Godfrey Newbold Hounsfield, British inventor of the revolutionary computed tomography scanner system, was honored by Mallinckrodt Institute of Radiology in 1976, when he presented the fifth annual Wendell G. Scott Memorial Lecture. Three years later, Hounsfield was named co-winner of the 1979 Nobel Prize for medicine for inventing this X-ray technique that enables physicians to see more clearly and safely than ever before within the human body.

Sharing the $190,000 Nobel prize with Hounsfield, who is 60 and an electronics engineer at EMI, will be physicist, Allan McCleod Carmack, 55, from Tufts University in Medford, Mass.

Mallinckrodt Institute, in 1975, was the first in the world to receive the whole body scanner. In 1973 the Institute began operation of one of the first brain scanners.

Dr. Ronald G. Evens, Director of Mallinckrodt, has collaborated with Hounsfield on his more than ten visits to the Institute as, over the years, Dr. Evens and Mallinckrodt scientists and clinicians have helped to adapt the body scanner for clinical use at the Institute before the machines were developed for use throughout the world.

In computed tomography, the scanner becomes a rotating X-ray through a cross-section of the body from every angle and feeds the information back into a computer that provides a picture of the “slice” of the brain or other organ being examined. The first scanner was used to diagnose brain injuries and tumors. Hounsfield then transferred this method of scanning to the whole body by modifying the brain scanner which obtained a scan in 4 minutes, so that it required only 18 seconds for a scan.

Dr. Evens said in an interview with the New York Times that “modern neurology and neurosurgery cannot be practised without a CAT scanner” because it has so changed the care of patients.

The $600,000 body scanner has been shown to be important in more accurate and faster diagnosis of liver tumors, bile obstructions, tumors and infections of the pancreas, cancer of the lymph system, adrenal tumors, and all types of tumors of the pelvic area.

The Nobel Committee said in its citation: “It is no exaggeration to state that no other method within X-ray diagnostics within such a short period of time has led to such remarkable advances in research and in a multitude of applications as computer-assisted tomography.”

THE COVER

The mixed media montage symbolizes the gamut of activities within Mallinckrodt Institute’s tradition of teaching, excellent patient care based on diagnosis and treatment, and research.

Drs. Ronald Evens, left, Stuart Sagel and Robert Stanley discussing newer CT procedures with Mr. Godfrey Hounsfield in 1976.
1979 Gridiron Proceeds Donated

The Advertising Federation of St. Louis, Inc. presented $12,000 in proceeds from their 45th annual Gridiron Show to Mallinckrodt Institute at Barnard Hospital for the development of a cytofluorometry facility, equipment of key importance to present and future research in cancer biology.

According to Dr. Ronald Evens, Elizabeth Mallinckrodt Professor and Director of the Institute, the use of this technology to study and analyze cell populations within tumors will have a definite impact on cancer therapy, particularly in the evaluation of the response of these cells to radiation or combinations of anti-cancer drugs.

Flow cytometry will define and separate different populations of cells within myeloma tumors, based upon their staining with specific dyes. This sophisticated instrument will detect and isolate cancer cells of the breast, uterus, and prostate and make possible the study of the body’s normal defense against malignant cell growth through the analysis of both normal and malignant cell populations.

Dr. Carlos Perez, Director of the MIR Division of Radiation Oncology, compared the importance of flow cytometry to tumor biology with that of CAT scanning to radiology. Both couple sophisticated electronics to advanced computer control and data analysis.

Among those present at the check awarding luncheon were Ms. Irma Strzelec, 1978-79 AFSL President, Mrs. Wendell G. Scott, Vice-President of the Barnard Hospital Board of Directors, and Dr. Ronald Evens, Elizabeth Mallinckrodt Professor and Director of the Institute.

Dr. Evens Consulted on Radiology Issues

With increased interest in questions about radiation dose, Dr. Ronald Evens, Mallinckrodt Institute Director, was featured on the KMOX Radio program “At Your Service” May 31. Dr. Evens discussed radiation and the dangers inherent in nuclear power. Defining the difference in the medical use of radiation as compared to industrial uses, Dr. Evens pointed out that at this time X-ray dosage is very highly regulated by Federal and State agencies.

