Fall 1983

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ABA
President-Elect
John C. Shepherd, J.D.
Wendell Scott Lecturer
President-Elect of ABA to Deliver Scott Lecture

John C. Shepherd, J.D., nationally recognized trial attorney and currently the President-Elect of the American Bar Association, will deliver the Twelfth Annual Wendell Scott Lecture at Mallinckrodt Institute on September 12. He will speak on “Modern Medicine, Modern Law, and Lasting Values” at 5:30 p.m. in Scarrellino Auditorium.

Widely recognized for his legal expertise and leadership skills, Mr. Shepherd is a speaker at many state bar association meetings and serves on the faculty of continuing legal education programs at the nation’s leading law schools. He was the Missouri Delegate to the American Bar Association for six years and is a former Chairman of the House of Delegates of the American Bar Association.

After serving in the United States Marine Corps, Mr. Shepherd attended Illinois College and received his J.D. from St. Louis University in 1951. Admitted to the Bar in Missouri and Illinois, he is active in both state organizations — serving as Chairman of the Medico-Legal Committee of the Missouri Bar and Chairman of the Admiralty Section of the Illinois Bar. He was President of the Bar Association of Metropolitan St. Louis in 1963.

Mr. Shepherd is a Fellow of the American Bar Foundation, American College of Trial Lawyers, and the International Academy of Trial Lawyers. He is also a member of the Maritime Law Association, the American Law Institute, the International Society of Barristers, and a former Director of the Society of Trial Lawyers of Illinois.

Mr. Shepherd has received an honorary Doctor of Laws degree from Illinois College and is the recipient of the Alumni Merit Award from St. Louis University. His community activities include the Board of Directors of the Barnes Hospital and the Municipal Theatre Association, and the Board of Overseers of the Hoover Institute at Stanford University in California.

The Wendell G. Scott Lecture was established by friends and colleagues of the late Dr. Scott as a living memorial to his excellence and leadership at Washington University and in radiology and medicine.

Mokhtar H. Gado, M.D., Named Vice-President of the Society of Neuroradiology

Mokhtar H. Gado, M.D., Professor of Radiology and Co-Chief of Neuroradiology Section at Mallinckrodt Institute, Washington University, has been elected Vice-President of the American Society of Neuroradiology, an organization of over 600 Board-certified radiologists concerned with the development of training standards and independent research in neuroradiology. (Senior membership in the society is by invitation only.) Dr. Gado took office as Vice-President at the 21st Annual Meeting of the Society, June 5-9, in San Francisco.

Born in Monoufiah, Egypt, in 1931, Dr. Gado attended Cairo University, Egypt, and received his medical degree in 1954. Following his residency training at Cairo University Hospital and Addenbrooke’s Hospital, Cambridge, England, Dr. Gado held fellowship and instructor positions in neuroradiology at the National Hospital for Nervous Diseases at London University. He came to the United States and Mallinckrodt Institute in 1970 and was appointed Chief of the Neuroradiology Section in 1971.

Certified by the Faculty of Radiologists in London and the American Board of Radiology, Dr. Gado is consultant to St. Louis Children’s, Deaconess, and City Hospitals. He has served on the Program Committee of the American Society of Neuroradiology since 1974.

Dr. Gado is an internationally recognized neuroradiologist whose research is reflected in over 90 scientific papers and textbook contributions.
Mallinckrodt Institute of Radiology has provided the first state-of-the-art NMR images in St. Louis. Studies of normal volunteers have been underway since the first week of August 1983. Using radio waves and a 3.5 kilogauss magnetic field, the NMR scanner produces three-dimensional images of the body. “The purpose of these initial examinations,” said Dr. William Murphy, Professor of Radiology and Co-Chairman of the committee coordinating NMR research and clinical projects, “is to familiarize the NMR committee (representing all diagnostic sections in the Institute) with imaging variables and normal anatomy. Many committee members participated in the evaluations.

“We are highly pleased with the Spin-Echo pulse sequences now available on the Siemens Magnetom,” continued Dr. Murphy. “These measurements permit creation of an image of the human body based on the distribution of the hydrogen proton in various tissues. Currently, the unit is capable of up to 5 simultaneous body or head sections obtained in approximately 13 minutes. Sections may be individually generated in axial, coronal, or sagittal planes. The axial plane is very similar to transmission computed tomography, but the coronal and sagittal planes offer a new perspective in medical imaging. Bones, muscles, vessels, brain, and spinal cord are particularly well demonstrated.”

An examination’s average length is an hour or more. During this time, the volunteer, or patient, lies on an examination table centered within the bore of the magnet. The patient feels no discomfort and is put further at ease with pillows and blankets. While an examination is underway, the patient communicates by a microphone and a set of earphones with the technical and radiological staff in the adjoining control room — where images of the patient’s body are being viewed on a television screen.

“During the next several months, we plan to continually test and clinically evaluate the capabilities of the NMR equipment,” said Dr. Murphy. “Such updates will include new pulse sequences, improved automation of various functions, and the ability to begin gated cardiac and respiratory tests. These improvements will greatly enhance the unit’s contributions to patient care.”

Dr. William Murphy prepares a volunteer for NMR examination at Mallinckrodt Institute. The $1.5 million imaging system is non-invasive, uses no radiation, and reveals detailed information about the body’s anatomy as well as the chemical composition and structure of the tissue.

(continued)
(NMR) Images — among the first — show the remarkable level of...

(Top left)
15 mm thick coronal section through abdomen showing aortoiliac arteries, inferior vena cava, branch vessels and liver. (first spin echo of 30 msec generated at 1500 msec pulse-sequence interval)

(Bottom left)
10 mm thick sagittal section through head and neck showing brain, brain stem, cervical spinal cord, vertebral column, pharynx, larynx and trachea. (first spin echo of 30 msec generated at 300 msec pulse-sequence interval)

(Bottom center left)
10 mm thick axial section through head showing orbits, brain and brain stem. (first spin echo of 30 msec generated at 1500 msec pulse-sequence interval)
obtained from volunteers of current achievement

(Top right)
10 mm thick axial section through the pelvis showing urinary bladder, rectum, acetabuli and femoral heads surrounded by muscles and subcutaneous fat. (first spin echo of 30 msec generated at 1500 msec pulse-sequence interval)

(Bottom right)
10 mm thick coronal section through pelvis showing aortoiliac arteries, ureters, bladder, prostate, hips and surrounding muscles and fatty tissue. (first spin echo of 30 msec generated at 1500 msec pulse-sequence interval)

(Bottom center right)
10 mm thick sagittal section through lumbosacral region showing vertebral bodies and intervertebral discs, bladder, rectum and urethra. (first spin echo of 30 msec generated at 1500 msec pulse interval)
Using image processing methods originally devised for reconstruction of craniofacial features from CT scans (FOCAL SPOT, Winter 1983), Drs. Michael Vannier and G. Leland Melson, with the technical assistance of Jean Barbier, have developed an efficient means of producing high-quality, 3-Dimensional surface images from ultrasound scans.

