society that handles registration for that course.

PowerRAD 2004

August 28, 2004 – RSNA Headquarters, Oak Brook, Ill.

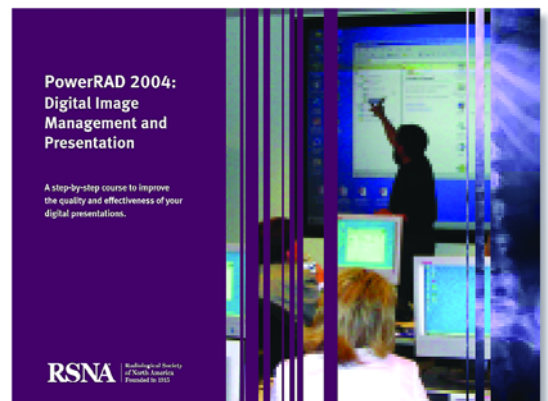
Register online at www.rsna.org/education/shortcourses for this one-day RSNA workshop. Paul J. Chang, M.D., from the University of Pittsburgh, will take you step by step through the process of converting analog radiologic images into an electronic format and editing images and text using various lecture software, such as PowerPoint. This course includes printed lecture notes and CD-ROM software. Since RSNA will

provide all attendees with the use of a desktop computer for this course, space is limited.

Registration Fees:

RSNA Members: \$199
Non-Members: \$249

For more information, contact the RSNA Education Center at (800) 381-6660 x7715 or at ed-ctr@rsna.org.



**PowerRAD 2004:
Digital Image
Management and
Presentation**

A step-by-step course to improve the quality and effectiveness of your digital presentations.

RSNA Radiological Society of North America
Founded in 1907

7 AMA PRA category 1 credits available

Working For You

New RSNA Education Center Store Brochure

The September-October issue of *RadioGraphics* will include a brochure with all of the newest products available through the RSNA Education Center Store. The RSNA Education Resources Catalog will no longer be available in print. To access a complete listing of RSNA Education Center products, go to www.rsna.org/education/catalog.

The RSNA Education Center Store offers more than 300 products, including peer-reviewed educational materials developed from courses at

the RSNA annual meeting. Many products, including syllabi, are offered in a variety of digital formats, such as PDFs, CD-ROMs or online.

To better serve its members, the RSNA Education Center Store has recently brought fulfillment duties in-house. To place orders for educational products, you can still call toll free (800) 272-2902 or order online at www.rsna.org/education/catalog.



Coffee Mugs for New Chief Residents

RSNA will send a congratulatory gift to new chief radiology residents in the United States. The chief residents will receive a coffee mug in a golf-themed package to acknowledge their accomplishments and congratulate their choice to be involved in radiology. RSNA membership is free to residents and medical students.



SERVICE TO MEMBERS:

As managing director of Administration and Human Resources, I liken my mission to that of a cruise director—I need to keep the processes under the deck running smoothly so that everyone on board can do their thing. I work with the staff responsible for administrative support services and human resource management. Together, we support the professionals who serve RSNA members.

Our administrative team, which includes reception services and the mailroom, makes sure basic communications run smoothly. We handle everything from important communiqués and special deliveries, to answering the RSNA toll-free number and overseeing the purchase of office supplies and equipment.

In human resources, we are charged with hiring, developing and retaining only the highest quality professional staff. The HR Department is responsible for selecting and administering the many benefits that are pro-

vided to RSNA employees, including group health, life and retirement programs. We also handle payroll, attendance, new employee orientation and special functions.

WORK PHILOSOPHY:

As staff, our mission is to serve the needs and objectives of our membership. It is the staff dedication to the Society and the work it produces that inspire me on a daily basis. My goal is to work cooperatively, intelligently and with a positive attitude. I am dedicated to always seeking improvement in methods, procedures and results. I strive to exceed expectations. Here at RSNA, I believe my greatest contribution comes from supporting all staff in their combined efforts to serve our volunteer leaders and members.

I am proud to work with an excellent, knowledgeable and enthusiastic staff. Together, we work hard to keep the RSNA “boat” sailing smoothly.



NAME:

Mark W. Lichtenberger

POSITION:

Managing Director,
Administration and
Human Resources

WITH RSNA SINCE:

October 1996

*Working
for you*
PROFILE

If you have a colleague who would like to become an RSNA member, you can download an application at www.rsna.org/about/membership/memberapps.html, or contact the RSNA Membership and Subscription Department at (877) RSNA-MEM [776-2636] (U.S. and Canada), (630) 571-7873 or membership@rsna.org.