Frequently consulted on CT utilization, Dr. Evens was recently called upon to support the American College of Radiology’s position which contends that federal guidelines requiring a minimum of 2,500 scans per year should be reduced. Dr. Evens’ CT utilization study was referred to by the College in its recommendation of 2,000 scans per year to realistically reflect CT optimal utilization.

The National Electrical Manufacturer’s Association in its efforts to bring about changes in U.S. guidelines on CT cited data from a study (Evens and Jost) presented by Dr. Evens at the 1978 RSNA. In the study, Dr. Evens noted that to do 50 scans per week, body units must be in operation about 14 hours per day. He also noted that pressure on X-ray CT scanner installations to meet the federal guidelines before approval of an additional scanner conflicts with efforts to follow clinical protocols tailored to specific types of ailments. The clinical protocols tend to limit the number of scans performed whereas pressure to amortize cost of the equipment encourages high utilization.

As a result of the thorough research he has conducted on the economics of CT, Dr. Evens was asked to speak on cost effectiveness at a National Press Conference sponsored by the American College of Radiology in Washington, D.C., October 22.
MALLINCKRODT’S ROLE IN NEW WEST PAVILION

Mallinckrodt Institute of Radiology will share the medical spotlight with Barnes Hospital on the opening of a new era in the hospital’s physical development – the $55 million West Pavilion. A distinct feature of this 17 floor facility will be to isolate and stress medical care on an outpatient basis in order to provide all possible cost savings of time and money to patients as well as to help them avoid the psychological shock of waiting in line with more seriously ill patients. In addition by centralizing services such as pharmaceutical, surgery, and psychiatric facilities, more space will be made available for modern treatment and new sophisticated equipment.

Mallinckrodt Institute of Radiology will own the ninth and tenth floors of the West Pavilion under a condominium arrangement and in accord with the independence of the Institute, the radiology floors and the remaining hospital floors were designed by different architects.

Before construction began six months ago, Dr. Ronald Evens, Mallinckrodt’s Director, and Armand Diaz, Technical Administrator, gave intense scrutiny to the plans for each of the floors, 17,000 square feet each, one to be devoted to inpatient services and the other to outpatient testing.

“Mallinckrodt has been constructing and expanding ever since Dr. Evens became Director of MIR in 1971,” said Diaz. “Working with him is very easy. Dr. Evens’ skill as a radiologist enables him to look at a two dimensional drawing and construct a three dimensional image of what a room is going to look like.”

During the construction period, Armand Diaz has held monthly meetings in the MIR 8th floor conference room with the architect, mechanical and electrical engineers, and sub-contractors to determine job progress and solve any problems that may have arisen at the construction site. “Every time there is a

Armand Diaz, Gary Fossard, McCarthy Brothers Construction Co. project manager, and Dr. Ronald Evens view progress of the 10th floor outpatient area.
Mr. Diaz is assured by Dwight Dickinson, project engineer, and Gary Fossard that the door frames will adequately support all leaded doors.

problem,” said Diaz, who visits the job site once a week, “I go back to the prints with the contractors involved, making any needed changes.”

Bringing service closer to the patient, the ninth floor (expected to be opened in March, 1980), will house three cardio-angiography suites, one additional room for cardiovascular studies, conference and lecture rooms, and permit the expansion of Mallinckrodt's research programs, including one designed to test various cancer therapies.

More than half of the ninth floor will be devoted to the Division of Nuclear Medicine. Providing a smoother flow of patient work, the enlarged and modern clinical area will encompass many improvements over existing facilities such as a highly advanced radiopharmacy with the ability to compound radiopharmaceutical kits on site, a receptionist area with access to the diagnostic computers on the 12th floor of the Institute, a separate room to house the highly sophisticated Varicam computer, conference and reading rooms, and six nuclear imaging rooms.