The system is based on a real-time ultrasound scanner usually used for examinations of the liver, kidneys, pancreas, and other organs. An experimental apparatus designed and constructed by Mr. Barbier provides precise, reproducible positioning of the transducer during water path scanning of various objects and anatomic specimens. Serial transverse images with 512×512×6 resolution (Fig. 1) have been acquired in much the same way a CT scanner takes slices of the body. These images are then processed to produce 3-D surface views of the object (Fig. 3).

Presently, this system has not been applied to clinical scanning. With technical improvements in the future, however, such techniques may be useful to understand complex anatomy and help plan the operative approach to mass lesions in the kidney or other abdominal organs.

Fig. 1 Transverse ultrasound scans through the frontal lobes (left) and temporal and parietal lobes (right) of a fixed dog brain.

Fig. 2 Photograph of top surface of the dog brain scanned in Fig. 1.

Fig. 3 Top surface view of dog brain reconstructed from transverse ultrasound scans.
Dr. Evens, 1983 Carman Lecturer

Ronald G. Evens, M.D., Elizabeth Mallinckrodt Professor and Director of Mallinckrodt Institute of Radiology, Washington University School of Medicine, will deliver the 40th Annual Carman Lecture for the Greater St. Louis Society of Radiologists and the St. Louis Metropolitan Medical Society on October 18, 1983. One of the most prestigious named lectureships in the United States, it was established in 1941 as a tribute to Dr. Russell D. Carman, pioneer radiologist and foremost authority, in his time, in gastrointestinal studies. Dr. Carman headed the Radiology Section at Washington University School of Medicine until 1911 when he became Chief of the Division of Radiology at Mayo Clinic, Rochester, Minnesota.

Dr. Evens will discuss the many pressures relating to the specialty of radiology in his talk, "Radiology 1984: Big Brother, Big Business, Big Technology, Big Change." Widely known for his studies of the clinical and socio-economic aspects of computed tomography, Dr. Evens has interest and expertise in all types of diagnostic imaging and in methods for improving the efficacy and effectiveness of health care delivery.

Dr. Evens is Radiologist-in-Chief at Barnes and St. Louis Children's Hospitals and has served as Head of the Department of Radiology at Washington University School of Medicine since 1971. He is treasurer of the Roentgen Ray Society, having served on the Executive Council since 1980; a past president of the Society of the Chairmen of Academic Radiology Departments; a fellow of the American College of Radiology; and past president of the Missouri Radiological Society.

Previous distinguished lecturers include: Henry Kaplan, M.D., Gilbert H. Fletcher, M.D., Harold G. Jacobson, M.D., Manuel Viamonte, Jr., M.D., Herbert Abrams, M.D., Thomas F. Meaney, M.D., Patrick F. Sheedy, II, M.D., and William D. Seaman, M.D.
A New Beginning
1983

Diagnostic Radiology
1st Postgraduate Year

Dr. Elizabeth B. Albright is a native Texan. Born in Abilene and an honor graduate of the University of Texas at Austin, she received a master's degree in nutritional biochemistry and metabolism from Massachusetts Institute of Technology. Returning to Texas, Dr. Albright completed the M.D. degree at the University of Texas Southwestern Medical School in Dallas where she was a member of AOA and recipient of the HO Din Award. The HO Din Award is the highest honor bestowed by the Southwest Medical Foundation to a graduating senior who most embodies the qualities of all great physicians. In her free time, Dr. Albright enjoys outdoor sports and refinishing antique furniture.

Dr. Inta Silvia Berzins was born in Aberdeen, South Dakota, and received her undergraduate degree in human biology from Stanford, California. Completing her M.D. degree at George Washington University in Washington, D.C., Dr. Berzins was a member of AOA and the recipient of the American Medical Women's Association Scholarship Achievement Citation. Married to Dr. Carl Rhodes, Assistant Director of the Division of Biomedical Sciences at Washington University, Dr. Berzins enjoys playing the piano and racquetball.

Dr. Debra Bolding, a native of Kansas, received her undergraduate degree from the University of California at Berkeley and her M.D. degree from U.C.S.F. A lover of winter and summer sports, Dr. Bolding enjoys sailing and skiing.

Dr. Thomas A. Getz from Seattle, Washington, was a geology major and Phi Beta Kappa graduate of Williams College, Williamstown, Massachusetts. During medical school at the University of Iowa at Iowa City, he was a member of AOA and received the distinction of being selected as commencement speaker for the University's graduation ceremonies. He was also the recipient of a Radcliffe Infirmary Clerkship Award to study medicine at Oxford University in England. His wife, Margaret, is a sculptor and museum administrator. Dr. Getz enjoys sailing and making stained glass lamps and panels.

Dr. Michael G. Karnaze chose his native state of Kansas and the University of Kansas to complete a bachelor's degree in chemistry and his medical degree. A member of Phi Beta Kappa and Alpha Omega Alpha, Dr. Karnaze is an amateur photographer as is his wife, Christal, a television news researcher. Dr. Karnaze's love of the outdoors is reflected in his hobbies of golf, tennis, fishing, and skiing.

Dr. Theresa Hubbert Reiman was born in Fayette, Alabama, and received a B.S. degree in chemistry and M.D. degree from Duke University at Durham, North Carolina. Married to Dr. Eric M. Reiman, a fourth-year psychiatry resident at Barnes Hospital, Dr. Reiman shares a like career with her husband and his enjoyment of racquetball. The Reimans have a 17-month-old daughter, Rebecca.

Dr. Jerry Tobler, a native of Elgin, Illinois, chose diverse geographic locations for his education and training. Graduating with distinction from Cornell University, Ithaca, New York, he received a B.S. in chemical engineering and became a member of national honor societies. He obtained a Ph.D. in biochemistry at the California Institute of Technology at Pasadena and completed his M.D. at
New Residents


Yale University in New Haven, Connecticut. A member of AOA, Dr. Tobler is proficient in scientific German and enjoys backpacking, hiking, and cross-country skiing. Dr. Tobler and his wife, Maura, a research associate, have two children, Jason 3, and Nina, 18 months.