Journal Highlights

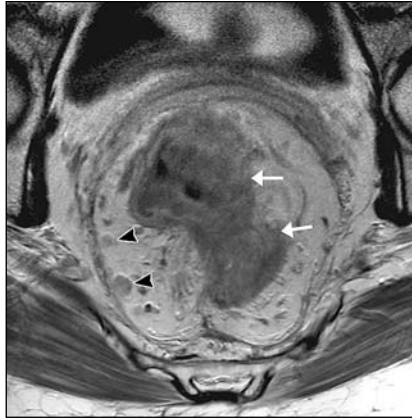
The following are highlights from the current issues of RSNA's two peer-reviewed journals.

Rectal Cancer: Review with Emphasis on MR Imaging

Rectal cancer is associated with a poor prognosis because of the risk both for metastases and for local recurrence. Helping to improve therapeutic management of rectal cancer is a challenging task for radiologists.

In the August issue of *Radiology* (radiology.rsna-jnls.org), Regina G.H. Beets-Tan, M.D., Ph.D., and Geerard L. Beets, M.D., Ph.D., from University Hospital Maastricht, in the Netherlands, review the relevance of preoperative imaging in staging the local extent of primary rectal cancer.

Research on various imaging



Transverse contrast-enhanced T1-weighted turbo spin-echo MR images of rectal cancer with involved nodes in mesorectal fat. Rectal tumor (arrows) with involved perirectal nodes (arrowheads) are all located within the mesorectum in a 69-year-old woman.

(*Radiology* 2004;232:335-346)

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modalities, with an emphasis on MR, are discussed under four main headings that address the most relevant aspects of local spread of rectal tumors:

- T stage
- Circumferential resection margin

- Locally advanced rectal cancer
- N stage

The article also includes “Essentials” or highlighted points to help busy readers recognize important information at a glance.

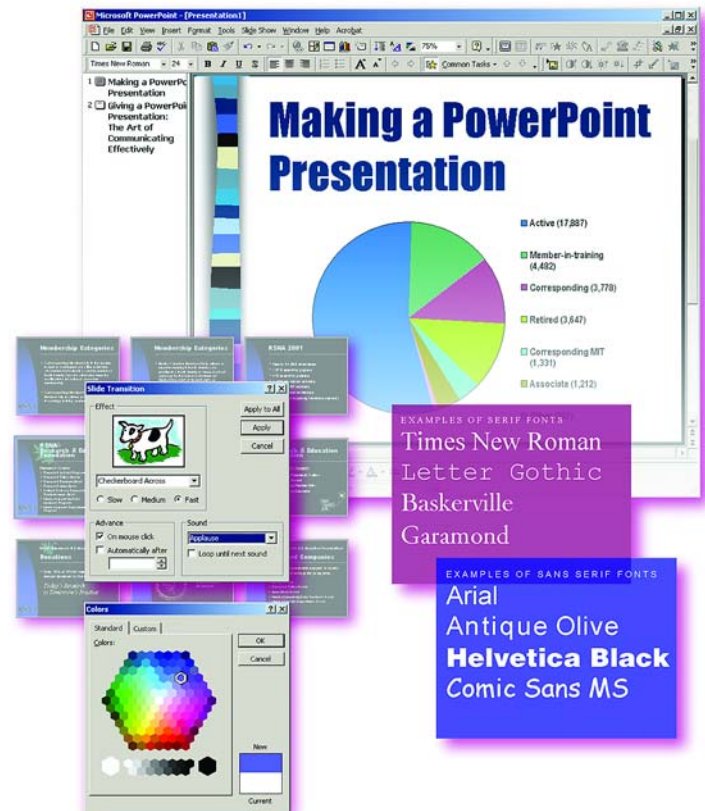
Creating and Delivering PowerPoint Presentations

Most radiologists are now creating their own image and text slides for oral presentations. PowerPoint software offers a tremendous number of options for personalizing slides. However, inappropriate use of PowerPoint features can substantially degrade the quality of a presentation.

In an article appearing in the July-August issue of *RadioGraphics*, Jannette Collins, M.D., M.Ed., provides tips on how to develop effective text and image slides for electronic presentation by using PowerPoint, including the appropriate use of text, font, color, sound, graphics, slide display and radiologic images.

In a second article appearing in the same issue, Dr. Collins outlines techniques for an effective oral presentation. These techniques include rehearsing the presentation, body language, focusing on a few key points, and engaging the audience.

For online access to these articles, “Making a PowerPoint Presentation” (*RadioGraphics* 2004;1177-1183) and “Giving a PowerPoint Presentation: the Art of Communicating Effectively” (*RadioGraphics* 2004;1185-1192) go to radio-graphics.rsnajnls.org.