According to Dr. Evens, the new quarters will provide space for the sophisticated Positron Emission Transverse Tomograph system. Incorporating cyclotron produced radioactive isotopes to measure the rate at which the heart muscle consumes energy, the PETT test speeds the time in which physicians can diagnose a heart attack and determine the extent of damage.

Whereas at the present the outpatient radiological services are spread throughout the hospital, the tenth floor of the West Pavilion will be a distinct outpatient facility offering all routine radiologic examinations in addition to computed tomography and laminography. Scheduled for completion in mid-summer of 1980, this unique facility will ensure that patients continue to receive the high quality of care they expect at Mallinckrodt Institute.

Teaching Award

Dr. Hyman R. Senturia, Associate Clinical Professor Emeritus of Radiology, was selected by the 1979 graduating seniors of Washington University Medical School as the first recipient of the Sydney S. Pearl, M.D. '32 Award for Inspirational Teaching. A staunch alumnus of the School of Medicine, Dr. Pearl is a practicing surgeon in Elizabeth, New Jersey. Dr. Senturia was chosen from among the entire voluntary clinical faculty to receive this honor and as Course-master for a popular radiology elective at Jewish Hospital, Dr. Senturia makes a strong contribution to the quality of teaching in the School of Medicine.
Left, Drs. James E. McDonald, Miriam Jill White, Richard L. Wahl, Mark D. Nicol, David Ling.

1st Year Residents

Dr. David Ling, a native of Cincinnati, received his A.B. degree from Princeton University and his M.D. from Duke University where he was elected to A.O.A. For two years, Dr. Ling served a residency in internal medicine at the University of Michigan Medical Center. His hobby is tennis.

Dr. James E. McDonald, a native of Jackson, Mississippi, graduated with distinction from Mississippi College and earned the M.D. degree, "summa cum laude" from the University of Mississippi, where he was elected to A.O.A. His wife, Donna, is a teacher with a Master of Education degree. Her hobbies are playing the piano and creole cooking and Dr. McDonald enjoys reading and tennis.

Dr. Mark D. Nicol from Paducah, Kentucky, graduated from the University of Kentucky and received a navy scholarship for medical school, he completed his M.D. from the University of Louisville. Dr. Nicol served his internship at the Naval Regional Medical Center in San Diego and is presently a Lieutenant in the U.S. Naval Reserve (Inactive). He enjoys the outdoor sports of snow skiing, hiking, backpacking, and sailing.

Dr. Richard L. Wahl was born in Waverly, Iowa and chose his native state for completing his B.A. degree in chemistry at Wartbury College and his M.D. from Washington University Medical School. A member of A.O.A., Dr. Wahl served his medical internship at the University of California, San Diego. He's a tennis player and antique car buff and his wife, Sandy, is an elementary school teacher.

Dr. Miriam Jill White was born in Hamilton, Ontario, Canada and graduated from Smith College in Northampton, Mass. and the University of Cincinnati Medical College. She served her internship at Hennepin County Medical Center in Minneapolis. Dr. White shares the hobbies of tennis and handball with her husband, Frank Dowd Sullivan, a broker in real estate and development, and her other special interests are singing in choral ensembles, gourmet cooking and restoring furniture.
Postgraduates

Dr. Laurence L. Bauer, a native of St. Louis, completed a B.S. in chemical engineering at the University of Missouri, Rolla, and a M.S. in communicative disorders at the University of Wisconsin. A member of AOA, Dr. Bauer graduated from the Medical College of Wisconsin. His wife, Susan, an artist and photographer, holds a B.S. in education and psychology, and both enjoy camping and canoeing.

Dr. Dale E. Johnston was born in Pittsburgh, Pennsylvania where he received both his B.S. and M.S. in Chemistry from the University of Pittsburgh. He was an A.O.A. at Jefferson Medical College in Philadelphia where he completed his M.D. His wife, Janice, is a nursing instructor at St. Luke's Hospital.

Dr. Katherine Reed, from Cleveland, Ohio, completed her undergraduate and medical education at the University of Florida. A member of Phi Beta Kappa and A.O.A., her hobbies are tennis and photography.