2nd Postgraduate Year

Dr. William F. Conway, from Philadelphia, Pennsylvania, received his undergraduate degree in biophysics from Brown University in Providence, Rhode Island, and obtained a Ph.D. in genetics and his M.D. from the University of Chicago. A member of AOA, Dr. Conway completed an orthopedic internship at the University of Iowa Hospital and Clinics. In his leisure, he enjoys golf and soccer as well as singing and playing the accordion. His wife, Christine, a registered nurse, is also a sports lover.

Dr. Mark D. Fischer was born in St. Paul, Minnesota, where he received his B.A. in biology from the College of St. Thomas. A member of AOA, Dr. Fischer received his M.D. degree from the University of Minnesota at Minneapolis and served his internship through the Tucson Hospitals Medical Education Program. For recreation, Dr. Fischer plays tennis, racquetball, and softball.

Dr. Susan D. James took advantage of the academic excellence of Duke University in her native Durham, North Carolina, for her previous formal education. Obtaining a B.A. degree in anthropology with honors, she completed the M.D. degree and served an internship in surgery. During a first-year residency in diagnostic radiology, she carried out research projects in chest radiology. Dr. James’s hobbies are sewing and hiking.

Dr. Evan C. Unger comes from Sacramento, California, and his background includes championship ski racing, ski mountaineering, and placing 68th in the 1982 Ironman World Triathlon. An economics honor graduate of the University of California at Berkeley, Dr. Unger attended medical school and became a member of AOA at the University of California, San Francisco. While at U.C.S.F., he obtained training in cardiac radiology in Spain, rounding out his proficiency in Spanish and Spanish literature. He completed a medical internship at the University of Colorado in Denver. Dr. Unger’s wife, Susan, is a registered nurse, pianist, and former member of the tennis team at the University of California, San Diego. In off-hours and on weekends, Dr. Unger fills the important role of being father to his 22-month-old son, Wyatt.

Radiation Oncology

1st Postgraduate Year

Dr. William J. Pao was born in Hong Kong and speaks Chinese and English fluently. He comes to Mallinckrodt from Milwaukee, Wisconsin, where he was a biology major at Marquette University. A member of AOA, Dr. Pao received his M.D. degree from the Medical College of Wisconsin. In his free time, Dr. Pao enjoys scenic and sunset photography.

Dr. Susan J. Shapiro is a native of Chicago where she obtained a bachelor’s degree in biology and a M.S. in immunology from the University of Chicago. A graduate of the University of Illinois Medical School, Dr. Shapiro shares the same profession with her husband, Steven (an internal medicine intern at Barnes Hospital), as well as their enjoyment of sailing, swimming, tennis, and softball.
A New Beginning  (continued)

Nuclear Medicine

Dr. William J. Ganz, born in Munich, Germany, comes to Mallinckrodt as a fourth-year resident in Nuclear Medicine from Albert Einstein Medical School in Bronx, New York. At Einstein Medical School, Dr. Ganz obtained a M.D.M.S. degree and completed an internship in cardiovascular nuclear medicine as an NIH fellow. The recipient of various NIH grants and service awards, Dr. Ganz carried out research in immunology and NMR prior to a three-year diagnostic radiology residency at Bronx Municipal Hospital Center.

Dr. Karen Goodhope, third-year resident in Nuclear Medicine, was born in Hinsdale, Illinois, and received a bachelor's degree in chemistry from Beloit College, Wisconsin, and a medical degree from Southern Illinois University in Springfield. She served a three-year diagnostic radiology residency at Baystate Medical Center in Springfield, Massachusetts. In her free time, she enjoys reading and hiking.

Dr. Gilbert A. Hurwitz, in his sixth year of residency training, is a native of Toronto, Canada. He received his B.S. degree in biology and his M.D. from the University of Toronto. He completed an internship at Toronto's Sunnybrook Hospital and a medical residency at St. Paul's Hospital in Vancouver, B.C. Prior to coming to Mallinckrodt, Dr. Hurwitz was a faculty member in pharmacology and medicine at the Medical University of South Carolina. A member of AOA, Dr. Hurwitz and his wife, Rebecca, have a one-year-old daughter, Maggie. Their mutual hobbies are home computers and square dancing.

Chief resident, Dr. Robert Laakman, combines a pleasant, low-key personality with an obvious love of medicine. His determination to be a doctor since his senior year in high school took him through medical school at Washington University to Mallinckrodt's diagnostic radiology residency program.

Now, deeply involved in his fourth year of training, Dr. Laakman discusses what appeals to him most about radiology. "For myself, the scientific aspect of diagnosis is most exciting. I also like the fact that radiology is general. We deal with surgical, medical, and pediatric problems. In radiology, there are constant changes and advancements. With each advancement, there is a new field to master."

As chief resident to 35 diagnostic residents, Dr. Laakman's day-to-day administrative duties involve keeping residents up-to-date on the workings of Mallinckrodt, arranging noon conferences, and preparing the resident rotation and on-call schedules. "This fall, Dr. Adler and I will interview next year's resident candidates to provide resident input for the selection committee. Also, as members of the A3CR steering committee, we are preparing a national questionnaire for our colleagues researching how radiologists are trained at various medical schools and the present state of the job market."

During leisure hours, Dr. Laakman enjoys the outdoors and sharpening his culinary skills. Besides sharing the same profession, the Chief Resident and his wife, Sherlyn (involved in nursing education), anxiously look forward to packing up their camping gear (some of which dates back to Boy Scout days) and setting out for a float trip down the Jacks Fork River. "We look forward to the time when..."
of the Chiefs

our six-month-old son, Peter, will be old enough to join us on these outings," says Dr. Laakman.

Closer to home, the Chief Resident, of Dutch ancestry, appreciates his neighbors in South St. Louis. "They know how to pronounce my name (Lockman)."

Concerning his culinary skills, Dr. Laakman's fudge bars (he has been urged to patent the recipe), Chinese specialties, and pastries have gathered him a host of fans at Mallinckrodt. His determination in this pastime is as intense as in his medical career. For example, Dr. Laakman's apricot torte, involving layers on top of layers, takes hours to prepare. According to Dr. Laakman, "It's an all-night event. For proper results, I usually allow a preparation time from nine in the evening until three in the morning."

Robert Laakman, M.D.

Steven J. Adler, M.D.