Radiology in Public Focus

A press release has been sent to the medical news media for the following scientific article appearing in the August issue of *Radiology* (radiology.rsna.org):

Can Computer-aided Detection with Double Reading of Screening Mammograms Help Decrease the False-Negative Rate? Initial Experience

Computer-aided detection (CAD) may help to decrease false-negative findings on screening mammograms by more than one-third.

Stamatia V. Destounis, M.D., and colleagues from The Elizabeth Wende Breast Clinic in Rochester, N.Y., retrospectively evaluated false-negative findings on 98 (31 percent) of 318 screening mammograms. When using CAD, 37 cancers were correctly marked, thus decreasing the false-negative rate to 19 percent (61 of 318 screening mammograms).



The researchers are now conducting a prospective study at their institution to measure and evaluate the associated changes as a result of CAD, including the recall rate, radiologists' workload and overall operating expenses.

Dr. Destounis released these findings at an RSNA Media Briefing on Women's Breast Health held in New York on July 22. More information on the media briefing will be available in the September issue of *RSNA News*.

CAD Results for Actionable False-Negative Findings According to Interval between Prior Mammography and Detection

Interval	No. of Cases	Prior Mammogram Correctly Marked by CAD System
≤ 1 year	29	26
> 1 year	23	11
Total	52	37

(*Radiology* 2004;232:578-584) © 2004 RSNA. All rights reserved. Printed with permission.

RSNA press releases are available at www.rsna.org/media.

ANNOUNCEMENTS

Continued from page 3

R.T.s Plan Foreign Trip to Share Information about Diagnostic Imaging

A delegation of radiologic technologists (R.T.s) will meet with their counterparts in Russia and Poland next February as part of the People to People International Ambassador Program. The delegation will be led by Colleen Dawson, R.T. (R)(CV), president of the California Society of Radiologic Technologists.

"This will be a great professional opportunity to learn different ways radiography is used throughout the world," says Dawson. "As imaging is the physician's No. 1 diagnostic tool, it is a very important process for patient care. They may show us ways of handling the imaging process more efficiently or logically."

Dawson says they will also discuss educational programs, cross-training in functional imaging, radiologist assistants and licensure standards, such as the Consumer Assurance of Radiologic Excellence bill.



Colleen Dawson, R.T. (R)(CV)

Dentists, Physicians Urge Government to Change Policy for Young Asylum Seekers

More than 70 prominent American dentists and physicians—including 13 deans of dental, medical and public health schools—have sent a letter to the U.S. Department of Homeland Security asking authorities to stop taking dental and wrist bone radiographs to determine the age of young people seeking safe haven in the United States.

"Medical and dental experts have demonstrated the variability and inaccuracy of these exams, and we are concerned that these unreliable tests, often used as the sole age determinant, are irresponsible and are given unwarranted scientific legitimacy," the letter stated.

To view the entire letter, go to the Physicians for Human Rights Web site at www.phrusa.org/campaigns/asylum_network/pdf/age-testingletter.pdf.

FUJIFILM Pledges \$500,000 to R&E Foundation

FUJIFILM Medical Systems is reinforcing its long-term commitment to radiology research and education with a \$500,000 pledge to the RSNA Research & Education Foundation.

“Research and education are investments in the future of the industry,” says Clayton Larsen, vice-president of marketing and network development. “Fuji is committed to being a long-term major player in healthcare imaging and information.”

Fuji gave the R&E Foundation a check for \$350,000 in April and will pay the balance of its half-million dollar commitment over the next 10 years.

Fuji is one of the 11 original members of the Foundation’s Vanguard Group, founded in 1989 as a way to provide additional grant support to young investigators. Since then, Fuji has donated \$900,000 to the Foundation. “As a charter member of the Vanguard Group, we wanted to reinforce our continued support of RSNA, particularly as we recognize the Society as the premier source of radiology education and research,” says Larsen.

FUJIFILM Medical Systems is a wholly owned U.S. subsidiary of Fuji Photo Film, Co., based in Tokyo. Fuji’s radiographic films were first sold in the United States in 1965 through the Pyne X-Ray Corporation. Later Pyne expanded its distribution of Fuji’s medical products and in 1986, Fuji



purchased Pyne X-Ray and renamed the company FUJIFILM Medical Systems, U.S.A.

Larsen says Fuji is keenly aware of the critical relationship between manufacturers and researchers. “Medical imaging is driven by alternating cycles of technology advancements and the clinical application of those advancements,” he says.