Dr. Floyd E. Scales was born in Eagle Pass, Texas and chose his native state for completing his B.S. degree in electrical engineering at the University of Texas in Austin and his M.D. from the University of Texas Southwestern Medical School at Dallas. A member of AOA, Dr. Scales keeps fit with racquetball and jogging and is interested in tropical fish aquariums.

Dr. Theresa M. Vogel, from Washington, D.C., is a Phi Beta Kappa graduate of the Catholic University of America, Washington, D.C. where she received a B.A. in biochemistry. She holds an M.D. from the University of Pennsylvania and is a member of AOA.
A Visit With The Chiefs

West Africa is thousands of miles from western Massachusetts but these two diverse geographic locations have strongly influenced the medical career of Chief Resident Dr. Richard Baron.

Born in Springfield, Massachusetts, Dr. Baron was a second year student at Yale University and had met his future wife, Miss Shirley Reynolds, a student at Smith College in Northampton, Massachusetts, when his collegiate lifestyle was markedly changed. Receiving a Carnegie Fellowship for a year of work in an undeveloped country, Dr. Baron chose West Africa.

“When I took off for West Africa as a hospital administrator,” said Dr. Baron, “I didn’t know anything about the job or the country.”

Assigned to a Catholic Mission Hospital which was the only one in a large area of the country, Dr. Baron was undaunted by the primitive conditions and oppressive heat, instead he considered the real challenge was to overcome the numerous restrictions imposed by the Ghanaian government in order to keep the hospital in needed supplies. He enthusiastically fulfilled his role as an administrator, taught English to the nurses, set up a new, efficient records system, but it was the action and activity within the hospital’s huge out-patient clinic that made Dr. Baron decide to become a doctor.

“The patients were lined up each morning. They didn’t have just coughs and colds, they were really very ill,” he recalled. During this year of long workdays and meager diet Dr. Baron’s weight went from 180 down to 130 pounds. “Ground nut stew didn’t take the place of milkshakes,” he said.

Concluding his work in Africa Dr. Baron continued to test his physical resources as he hitchhiked 3,000 miles through primitive villages, the African rain forest, into the desert, and up to Timbuctoo. It was indeed a year to remember!

Re-adjusting once more to the collegiate world of Yale University, Dr. Baron married Miss Reynolds during his junior year, completed his B.A. degree, and went on to attend Boston’s Tuft University Medical School as Shirley completed a Master’s Degree in counseling and education at Harvard.

The Barons then came to St. Louis for his third year of medical school where he received his M.D. at Washington University, and Shirley began work on her Ph.D. in clinical psychology. They now have one son, Timothy, age one and a half years.

“One of the reasons I came to Mallinckrodt Institute of Radiology for my residency,” said Dr. Baron, “was a radiology elective which I took during my medical school training. It was exciting and challenging.”

In addition to his primary responsibilities as an intermediary between residents and staff, Dr. Baron would like to organize more social and sports events in an effort to promote a better rapport and understanding among his colleagues. Dr. Baron has set high goals for himself of quality patient care.

“I like to approach each patient with certain tenets in mind. How would I like to be approached? Whether the answer be with a competent manner, a professional appearance, courtesy, and understanding, or all four, I think we should take the time to get to know the feelings of the patient and to deal with each one as a human being.”

Dr. Fred Oakley, co-chief resident, grew up in a small town in Oklahoma in a part of the state which has hills, trees, and abundant rainfall. While attending Oklahoma State University, Dr. Oakley was an exchange student at the University of Stuttgart where he utilized his ability to speak German learned from his German great-grandparents.

Completing his college education at Oklahoma
State with a degree in mathematics and physics, Dr. Oakley worked for two years for World Health, a division of the United Nations. It was in his role as administrative assistant to the Director of Education on the islands of Western Samoa in the southern hemisphere that Dr. Oakley gravitated toward a medical career. His primary responsibility was to teach mathematics, physics, and chemistry in the schools. The students were very bright but Dr. Oakley discovered that one girl was doing poorly because of impaired vision. Arranging to have the U.S. government issue glasses to the girl and to other school children who needed them led Dr. Oakley to setting up routine vaccinations and health care. There were at that time no medical facilities or doctors on the island.