Co-chief resident, Dr. Steven J. Adler, says it was his home environment in Brooklyn, New York, that led him to a career in medicine. His father, a hospital administrator, encouraged him during college to spend his summers working in hospitals and nursing homes. Through his mother's love for social work, Dr. Adler initially developed a desire for treating the total person, an appreciation for personal, patient-to-physician care. Later, during medical school at Washington University, Dr. Adler felt challenged by the "intellectual puzzle" of diagnosis — particularly in neurology. It wasn't until he found that neurological diagnosis grew less perplexing with the advent of CT and he took an "extremely interesting" radiology elective in his senior year that Dr. Adler decided what he wanted to do most in medicine. He determined that radiological diagnosis provided intellectual stimulation as well as the chance to work closely with patients.

Dr. Adler enjoys all the challenges radiology presents — whether it's teaching, the constant effort to gain precision, or his current responsibilities as this year's Co-Chief Resident. He best describes his new position as an extra job, or an additional undertaking to balance with his already busy schedule as a resident in training. Dr. Adler comments, "There are different degrees of difficulty. As a first-year resident, there is so much to learn. Everything is new. By the fourth year of training, you've increased your proficiency and had opportunities for teaching as well as learning."

Even though he had never lived outside of the East Coast before entering Washington University in 1976, Dr. Adler readily fell into the more relaxed pace and conservative lifestyle of St. Louis. Now, seven years later, the loves of many St. Louisans have become his own. He's as loyal to the St. Louis Symphony as he is to the baseball Cardinals; his backyard barbecue techniques can only be matched by experts; and he knows just where to go to get good "Brooklyn-style" Italian food. He's as much a St. Louis restaurant afficionado as he is an enthusiast of sailing on Lake Carlyle — even in stormy weather, when he and Dr. Murray Solomon were caught on the lake during a sudden thunderstorm. Commenting on the sights in St. Louis, Dr. Adler remarks, "One of my favorite places is Laumeier International Sculpture Park. Picnicking there amidst the unique sculpture is like having a picnic in an art museum — only you have the space to throw a frisbee!"
The Director’s Office Reports

Recent Promotions

Philip R. Ludbrook, M.D., to Professor of Radiology (primary appt. in Medicine)
G. Leland Melson, M.D., to Professor of Radiology
William A. Murphy, M.D., to Professor of Radiology
James A. Purdy, Ph.D., to Professor of Radiation Physics in Radiology
John M. Bedwinek, M.D., to Associate Professor of Radiology
Bahman Emami, M.D., to Associate Professor of Radiology
Glenn P. Glasgow, Ph.D., to Associate Professor of Radiation Physics in Radiology
Marilyn J. Siegel, M.D., to Associate Professor of Radiology
Patrick R.M. Thomas, M.D., to Associate Professor of Radiology
Frederick G. Abrath, Ph.D., to Assistant Professor of Radiation Physics in Radiology
Peter Herscovitch, M.D., to Assistant Professor of Radiation Sciences in Radiology
William J. Powers, M.D., to Assistant Professor of Radiology (primary appt. in Neurology)

William A. Murphy, M.D., to Professor of Radiology

Off Staff

Dr. Thorbjorn R. Amundsen completed two years of nuclear medicine training following an internship in internal medicine and pathology (one year each). He is now preparing for the American Board of Nuclear Medicine Exams in September 1983.

Kendall H. Barker, M.D., has entered a prepaid health plan, multi-specialty group practice, Northwest Permanente Physicians’ Corporation in Portland, Oregon, after completing a three-year diagnostic residency.

Lawrence L. Bauer, M.D., completed a four-year diagnostic radiology residency and has entered a private practice (diagnostic radiology and nuclear medicine) affiliated with Theda Clark Regional Medical Center in Neenah, Wisconsin.

Delia M. Garcia, M.D., has accepted an academic position as Assistant Professor of Radiology in the Department of Radiation Oncology at the Medical College of Virginia in Richmond after completing a three-year residency in radiation oncology.

Dale E. Johnston, M.D., completed a four-year diagnostic radiology residency and has joined a private practice corporation, Radiology Associates, in Little Rock, Arkansas.

James A. Junker, M.D., has joined the Scott Radiological Group, Inc., in St. Louis, after completing a three-year diagnostic residency.

Pamela A. Kopen, M.D., completed four years of diagnostic training and a one-year fellowship in pediatric radiology and is now residing in Huber Heights, Ohio.

Marie E. Lee, M.D., has entered a private practice radiology group at De Paul Hospital in Norfolk, Virginia. Dr. Lee completed one year of training in nuclear medicine within a five-year residency in diagnostic radiology.

Dr. Shameen Menon completed a three-year diagnostic radiology residency and has joined the clinical radiology staff of St. Mary’s Hospital in Centralia, Illinois, prior to moving to southern Massachusetts where her husband, Dr. Mani Menon, will accept the position of Chief of Urology at the University of Massachusetts at Wooster.

James W. Owen, M.D., Chief Resident in 1982-83, completed a three-year diagnostic residency and has joined Radiology and Nuclear Medicine, Inc., a private practice group in Topeka, Kansas.

Floyd E. Scales, M.D., completed four years of diagnostic radiology and has begun a fellowship in interventional radiology with Barry Katzen, M.D., private practitioner in Alexandria, Virginia.

Ralph L. Smathers, M.D., completed a one-year fellowship in abdominal radiology and has joined the staff of Stanford University, Stanford, California, as Assistant Professor of Diagnostic Radiology.

New Staff

Jay P. Heiken, M.D., Assistant Professor of Radiology, Abdominal Radiology

David Ling, M.D., Assistant Professor of Radiology, Abdominal Radiology

Ronald L. Johnston, Ph.D., Assistant Professor of Radiation Physics in Radiology

Carmen Dence, M.S., Research Assistant in Radiology (Radiation Sciences)

Daniel F. Mullen, D.D.S., Instructor in Radiation Oncology in Radiology

James Brodack, Ph.D., Research Associate in Radiology (Radiation Sciences)
Focus on Fellows

Dr. Charles L. Abramson, Instructor and Fellow in Neuroradiology, is a native of Brooklyn, New York, and completed his medical education at the University of Basel, Switzerland. Following an internship in medicine at Washington Hospital Center and a one-year medical residency at Lennel Shattner Hospital in Boston, Dr. Abramson completed three years of diagnostic radiology residency training at New England Medical Center. A major in the U.S. Army, he served two years at Reynolds Army Hospital prior to entering private radiology practice in St. Louis. Dr. Abramson has served on the clinical radiology faculties of both the University of Missouri, Kansas City, and Mallinckrodt Institute. Currently, Dr. Abramson is President of the Missouri State Radiological Society. Dr. Abramson and his wife, Esther, who is a shopowner specializing in Israeli handcrafts, enjoy music, photography, and fine cuisine. They have three sons, Nathaniel, 19, Benjamin, 15, and Jonathan, 11.