“Industry alone cannot move clinical care forward without careful medical oversight in learning the technology and measuring its clinical impact. If the impact is positive, industry gets the bene-

fits from their investment, and the clinical community gets the benefit from the technology. Industry and care providers, such as radiologists, have clearly aligned interests in this regard.”

Fuji’s newest contribution to the R&E Foundation will be used to fund

the RSNA International Visiting Professor (IVP) Program. This program, administered by the RSNA Committee on International Relations and Education, allows small teams of radiologists to travel to developing nations to lecture at national radiology meetings, as well as exchange information with radiologists and teach radiology residents in those countries.

In 2005, the Fuji contribution will be used to fund the IVP program in Brazil. The visiting professors are David Yousem, M.D., from The John Hopkins School of Medicine; William Thompson, M.D., from Duke University Medical Center; and Erik K. Paulson, M.D., from Duke University Medical Center.

Fuji’s contributions have also been used to fund two 2004 grants:

- Fengming Kong, M.D., Ph.D., from the Department of Radiation Oncology at the University of Michigan, Ann Arbor, will use his Research Seed Grant for “A Pilot Study to

*Medical imaging is driven
by alternating cycles of
technology advancements
and the clinical application
of those advancements*

Clayton Larsen



Research & Education Foundation Donors

THE BOARD OF TRUSTEES of the RSNA Research & Education Foundation and its recipients of research and educational grant support gratefully acknowledge the contributions made to the Foundation **May 28–June 29, 2004.**

For more information on Foundation activities, a quarterly newsletter, *Foundation X-aminer*, is available online at www.rsna.org/research/foundation/newsletters/x-aminer/x-aminer.pdf.

VANGUARD GROUP

Berlex Laboratories



\$105,000

A Vanguard Company since 2004

Eastman Kodak



\$50,000

Founding Vanguard Company (1989)

Canon Medical Systems



\$10,000

A Vanguard Company since 1999

EXHIBITOR'S CIRCLE

ONI Medical Systems, Inc.



ONI Medical Systems, Inc.

BRONZE \$1,000

RSNA PRESIDENT'S CIRCLE MEMBERS

\$1,500 per year

Johan G. Blickman, M.D., Ph.D.

Lucinda & Luther Creed, M.D.

Carrie Donaldson, M.D. & James S. Donaldson, M.D.

Peggy J. Fritzsche, M.D. & Anton N. Hasso, M.D.

Dorothy & Frank L. Hussey Jr., M.D.

Mary & Marvin D. Nelson Jr., M.D.

Vijay M. Rao, M.D.

Karen W. & Michael A. Sullivan, M.D.

Mutsumasa Takahashi, M.D. & Sayoko Takahashi

DIAMOND (\$10,000+)

Peggy J. Fritzsche, M.D. & Anton N. Hasso, M.D.

RUBY (\$5,000 - \$9,999)

American Association of Physicists in Medicine

PLATINUM (\$1,000 - \$4,999)

Sanjay Saini, M.D.

Elizabeth & Douglas W. MacEwan, M.D.

GOLD (\$500 - \$999)

Victoria & Michael N. Brant-Zawadzki, M.D.

SILVER (\$200 - \$499)

Earl R. Brown Jr., M.D.

Danny Chang, M.D.

G. David Dixon, M.D.

Garth R. Drewry, M.D.

Mangerira Chinnappa Uthappa, M.B.B.S.

Hao Vinh Vuong, M.D.

William C. Werthmuller, M.D.

BRONZE (\$1 - \$199)

Carole & Mostafa Atri, M.D.

Peter D. Giuliano, M.D.

David B. Koch, M.D.

Rodolfo E. Lim, M.D.

James E. Marks, M.D.

Emiko Miyakawa, M.D.

Julita Orozco Vazquez, M.D.

Orlando Santisteban Pro, M.D.

Dipakkumar S. Shah, M.D.

COMMEMORATIVE GIFTS

Nancy J. & Robert E. Campbell, M.D.

In memory of Betty Heitzman

Kenneth G. Carter, M.D.

In memory of James M. Packer, M.D.

David Foxman, M.D.

In memory of Alvin Segel, M.D.

Dorothy & Frank L. Hussey Jr., M.D.

In honor of Mary Buenger

Vijay Rao, M.D.

In memory of B.S. Madan, M.D.

Ira Silberman, M.D.

In honor of Bernard J. Ostrum, M.D.

Online donations can be made at www.rsna.org/research/foundation/donation.

Evaluate the Impact of Functional Images on Predicting Local Tumor Control and Lung Toxicity in the Treatment of Non Small Cell Lung Cancer”

- Martin Pilat, from the Louisiana State University Health Sciences Center in Shreveport, will use his Medical Student Departmental Program Grant for “Central Pancreatic Fluid Collection: Surgical or Percutaneous Drainage?” His scientific advisor/chairman is Horacio D’Agostino, M.D.