In 1972, Dr. Oakley entered the University of Oklahoma Medical School where his interest in ultrasound and angiography led him to the field of radiology. Dr. Oakley chose the Mallinckrodt Institute because of its very impressive staff, physical facilities and on-going clinical research. He energetically tackled the requirements of the MIR residency program, directing the "Case of the Week" for a year, and now as co-chief, he dispatches his liaison duties between MIR staff and residents with the same enthusiasm. In July, Dr. and Mrs. Oakley hosted a get-acquainted picnic for new residents at their home in Clayton.

Mrs. Oakley holds a master’s degree in public health and nutrition and is the associate director of dietetics at Barnes Hospital. The Oakleys welcomed their first child, Frederick Daniel, on August 9, 1979. Dr. Oakley hopes to enter the private practice of radiology in the Pacific Northwest.

The Director’s "Get Acquainted" Luncheon

Along with the academic schedule, orientation for the new class included a cordial welcome, good food and fellowship, and an opportunity to get acquainted at the Director’s Luncheon in Queeny Tower.
The Director’s Office Reports

Recent Promotions - Department of Radiology

Dr. Marcus Raichle, Professor of Radiation Sciences in Radiology
Dr. Barry A. Siegel, Professor of Radiology
Dr. R. Gilbert Jost, Associate Professor of Radiology
Dr. Robert Koehler, Associate Professor of Radiology
Dr. William A. Murphy, Jr., Associate Professor of Radiology
Dr. James Purdy, Associate Professor of Radiation Physics in Radiology
Dr. Dixie J. Aronberg, Assistant Professor of Radiology
Dr. Jeannette Y. Lee, Assistant Professor of Radiation Oncology in Radiology
Dr. Gordon L. Phillips, Assistant Professor in Radiology (Radiation Oncology)
Dr. Satish C. Prasad, Assistant Professor of Radiation Physics in Radiology
Dr. Rochelle M. Pudlowski, Assistant Professor of Radiology
Dr. Chandrakant C. Tailor, Assistant Professor of Radiology

Change of Status

Dr. Christopher Moran has been appointed as assistant professor of clinical radiology to the staff of MIR. Dr. Moran is in private practice with the Radiological Associates Group in St. Louis.

New Staff

Dr. Judy Destouet (co-chief resident 1978-79) has been appointed to the staff as an instructor in radiology in the section of musculoskeletal radiology.

Dr. Michael Gornish completed his residency in diagnostic radiology at MIR and has remained on the staff as a fellow to obtain specialized training in neuroradiology.

Dr. Fernando R. Gutierrez completed a one-year fellowship in cardiac radiology at MIR and is now an instructor in the cardiac radiology section.

Dr. Robert S. Lenobel is a fellow in the Division of Nuclear Medicine at MIR, after finishing a diagnostic radiology residency at the Institute.

Dr. Kurichety Prasad Rao has joined the staff as an instructor in radiology in the Division of Radiation Oncology, following the completion of his radiation oncology residency at MIR.

Dr. Hsiu-san Lin is currently a trainee in radiation oncology at MIR. Dr. Lin has been an associate professor on the research staff in Cancer Biology at the Institute since July 1971.

Dr. Dennis M. Balfe comes to Mallinckrodt as a fellow in the section of abdominal radiology. Born in Los Angeles, Dr. Balfe graduated from the University of Santa Clara with a B.S. in physics and received his M.D. from the Medical College of Wisconsin.

Dr. Siddhesh Gowda, whose primary appointment is with the Department of Medicine, has been appointed an assistant professor of radiology (in the cardiac catheterization laboratory). A native of India, Dr. Gowda received his educational training at the Medical College of Bellary, Mysore, India.