David J. DiSantis, M.D., has been appointed an Instructor and Fellow in Abdominal Radiology following the completion of three years of diagnostic radiology training at Mallinckrodt.

William J. Reinus, M.D., Instructor and Fellow in Musculoskeletal Radiology, completed a three-year diagnostic radiology residency at Mallinckrodt.

James B. Weinstein, M.D., has been appointed an Instructor and Fellow in Abdominal Radiology following the completion of a three-year diagnostic radiology residency.
Residents’ Farewell

MIR staff and friends gathered at the Washington University Alumni Club to mark the close of training for 1983’s senior residents and fellows on June 8th. Cocktails and hors d’oeuvres on the club terrace preceded the dinner.

Dr. Ronald Evens commended the performance of the senior residents and fellows and presented each with a plaque commemorating completion of training. The residents then took advantage of the occasion to bestow “awards” of their own upon the senior staff members, with none being safe from a good-natured barb.

The program closed with two special presentations by the Chief Residents, Drs. Jim Owen and Jerry Van Dyke. Neuroradiology fellow, Dr. Franz J. Wippold received the Fellows’ Teaching Award, and Dr. Dennis Balfe of the Abdominal Radiology Section was presented with the Annual Senior Residents’ Distinguished Teaching Award, honoring the staff member making the greatest contribution to resident education.

Dr. Dave DiSantis reflected the appreciation of his colleagues for this innovation, “Both awards were richly deserved and provided a fitting tribute during the final gathering of the class of ‘83.”
NEWS UPDATE

Fellowship in American College of Radiology

Bruce L. McClennan, M.D., Professor of Radiology and Chief of Abdominal Radiology, will be named a 1983 Fellow of the American College of Radiology during the College's 60th Annual Meeting in Denver, Colorado, on September 26-28.

Awards and Honors

Glenn P. Glasgow, Ph.D., Associate Professor of Radiation Physics in Radiology, has been awarded a one-year Bio-Medical Research Support Grant of $4,500 from the National Institutes of Health (NIH). Dr. Glasgow will use the grant to investigate an improved method of treating melanomas of the eye and other intraocular lesions. This grant is part of a larger funding awarded to Washington University by NIH for pilot research projects by young faculty members. Dr. Glasgow is one of only three Certified Health Physicists in the state of Missouri.

Elected

William McAlister, M.D., has been elected a Councilor of the St. Louis Metropolitan Medical Society for a three-year term. He presently serves as Chairman of the Society’s Science Fair Medical Committee.

Glenn P. Glasgow, Ph.D., has been elected Councilman to the Greater St. Louis Chapter of the Health Physics Society.

Guest Faculty/Visiting Professors/Meetings

Bruce L. McClennan, M.D., was the Guest Professor at a genitourinary imaging meeting held at the Don K. Ranch in Pueblo, Colorado, July 3-9. He lectured on urography, CT, and digital vascular imaging.

Ralph Clayman, M.D., Assistant Professor of Urology at the University of Minnesota, was Visiting Professor at Mallinckrodt Institute on July 14-15 and participated in percutaneous endoscopic procedures with Drs. Bruce McClennan and Philip Weyman as well as cases involving percutaneous renal stone extraction.

Louis A. Gilula, M.D., was Visiting Professor at the University of California, San Diego, and Veteran’s Administration Hospitals, San Diego, August 25-26.

Conferences/Symposiums/Workshops

Stuart S. Sagel, M.D., made CT presentations at the Spring Radiology Conference in Washington, D.C., April 25-29, and the University of Pennsylvania Summer Radiology Conference at Martha’s Vineyard, Massachusetts, July 11-15. Dr. Sagel also chaired a two-day summer course for the Society of Computed Body Tomography, August 5-7 at Keystone, Colorado. Joseph K.T. Lee, M.D., also participated.

J.P. Neely, M.D., presented “Practical Considerations in Digital Coronary Angiography” at the Picture Archiving and Communication Meeting of the Society for Photo-Optical Instrumentation Engineering (SPIE) in Kansas City, Missouri, May 25.

Patrick Thomas, M.D., attended the National Wilm’s Tumor Study in Seattle, Washington, on July 5th.

Barry Siegel, M.D., presented “The Medical Generator’s Needs” at the Eleventh Annual Missouri Waste Management Conference held in Columbia, Missouri, July 18-19.

Glenn P. Glasgow, Ph.D., presented a seminar on “Ophthalmic Applicator Dosimetry” at the National Bureau of Standards, Washington, D.C., on August 5.

Louis A. Gilula, M.D., presented a refresher course, “Bone Biopsy and CT of the Musculoskeletal System” at the Interamerican Congress of Radiology in Guadalajara, Mexico, August 29-30.

MIR Alumni News

The Greater St. Louis Society of Radiologists elected the following officers at its April 19, 1983 meeting: Christopher J. Moran, M.D. (76), president; E. Richard Graviss, M.D. (74), vice president; and Gene L. Davis, Jr., M.D. (78), secretary-treasurer.
James A. Purdy, Ph.D., Named President-Elect

James A. Purdy, Ph.D., Professor of Radiation Physics in Radiology at Mallinckrodt Institute and Washington University School of Medicine, has been elected President-elect of the American Association of Physicists in Medicine (AAPM). His election was announced at the 25th Annual meeting of the Society held July 31–August 4 at the Waldorf Astoria Hotel in New York City. He will be installed as president of the organization in January 1985.

The AAPM has a membership of over 2,000 and is the largest organized body of medical physicists in any country. The purposes of AAPM are to promote the application of physics to medicine and biology, to encourage interest and training in medical physics and related fields, and to prepare and disseminate scientific and technical information regarding medical physics. AAPM plays a significant role in promoting the delivery of high-quality healthcare to the public. In particular, medical physicists have made important contributions to medical practice, especially in the diagnosis and treatment of cancer.