In addition to financial contributions, Fuji continues to support the radiology market with innovative products. One of Fuji’s newest product releases was Flex UI™, a computed

radiography (CR) software approach that provides caregivers full customization ability and quicker access to frequently used functions, allowing exams to be performed more quickly and easily. Flex UI will also have the ability to run on PDAs and tablets, allowing exams to be registered remotely, directly minimizing the risk for patient identification errors that can occur with traditional manual methods.

“By providing enhanced means for collecting and managing patient information, and coupling that with detailed image information, we can increase the quality, efficiency and consistency of the diagnostic radiology process,”

Larsen says. □

Information about the RSNA Research & Education Foundation is available online at www.rsna.org/research/foundation/index.html. For more information on becoming a member of the RSNA Research & Education Foundation Vanguard Group, contact Deborah Kröll at (630) 368-3742 or at dkroll@rsna.org. For more information on the Foundation’s grant programs, contact Scott Walter at (630) 571-7816 or at swalter@rsna.org.

Product News

NEW PRODUCT

Portable Assistant Improves CR Workflow

Konica Minolta Medical Imaging has introduced a new, portable, state-of-the-art companion product for the Xpress computed radiography (CR) system. The Xpress Portable Assistant is a lightweight exam and cassette identification tool for radiologists and technologists who need to perform CR exams ("portables") at the point of patient care. The hand-held device has a built-in barcode reader, touch-screen control with keypad and comes with a cradle and stylus.

"We are very excited about the potential of the new Konica Minolta Xpress Portable Assistant and the benefits it brings to our customers, especially in large and busy facilities where a great number of portable exams are performed every day," said Eunice Lin, Konica Minolta product marketing manager for CR & PACS.



NEW PRODUCT

Software Interface Offers User-defined Functionality

FUJIFILM Medical Systems USA has unveiled Flex UI™, the first CR software interface that enables users to define functionality according to predetermined departmental protocols.

Fuji's Flash IIP console was designed to automate processes and reduce the number of steps necessary to acquire an image. Flex UI was created to take the simplicity of operation a step further allowing quicker access to additional and frequently used functions. Users now have the option to custom-build screens and customize patient information fields, allowing additional patient data to be provided within the patient file.

Flex UI is compatible to a RIS/HIS outputting DICOM Worklist Management.



NEW PRODUCT

New Volume CT System

GE Healthcare has introduced a next-generation volume CT scanner. The LightSpeed VCT is able to capture an image of any organ in one second, scan the whole body in fewer than 10 seconds, and capture images of the heart and coronary arteries in fewer than five heartbeats.

In a single rotation, the system creates 64 submillimeter images, totaling 40 millimeters of anatomical coverage, which are combined to form a 3D view of the patient's anatomy.

"Noninvasive diagnostic imaging as we know it has turned a page," said W. Dennis Foley, M.D., chief of digital

imaging at Froedtert Hospital in Milwaukee and professor of radiology at the Medical College of Wisconsin. "This system provides unprecedented image quality almost instantaneously, which should offer significant impact in cardiovascular medicine and trauma imaging. The LightSpeed VCT also should improve imaging in neurology, oncology and other fields."

Froedtert Hospital was the site of the first LightSpeed VCT installation.

FDA APPROVAL

IntraStent® DoubleStrut™ Stent Approved

The Food and Drug Administration (FDA) has approved the IntraStent® DoubleStrut™ Stent, manufactured by ev3 Inc. The device is indicated for improving luminal diameter in symptomatic patients with atherosclerotic disease of the common and/or external iliac arteries up to 100 mm in length, with a reference vessel diameter of 5 to 10 mm.

The summary of safety, effectiveness and labeling is available at www.fda.gov/cdrh/pdf3/p030045a.pdf.



News about RSNA 2004

Badge Wallets

For North American attendees who register by **November 12, 2004**, badge wallets, containing their name badge, tickets and attendance vouchers will be mailed to them prior to RSNA 2004. Badge wallets will be sent to attendees from outside of North America two to three weeks before the meeting if their registration forms are received by **October 29, 2004**. International registration forms received October 30 – November 12 require badge wallets to be picked up at McCormick Place at Desk A in the Lakeside Center, Level 2, Hall E.

The badge wallet will include a free Metra Train System pass for access between McCormick Place and the Randolph Station during the seven days of RSNA 2004.