Dr. Hsiu-san Lin

Dr. Dennis M. Balfe

Dr. Siddhesh Gowda

Dr. Patrick R.M. Thomas
Dr. Patrick R. M. Thomas has joined the Institute's staff as an assistant professor of radiology in the Division of Radiation Oncology. Dr. Thomas received his undergraduate education at Winchester College, England, and earned his M.D. at London University. He received his post doctoral training at the Middlesex, Royal Free, and Hammersmith Hospitals. Dr. Thomas comes to MIR from the Department of Radiation Medicine at Roswell Park Memorial Institute in Buffalo, N.Y., where he held the position of Associate Chief.

Dr. Todd H. Wasserman has joined the staff of the Division of Radiation Oncology as an assistant professor of radiology. After completing his undergraduate and medical education at the University of Rochester, Dr. Wasserman interned at Strong Memorial Hospital in Rochester. He served his residency in radiation therapy at U.C.S.F. Medical Center and at Zellerbach-Saroni Tumor Institute, Mt. Zion Hospital, San Francisco. Dr. Wasserman comes to MIR from the U.C.S.F. Medical Center where he was an assistant research radiation oncologist.

Dr. Seymour Fox, instructor in Radiation Oncology in radiology, is the new Chief of the Oncology Data Section in the Division of Radiation Oncology. A native of Montreal, Quebec, Canada, Dr. Fox received his bachelor's degree from McGill University, his M.S. degree in computer science from the University of Oregon, and his Ph.D. in computer sciences from the University of Oklahoma. He comes to MIR from the Baptist Medical Centers in Birmingham, Alabama, where, as manager of the Digital Systems Department, he was responsible for the clinical computer applications in three hospitals.

Dr. Ronald L. Palmer, a first year resident in the diagnostic radiology program at Jewish Hospital, will spend a year in training at the Mallinckrodt Institute.

Dr. B. Chandra-Sekar, has been appointed as a fellow in neuroradiology. Born in India, Dr. Chandra-Sekar holds an M.D. from Madras University in India and served his residency at Misericordia Hospital, Bronx, New York.

Dr. Ashwani Kapila has been appointed a fellow in neuroradiology. He was born in India and received his medical degree at the All-India Institute of Medical Sciences. Prior to coming to St. Louis, he completed three years of diagnostic radiology training at Englewood and Hackensack Hospitals in New Jersey.

Minoru Maeda, Ph.D., research instructor in radiology in the Division of Radiation Sciences, was born in Japan and holds the B.S., M.S., and Ph.D. degrees from Kyushu University, Japan. Dr. Maeda is married and has a two year old son.

Dr. Sivarajan Pandian is a research assistant in the Division of Radiation Sciences. A native of India, Dr. Pandian holds the B.S., M.S., and Ph.D. degrees in chemistry.
Harold Thayer Delivers Scott Lecture

Harold E. Thayer, Chairman of the Board of Barnes Hospital and Chairman of the Board and Chief Executive of Mallinckrodt, Inc., delivered the eighth annual Wendell G. Scott Lecture on Monday, September 10, in Scarpellino Auditorium at Mallinckrodt Institute of Radiology. His topic was “The Achievement of Excellence in Patient Care.”

Born in Rochester, New York, Mr. Thayer graduated from the Massachusetts Institute of Technology in 1934 with a degree in Chemical Engineering. He joined Mallinckrodt, Inc. in 1939 and has served as Chairman of the Board and Chief Executive Officer since 1965.

Mr. Thayer has long been interested in health care both professionally and in his civic endeavors. The company he heads has been an industry leader in developing medical products and techniques and its founder, Edward Mallinckrodt, along with his son Edward, Jr., donated the funds that made possible the construction of Mallinckrodt Institute of Radiology. The Mallinckrodt family has continued to be a major benefactor to the academic goals of the Institute. Mr. Thayer has been an important part of the Washington University Medical Center since 1967 when he was named a Trustee of the University. He was elected to the Board of Directors of Barnes Hospital in 1973 and recently named as its chairman.