Dr. Purdy received his master's degree in physics from the University of Texas in 1968 and a doctorate in nuclear physics in 1971. Immediately thereafter, he received a National Institute of Health Fellowship to study medical physics at the M.D. Anderson Hospital and Tumor Institute in Houston. Dr. Purdy joined the staff of Mallinckrodt Institute in 1973 and was appointed Chief of the Radiation Physics Section in the Division of Radiation Oncology in 1976.

Dr. Purdy's major research interests in clinical dosimetry, high energy photon and electron beam dosimetry, computer treatment planning, linear accelerator treatment aid accessory development, and quality assurance instrumentation, are reflected in more than 100 scientific manuscripts, chapters, published abstracts, and scientific exhibits.

An active member in the American Association of Physicists in Medicine, he has served as Chairman of Radiation Therapy and other committees and as a member of the Board of Directors, he is also active in the served on several committees of the American Society of Therapeutic Radiologists (ASTR) and the American College of Radiology.

Dr. Purdy is a frequent speaker at many national meetings and symposia. He has served on the faculty of the AAPM Summer School, is a past President of the Missouri River Valley Chapter of the American Association of Medicine, and was the recipient of the ASTR's Silver Plaque Award for a scientific exhibit in 1978.

Complete Summer Oncology Fellowship

The MIR Division of Radiation Oncology continues to be a leader in the development of opportunities which provide medical students with "hands-on" experience in therapeutic radiology as well as instruction in basic radiation physics, radiation safety, and scientific research.

In keeping with this tradition, the Division successfully concluded the 1983 summer session coordinated by Joseph R. Simpson, M.D., for the purpose of exposing first-year medical students from Washington University and other institutions to the clinical and basic science aspects of oncology.

The six medical students participating in the program either worked primarily in clinical radiation therapy or carried out laboratory research in cancer biology.
Evan C. Unger, M.D., and Competitor
MIR at the
IRONMAN TRIATHLON

"Radiology led me to the triathlon," says Evan C. Unger, M.D. "It was through the encouragement of Dr. Clyde Helms, a bone radiologist at the University of California, San Francisco, that I decided to compete in the Ironman Triathlon. While there, I met several other radiologists including Dr. Charles Gooding and two others on the U.C. San Francisco faculty. In fact, of the physicians competing in the triathlon, most were radiologists."

Considered the premier triathlon and one of the ultimate endurance events in the world, the Ironman Triathlon takes place once a year in Hawaii. This competition consists of three events held back to back without stopping — a 2.4-mile open ocean swim — a 112-mile bike race — and a full marathon 26.2-mile run.

A major sports event, the Ironman is telescop each year by the "Wide World of Sports."

Presently, Dr. Unger, a resident at the Mallinckrodt Institute, is preparing for his second Ironman Triathlon. In the 1982 triathlon, after eight weeks of training, Dr. Unger finished 68th (in 11 hours and twenty minutes) out of 700 competitors. According to Dr. Unger, "The swim was the toughest part. The Pacific Ocean was unusually cold, the temperature in the 60's. When I finished, my fingers were too cold to tie my shoe laces. The cycling was exciting. I felt at home on my bike and passed a steady stream of riders. The thousands of people in the crowd were a constant source of encouragement and energy. The marathon was tough. I had to concentrate on not letting my quadriceps tighten up."

This year, the Ironman will be held on October 22nd. With 16 weeks of training planned (twice the amount of last year), Dr. Unger feels he will be in better shape than ever before. He has to work his training around the demanding schedule at the Institute. He says, "Each morning I get up at 5:00 and commute to and from work alternating running and cycling. Swimming is worked in either before or after work. During the weekdays, I do 2 to 3 events each day, run from 7 to 20 miles, bike from 20 to 50 miles, and swim from 1 to 2.5 miles. On the weekends, I try to do one day of sequential training in the triathlon format: First swim from 1 to 3 miles, then ride between 40 to 100 miles, followed by a run of 7 to 20 miles. My total weekly training averages 4 to 6 miles’ swimming, 200 miles’ bike racing, and 60 miles’ running."

Commenting on the demanding aspects of his training, Dr. Unger says, "Preparation for this triathlon strains professional and family life — in fact, it involves a great deal of personal sacrifice. However, it’s also a challenge. There is a bliss which comes from being in top physical condition. The competition and training are hard, but also fun and exciting."

Staying in top physical condition has been a mainstay goal for Dr. Unger and his wife, Susan, a registered nurse. During his internship at the University of Colorado, Dr. Unger commuted to and from work by running. He completed the Pikes Peak marathon, a 28.6-mile run to the top, then down from 14,100-foot-high Pikes Peak, and the 26.2-mile Denver Mile High marathon. While attending the University of California, San Diego, Susan competed on the university’s tennis team. The couple have a road-racing tandem bicycle which they have raced together in a 200-mile road race and used on a 1,000-mile bicycle tour in Spain. Sometimes, their 22-month-old son, Wyatt, goes with them on a specially built trailer.

Even with such impressive athletic pursuits and achievements, Dr. Unger believes becoming a radiologist is as great a task. "I feel very positive about the triathlon and even more positive about radiology. Radiology is as or more challenging intellectually than the triathlon is physically."
What People Are Saying About MIR Text

“Computed Body Tomography,” Mallinckrodt Institute’s landmark publication, has received international interest since published in November 1982. Medical reviewers from both the United States and foreign countries express enthusiasm for the comprehensive text authored by thirty Mallinckrodt staff members and edited by Drs. Stuart S. Sagel, Professor of Radiology, Joseph K.T. Lee, Associate Professor of Radiology (both of Mallinckrodt), and Robert J. Stanley. The following are excerpts from reviews in various journals:

“...a good example of a CT encyclopedia of the human body... worthy of every radiology library... 16 chapters, each one of which is dedicated to the CT examination of a precise body area... the editors employ the expertise of the authors in their areas of special competence... easy readability... splendid images.”

G. Gardani
La Radiologica Medica

“Is there sufficient evidence that tomodensitometry is superior to echotomography? This work responds with clarity and vigor and affirms the unquestioned quality of the tomodensitometric exam from numerous impressions... a work which is easily usable for one who prescribes, as well as for one who reads, tomodensitometric exams.”

H. Nahum
La Presse Medicale

“...few surgeons have received any formal instructions either in cross-section anatomy or in the interpretation of CT scans. For them this book is a worthwhile primer... although each chapter has a different author the style is both clear and consistent... its format is such that the surgeon can use it to help decide 'when' to do a CT scan.”