Shuttle Bus Service

RSNA offers shuttle bus service to and from McCormick Place. A dedicated bus lane makes the trip quick and easy, even during rush hours. The schedule is available online at www.rsna.org. Click on the annual meeting logo, then on Transportation and on Getting Around Chicago.

Children under the age of 16 will be allowed to ride on the RSNA shuttle buses; however, they still will not be allowed to attend the meeting. Onsite childcare will be available for children ages six months to 12 years through ACCENT on Children's Arrangements, Inc. Application forms are available on the www.rsna.org. Click on the annual meeting logo, then on Registration, Housing and Courses, then on Childcare.

Pocket Guide

Another important element of the badge wallet is the *RSNA Pocket Guide*. This pocket-size book is an easy-to-use reference to all the information attendees need to navigate the meeting.

Traveling to and from McCormick Place:

- Shuttle bus schedules, routes and boarding locations
- Taxi fees, loading and unloading areas
- Airport transportation service with times, cost and boarding information
- A complete Metra Train System schedule outlining station locations, times and drop-off destinations
- Parking lot locations, hours and fees

Overview of the RSNA Scientific Assembly and Annual Meeting:

- A complete A-Z listing of everything available to attendees
- Room assignments for the scientific sessions, refresher courses and plenary sessions
- Floor plans of each building and each floor of McCormick Place

This information is also available online at www.rsna.org. Click on the annual meeting logo, then on Transportation.



Register for RSNA 2004

Once you download the advance registration information or have it faxed to you, there are four easy ways to complete the registration process:

1 Internet

Go to www.rsna.org. Click on the annual meeting logo. Click on Registration, Housing and Course Enrollment, and then click on Internet Registration Enrollment.

Use your member ID# from the *RSNA News* label or registration brochure sent to you, or search by your last name and zip code. If you have questions, send an e-mail to reginfo@rsna.org.

2 Fax (24 hours)

(800) 521-6017
(847) 940-2386

3 Telephone (Monday–

Friday, 8:00 a.m.–
5:00 p.m. CT)
(800) 650-7018
(847) 940-2155

4 Mail

ITS/RSNA 2004
108 Wilmot Rd.,
Suite 400
Deerfield, IL
60015-0825 USA

Registration Fees

BY 11/12	ONSITE	
\$0	\$100	RSNA Member, AAPM Member
\$0	\$0	Member Presenter
\$0	\$0	RSNA Member-in-Training, RSNA Student Member and Technical Student
\$0	\$0	Non-Member Refresher Course Instructor, Paper Presenter, Poster Presenter, Education or Electronic (<i>infoRAD</i>) Exhibitor
\$110	\$210	Non-Member Resident/Trainee
\$110	\$210	Radiology Support Personnel
\$520	\$620	Non-Member Radiologist, Physicist or Physician
\$520	\$620	Hospital Executive, Commercial Research and Development Personnel, Healthcare Consultant, Industry Personnel
\$300	\$300	One-day badge registration to view only the Technical Exhibits area

For more information about registration at RSNA 2004, visit www.rsna.org, e-mail reginfo@rsna.org, or call (800) 381-6660 x7862.

Continued on next page

Continued from previous page

International Delegates

International attendees are strongly encouraged to **apply now for a visa**.

The U.S. Visit Program was launched in January 2004 to protect the safety of U.S. citizens and international visitors.

Beginning **September 30, 2004**, foreign visitors (including the 27 countries in the Visa Waiver Program) will be photographed and fingerprinted upon arrival at a U.S. air-

port or seaport. The processes take only a few seconds in most cases.

For more information, go to www.dhs.gov/us-visit.

Starting **October 26, 2004**, visa waiver travelers from all 27 Visa Waiver Program countries must present a machine-readable passport or a U.S. visa upon arrival to a U.S. airport or seaport. For more information, go to www.travel.state.gov/vwp.

Stay at One of Our Partner Hotels

To ensure getting the hotel of your choice for RSNA 2004, register for the meeting as soon as possible. The majority of hotels in the RSNA block still have rooms available.

Important Dates for RSNA 2004

Nov. 8	Housing deadline
Nov. 12	Advance registration deadline
Nov. 28–Dec. 3	RSNA 90th Scientific Assembly and Annual Meeting

RSNA 2004 Exhibitor News



Free Promotional Tools for Exhibitors

As part of the Technical Exhibitor Service Kit, RSNA has included free promotional tools to help exhibitors make potential customers aware of their presence at the annual meeting.

Postcards and flyers can be customized with an exhibitor's logo, message and exhibit location. Downloadable images are also available for the creation of other customized promotional materials.

Traditionally about 24,000 radiology professionals attend the RSNA annual meeting. To ensure your company gets maximum exposure, take advantage of the many promotional and advertising opportunities available.