A. Young
British Journal of Surgery

“Since the clinical introduction of CT in 1972, image quality has been dramatically improved, and the application of the method has become very sophisticated. This book reflects both these achievements. The book is divided into anatomic regions. Each chapter thus is roughly based on organ systems — e.g., larynx, mediastinum, pancreas, adrenals, and pelvis... for each region, anatomic abnormalities are depicted, and differential diagnosis is provided... the text is lucid and contains up-to-date references... the guidelines on CT technique are repeated at the beginning of each chapter... each chapter a complete entity... an asset for quick referral... any physician whose patients stand to gain from a CT examination would benefit from the material provided... not just in the interpretation of studies but also in avoiding unnecessary ones.

Sajay Saini, M.D.
Massachusetts General Hospital
The New England Journal of Medicine

“A comprehensive text on the application of computed body tomography to the extracranial regions of the human body... anatomy in each area is stressed... instruction is provided to optimize the conduct, analysis, and interpretation of computed tomography.”

Biological Abstracts

“This book is at one time a remarkable work of CT interpretation and an objective restatement of the information which morphological study of each region could furnish. With remarkable illustrations, the work is made up of 21 chapters which cover the whole of the possibilities offered by recent equipment... the last chapters on comparative imagery (tomography, sonography, isotopes) and on the socio-economic aspects are not without interest... the diagnostic approach and the conclusions are objective... the quality of the images is excellent and the illustrations are often compared with other means of investigation... a basic work which should certainly be of interest to radiologists in particular, but equally should interest all gastroenterology specialists... the 30 or so authors... have known how to realize a very complete, clear and rich, imposing work.”

F. Goubault
Gastroenterologie Clinique et Biologique

“This publication gathers the cooperative efforts of the distinguished members of the Mallinckrodt Institute of Radiology of the Washington University School of Medicine, St. Louis, to present their large experience of CT in all the extracranial regions of the body... the technical quality of this atlas is commensurate with the excellence of the text and hundreds of superb illustrations... this encyclopedia of CT deserves to be in the personal library of all radiologists and also on the shelves of all institutions dedicated to learning.”

Acta Cardiologica

“...the overall organization and form are excellent as are the illustrations. The text is clear and concise... I feel this book should be one of the basic volumes in a CT library.”

Melvyn L. Weiner
American Journal of Roentgenology
Residents, Fellows, and Trainees


Front row, left, Drs. Siegel, Cieply, deSevilla, Colburn, Chief Resident, Evans, Radiologist-in-Chief and Director of MIR, Francis, Co-Chief Resident, Scheible, Graviss, Jost, Geisse. Center row, Drs. Keller, MacMahon, Bleiweiss, Murphy, Bliznak, Palagallo, Carls, Merlis, Zivnuska, and Aring. Back row, Drs. Bates, Mikhail, Anderson, Bramson, Resnick, Coleman, Welch, Arnold, Cacciarelli.

Residents and Fellows 1966–1967

Congratulations, Graduates
Class of '83 Graduates 23 Radiologic Technologists


Radiation Oncology


Nuclear Medicine

Front row, left, C.N.M.T.s, Carol Francesca Barbier, Theresa Cole, Karen Nikolaisen. Back row, left, Bill Schrader, Larry Tucker, Michele Roth.
Framing

Welcome, New Students

24 Students Enrolled in MIR Radiologic Technology


Radiation Oncology


Nuclear Medicine

The Mallinckrodt Award, the highest award going to a radiologic technology student, based on academic achievement, scientific contribution, leadership ability, and loyalty to MIR, is presented to Kevin Marquart, R.T., by Mary Kimberlin, R.T.B.A., and Program Director, Mallinckrodt School of Radiologic Technology.

The Mallinckrodt Award, the highest award going to a radiologic technology student, based on academic achievement, scientific contribution, leadership ability, and loyalty to MIR, is presented to Kevin Marquart, R.T., by Mary Kimberlin, R.T.B.A., and Program Director, Mallinckrodt School of Radiologic Technology.

The MIR School of Radiologic Technology held graduation ceremonies on June 30 at Henry VIII. Attending were MIR faculty and families and friends of the 23 graduates. Following cocktails and dinner, Armand Diaz, R.N.R.T., F.A.S.R.T., MIR Technical Administrator and Director of Education, addressed the new radiologic technologists on “Future Goals” and offered congratulatory remarks. He presented special awards to Kevin Marquart, Timothy McNabb, and Carol Bernier.

The program also included remarks on behalf of the graduating class by Pamela Robedeau; “A Glance at the Future,” by Cindy Weber and Sue King; and a slide presentation conjuring up memories of past years. The graduates presented gifts of appreciation to Mr. Diaz, Mary Kimberlin, R.T.B.A., and Program Director, MIR School of Radiologic Technology, and Harriet Fieweger, Administrative Secretary.

Ms. Kimberlin joined Mr. Diaz in presenting certificates commemorating the students’ completion of 24 months of academic and clinical training. The evening concluded with musical entertainment by Jeff Bartholic, vocalist, and Walter Gibson, pianist, both graduates.

The Technologists’ Graduation

Mary Kimberlin offers congratulations to Timothy McNabb, R.T., recipient of the Special Recognition Award and Carol Bernier, R.T., recipient of the Perfect Attendance Award.
Medical Transcriptionists Hold National Meeting in St. Louis

Certified medical transcriptionists (CMT) from Mallinckrodt Institute are key planners for the 1983 Annual Meeting of the American Association of Medical Transcriptionists to be held in St. Louis, September 28–October 2. Approximately 1500 attendees are expected. Chairing principal committees are Susan Ratliff, On-site Registration and Assistant Planning Coordinator; Jacqueline Rudolph, Facilities; Sharon Keathley, Administrative Office; and Sheila Doerhoff, Historical Exhibit of 63 area-wide hospitals.

The meeting, “Exploring the Age of Information,” will include 29 hours of medical lectures by noted physicians and surgeons. Mallinckrodt physicians presenting medical lectures (which are CME approved by the American Medical Record Association) are Louis Gilula, M.D., “Musculoskeletal Radiology”; Michael Vannier, M.D., “Facecraft: Computer-Aided Design of the Human Face”; and Christopher Moran, M.D., “Brain Biopsies.” Robert Wagner, MIR Business Administrator, will join other management experts in a full-day panel presentation covering topics such as employee incentive plans and hospital contract services. In addition to workshops directed toward writers, teachers, and supervisors, medical transcription experts from around the country will discuss when and how to edit dictation to achieve clear medical communication.