Advertising vehicles include:

- RSNA Journals — *Radiology* and *RadioGraphics*
- *Pocket Guide*
- *Daily Bulletin*
- Sub-specialty content brochures
- *RSNA Link* (www.rsna.org)

- Coupon Book
- Motion Billboard
- Directional Signs

For more information, contact Jim Drew at (630) 571-7819 or jdrew@rsna.org.

New Exhibitors

RSNA 2004 will welcome 44 first-time exhibitors.

Exhibit Space Summary

(as of July 1, 2004)

By McCormick Place Building

TOTAL – 425,050 sq. ft.

South – 278,550 sq. ft.

North – 146,500 sq. ft.

By Exhibit Type

Technical – 539

Hands-on Computer Workshops – 5

Headquarters Office Space – 19

Publishers Row – 21

Mobile Units – 4

Technical Exhibitor Service Kit

Important exhibitor information is available in the RSNA 2004 Technical Exhibitor Service Kit at www.rsna.org. Near the annual meeting logo, click on the Technical Exhibitor link.

Service request forms are available for download and some contractors may provide online ordering. Exhibitors may also self-enter or edit company profiles. Technical Exhibitors should review and revise their information before September 30 in order for the most current company contact information to be included in the Meeting Guide section of the *Daily Bulletin*.

Important Exhibitor Dates for RSNA 2004

August 13	Deadline for final payment Deadline for reduction/cancellation (for partial refund)
August 16	Deadline to submit Block Housing room deposits
September 3	Deadline for submission of Free-Form/Peninsula/Mobile exhibit plans
September 20	Target Floor Plan assignments released Block housing rooming lists due
September 30	Exhibitor Profile changes due
October 13	Deadline for submission to <i>Daily Bulletin</i> New Products section
November 12	Exhibitor advance badge request deadline
Nov. 28–Dec. 3	RSNA 90th Scientific Assembly and Annual Meeting

■ For more information, contact RSNA Technical Exhibits at (800) 381-6660 x7851 or e-mail: exhibits@rsna.org.

www.rsna.org

RSNA 2004

RSNA Meeting Program

RSNA members can request their one printed copy of the *RSNA Meeting Program* through the home page. For more information, see page 2.

RSNA 2004 Highlights

Once at the RSNA 2004 meeting page, you can get an overview of the meeting by visiting the Highlights page in the left-hand column under Meeting Program.

A recent addition to the meeting site was the Transportation section, which contains information about get-

ting to and around Chicago.

The Tours and City Events section allows you to register online for city tours designed for you and your guests. You'll also find a link to the Welcome to Chicago site of the Chicago Convention and Tourism Bureau. That site has grown to include features on tourist attractions, restaurants, entertainment spots, a shopping directory and travel tips.



90th Scientific Assembly and Annual Meeting

November 28 – December 3, 2004
McCormick Place, Chicago

Technical Exhibitors

Another recent addition to the RSNA meeting site is an alphabetical directory of technical exhibitors that is driven by a database and also includes interactive floor plans of exhibition halls in the

North and South Buildings.

For a preview of the RSNA 2004 Technical Exhibition, go to www.rsna.org, click on the annual meeting logo, and then click on Technical Exhibition in the left-hand column.

Soon to Come

The fully searchable online version of the *RSNA Meeting Program* will be available in mid-September. Other areas of the meeting site, including the Message Center and Attendee Locator, will be available in November.

RadiologyInfo™ Adds New Content

Two new radiation therapy procedures have been added to *RadiologyInfo.org*. Patients can learn about:

- Stereotactic Radiosurgery (www.radiologyinfo.org/content/therapy/stereotactic.htm)
- Brain Tumors (www.radiologyinfo.org/content/therapy/thera-brain.htm)

The news section of *RadiologyInfo* now includes press releases from the RSNA journal *Radiology* and from the RSNA annual meeting that would be of interest to the general public. These releases are available at www.radiologyinfo.org/content/news/.



RadiologyInfo.org is cosponsored by the American College of Radiology.

OTHER WEB NEWS: NIBIB eAdvances

The National Institute of Biomedical Imaging and Bioengineering (NIBIB) has launched a new section on its Web site called NIBIB eAdvances (www.nibib.nih.gov/eAdvances/eAdvances.htm).

The section includes interesting information and colorful photos from the research of grantees supported by NIBIB in both the bioengineering and imaging areas. Among the items in the section so far:

- Quantum Dots Could Guide Surgeons
- Brain Scans on the Move
- Integrated Imaging May Improve Epilepsy Surgery
- Designer Bones

RSNA Link Recognized

RSNA Link was the site of the month in the May issue of *Medicine on the Net*, by COR Healthcare Resources. The publication called *RSNA Link* “impressive” and described in great detail the various offerings in the Education Portal and Publications areas.

The article is available at www.corhealth.com/MOTN/Default.asp. It is free for subscribers but non-subscribers have to pay \$6.95 to access the article.

In the same issue, *Medicine on the Net* gave a brief description of RSNA’s

award-winning patient education site, *RadiologyInfo.org*. The publication rated *RadiologyInfo* as “excellent” for content and interface, and as “very good” for style.



Medical Meetings September – October 2004

SEPTEMBER 3-5

American Institute of Ultrasound in Medicine (AIUM),
Sonography: A Broad Sweep, Palace Station Hotel, Las Vegas
• www.aium.org

SEPTEMBER 9-12

Society for Molecular Imaging (SMI), 3rd Annual Meeting,
Adam's Mark Hotel, St. Louis • www.molecularimaging.org

SEPTEMBER 10-12

Society for the Advancement of Women's Imaging (SAWI),
SAWI 2004 Symposium, Palace Hotel, San Francisco
• www.sawi.org

SEPTEMBER 12-15

Radiology Business Management Association (RBMA), 2004
Fall Educational Conference, Miami, Fla. • www.rbma.org

SEPTEMBER 22-24

Argentine Society of Radiology, 50th Argentine Congress of
Radiology, Diagnostic Imaging and Radiation Therapy, 8th
Argentine Congress of Ultrasonography, Sheraton Hotel &
Convention Center, Buenos Aires, Argentina • www.sar.org.ar

SEPTEMBER 25-29

Cardiovascular and Interventional Radiological Society of
Europe (CIRSE), Annual Meeting, Barcelona, Spain •
www.cirse.org

OCTOBER 1-5

North American Society for Cardiac Imaging (NASCI),
Cardiovascular Imaging 2004, Ritz-Carlton, Amelia Island, Fla.
• www.nasci.org

OCTOBER 3-7

American Society for Therapeutic Radiology and Oncology
(ASTRO), 46th Annual Meeting, Georgia World Congress
Center, Atlanta • www.astro.org

OCTOBER 6-9

International Skeletal Society (ISS), 31st Annual Refresher
Course, Westin Dragonara Resort, St. Julian's, Malta
• www.internationalskeletalsociety.com

OCTOBER 7-10

American College of Radiology Imaging Network (ACRIN),
Semi-Annual Meeting, Ritz-Carlton, Pentagon City, Arlington,
Va. • www.acrin.org

OCTOBER 18-22

American Osteopathic College of Radiology (AOCR),
Advances in Body MR, The Wyndham New Orleans at Canal
Place, New Orleans • www.aocr.org

OCTOBER 21-24

Royal Australian & New Zealand College of Radiologists
(RANZCR), 55th Annual Scientific Meeting, Perth Convention
& Exhibition Centre, Perth, Western Australia
• www.ranzcr.edu.au

OCTOBER 29-31

Society of Radiologists in Ultrasound (SRU), 14th Annual
Meeting, Marriott Wardman Park Hotel, Washington, D.C.
• www.sru.org

NOVEMBER 28-DECEMBER 3

RSNA 2004, 90th Scientific Assembly and Annual Meeting,
McCormick Place, Chicago • www.rsna.org

APRIL 19-22, 2005

10th International Conference on Occupational Respiratory
Diseases (10th ICORD), Occupational Respiratory Hazards in
the 21st Century: Best Practices for Prevention and Control,
Beijing, China • www.ICORD2005.com

connections Your online links to RSNA

RSNA Link

www.rsna.org

Radiology Online

radiology.rsna.org

Radiology Manuscript

Central
radiology.manuscriptcentral.com

RadioGraphics Online

radiographics.rsna.org

Education Portal

www.rsna.org/education/etoc.html

CME Credit Repository

www.rsna.org/cme

RSNA Medical Imaging

Resource Center
mirc.rsna.org

RSNA Career Connections

careers.rsna.org

RadiologyInfo™

RSNA-ACR public informa-
tion Web site
www.radiologyinfo.org

RSNA Press Releases

www.rsna.org/media

**RSNA Online Products
and Services**

www.rsna.org/member/services

RSNA Research & Education

Foundation Make a Donation
www.rsna.org/research/foundation/donation

Community of Science

www.rsna.org/research/cos.html

Membership Applications

www2.rsna.org/timssnet/mbrapp/main.cfm

DEADLINE SEPTEMBER 1st

**Printed RSNA Meeting
Program Request**
www.rsna.org/program



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