During the American Cancer Society's Daffodil Day 1983, businesses and individuals throughout the state of Missouri were able to buy daffodils and help cancer research at the same time. This was largely due to the efforts of Joy Harvey, administrative assistant in Mallinckrodt's Division of Radiation Oncology. As state-wide "Ninety-Nines'" Daffodil Day chairman, Joy organized 15 to 20 women pilots to fly nearly 125,000 fresh daffodils to 20 airports in Missouri. The Ninety-Nines, an international organization of women pilots, are named after the original number who banded together in 1929 under the leadership of Amelia Earhart.

Joy and her team of volunteers offered unselfish assistance by delivering daffodils in their private planes from the Spirit of St. Louis Airport to other Missouri communities. In spite of problems with weather, coordinating schedules of departures and arrivals, and fitting the right number of boxes into the right airplane, the Ninety-Nines' contribution of time, money, and effort helped raise a state-wide amount of $48,500 for cancer research. The Cancer Society chose the daffodil because it is the first flower of spring, symbolizing the hope of the new season and a world free of cancer.
Volunteers at MIR

Valuable resources at Mallinckrodt Institute are Barnes Hospital volunteers — as they enhance patient care by their willingness to help and quality of service. During the summer of 1983, eleven junior volunteers joined Ed Thompson, Mattie Johnson and Helen Boyles, year-round volunteers.

Mark Wyers divides his time between three different areas of Mallinckrodt: Radiation Oncology, Diagnostic Radiology, and Nuclear Medicine. His duties include preparing x-ray films for mailing, making up chart packets, transporting patients, distributing magazines to patient waiting areas, and delivering x-ray pamphlets.

Mrs. Indiradevi Veeramachaneni came from India to visit her daughter, Dr. Vijayalakshmi Vallyvarupalli, Barnes Hospital anesthesiologist. Not content to sit at home, she requested a volunteer assignment as a library assistant. Quickly adapting to the MIR staff library procedures, Indira provides valuable assistance in library operations.

Sarah Meyer delivers as many as 60 informational x-ray pamphlets a day to patients throughout the hospital.
CITY-WIDE RADIOLOGY CONFERENCE
St. Louis, Missouri, 1983-1984

DATE  TOPIC AND PLACE  SPEAKER  RESPONSIBILITY FOR CLINICAL MATERIAL
9/12/83 Wendell G. Scott Lecture  Mr. John Shepherd  Second Session (7:15–8:30 p.m.)
(Monday)  President-Elect  No Second Session
American Bar Association
9/12/83 GU – CT  Morton A. Bosniak, M.D.  Abdominal Section — MIR
(Monday)  Professor of Radiology
New York University
11/14/83 No City-Wide — RSNA  Neuroradiology Section — MIR
11/14/83 Advanced Imaging of  Meredith A. Weinstein, M.D.
the Brain and Spine  Head, Section of Neuroradiological NMR
11/14/83 St. Louis University  Johns Hopkins University
(Monday)  Cleveland Clinics
1/9/84 St. Louis University  John P. Dorst, M.D.
(Monday)  Professor of Radiology and Pediatrics
2/6/84 CT Chest  W. Richard Webb, M.D.
(Monday)  Associate Professor of Radiology
University of California School of Medicine, San Francisco
3/12/84 NMR  To Be Announced
3/12/84 Leroy Sante Lecture  William A. Murphy, M.D., and
(Monday)  B.G. Brogdon, M.D.
St. Louis University  Michel Ter-Pogossian, Ph.D.
4/25/84 Angiography and Embolization of  Musculoskeletal Section — MIR
(Monday)  Yorem Ben Menachem, M.D.
5/14/84 Pelvic and Extremity  Professor of Radiology
(Monday)  University of Texas at Houston
5/14/84 Musculoskeletal Section — MIR
5/14/84 Trauma  Armand Brodeur, M.D.
St. Louis University  Cardinal Glennon

Library Memorial

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Dr. & Mrs. Barry A. Siegel  Esther Hazel Lupkey  Rev. Dr. Thomas Cannon
Rose Marie Smith  Esther Hazel Lupkey  Rev. Dr. Thomas Cannon
Virginia Trent  Mrs. Marian Volmer  Rev. Dr. Thomas Cannon
Friends in Radiation Oncology,  Mrs. Marian Volmer  Rev. Dr. Thomas Cannon
Tarry Drake, Fran Hirsch, Marlene  Mrs. Clarence Hofstad  Rev. Dr. Thomas Cannon
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Rose Marie Smith  Mrs. Louis Waters  Rev. Dr. Thomas Cannon
Dr. & Mrs. William McAlister  Dr. & Mrs. Leyland Thomas  Mr. John H. Holloway

IN MEMORY OF
W. Gordon Smith
Dr. Robert Frech

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# MIR Calendar of Events

**September 12, 1983**  
**WENDELL G. SCOTT LECTURE**  
Scarpellino Auditorium  
Mallinckrodt Institute, 5:30 p.m.

**September 14-17, 1983**  
**MISSOURI SOCIETY OF RADIOLOGIC TECHNOLOGISTS ANNUAL MEETING**  
Columbia, Missouri

**September 22, 1983**  
**4TH DISTRICT MSRT MEETING**  
Jewish Hospital, 7:30 p.m.

**September 26-29, 1983**  
**AMERICAN COLLEGE OF RADIOLOGY**  
Denver, Colorado

**September 28 – October 2, 1983**  
**1983 ANNUAL MEETING, AAMT**  
American Association of Medical Transcriptionists  
St. Louis, Missouri

**October 3-7, 1983**  
**AMERICAN SOCIETY OF THERAPEUTIC RADIOLOGISTS**  
Los Angeles, California

**October 10, 1983**  
**CITY WIDE RADIOLOGY CONFERENCE**  
Scarpellino Auditorium  
Mallinckrodt Institute, 5:30 p.m.

**October 18, 1983**  
**CARMAN LECTURE**  
University Club Building  
6:00 p.m.

**October 20, 1983**  
**4TH DISTRICT MSRT MEETING**  
Scarpellino Auditorium  
Mallinckrodt Institute, 7:30 p.m.

**November 7-13, 1983**  
**NATIONAL RADIOLOGIC TECHNOLOGY WEEK**

**November 13-18, 1983**  
**RADIOLOGICAL SOCIETY OF NORTH AMERICA**  
Chicago, Illinois

**December 1, 1983**  
**ELEVENTH ANNUAL DIAZ LECTURESHIP**  
Scarpellino Auditorium  
Mallinckrodt Institute, 7:30 p.m.