Mr. Thayer is a director of 11 corporations including the First National Bank in St. Louis, General American Life Insurance Co., Laclede Gas Co., and Southwestern Bell Telephone Co. He has been involved in numerous civic activities as an officer of the St. Louis Arts and Education Council, Civil Progress, Inc., St. Louis Regional Commerce and Growth Association, United Way of Greater St. Louis, and the St. Louis Area Council of Boy Scouts from which he has been awarded both the Silver Beaver and Silver Antelope Awards.

Mr. Thayer was the St. Louis Globe-Democrat Man of the Year in 1972, a recipient of the Regional Commerce and Growth Association's “Right Arm of St. Louis” Award, and the University of Missouri's Honor Award for Distinguished Service in Engineering.

The Wendell G. Scott Memorial 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.

Previous lecturers have been Dr. Michel M. Ter-Pogossian, the Institute's Director of the Division of Radiation Sciences, Harvey Picker, Dean, Faculty of International Affairs, Columbia University and Co-Founder of the James Picker Foundation, Dr. John M. Dennis, Dean, University of Maryland School of Medicine and Past-President of the American College of Radiology, former Governor Christopher S. Bond of Missouri, Godfrey Hounsfield, F.R.S., Inventor of the EMI brain and body computed tomography scanners, Frank J. Rauscher, Jr., Senior Vice-President for research, American Cancer Society, and Dr. Donald S. Frederickson, Director of the National Institutes of Health, Education, and Welfare.
Achieving excellence in patient care depends on professional and technical greatness, financial strength, and excellent person-to-person relationships, said Mr. Thayer. He cited as examples of technical greatness in radiology, Dr. Evarts Graham's role in the development of a method to visualize the gallbladder by X-ray; Dr. Michel Ter-Pogossian's leadership in short-lived isotope development; and the international role of Mallinckrodt Institute in the development of computed tomography.

Mr. Thayer pointed out that financial strength comes from two sources: gifts of funds and good financial management. Mallinckrodt Institute was made possible through funds provided by Edward Mallinckrodt, his son, Edward, Jr., Mrs. Elizabeth Mallinckrodt, and present members of the Mallinckrodt family. Robert A. Barnes and Mr. Edward Queeny were two outstanding donors to Barnes Hospital who brought business acumen to the hospital's financial management.

A third fundamental of excellent patient care, person-to-person relationships, involves the medical care given the patient and the patient's perception of the care received. Emphasizing the need for putting the patient first, Mr. Thayer added that if we were patients we would like to be treated with courtesy, concern, attentiveness, efficiency, and thoughtfulness and encouragement. For example, a patient in radiology evaluates the care received by the length of wait for an X-ray or whether the radiologist or technologist explained parts of the procedure to the patient.

The fact that a sick person needs more than technically skilled care to get well is borne out by patient reception of the return to primary nursing care. This means that each person has his own nurse rather than being treated by a team of nurses, each doing part of the personal contact care. This system hindered close personal relationships between the patient and the nurse, making the patient feel he was just another case — not an individual.

"Our task is to combine the personal caring of old-fashioned medicine with the technological achievements of modern medicine to give the patient true excellence in care," said Mr. Thayer. "Wendell Scott was a great diplomat in his dealings with others and had the ability to give his undivided attention to the project or person at hand, no matter how busy he was. His patients defined this as caring."

Pointing out that a patient entering a hospital needs to feel that the strangers he meets are friends who care, Thayer urged employees to avoid thoughtless behavior such as talking about the patient as a case rather than a person, discussing a patient's ills in a crowded elevator, or groups of employees making unnecessary loud noises, depriving patients of rest.

Naming future objectives, Mr. Thayer stated that in addition to primary nursing care, Barnes Hospital is in the process of personalizing drug therapy. By implementing the unit dose system, each patient's medication is packaged specifically for him in the pharmacy and delivered to the floor in dose-sized containers to be dispensed to the patient by his nurse. Another improvement will be the opening of a large, comfortable discharge lobby in the West Pavilion to accommodate patients and families who are leaving the hospital. Future plans of the hospital include extending the computer capabilities to permit direct communication between the patient floors for both laboratory and X-ray reports for prompt delivery of test results to those responsible for the direct care of the patient.

"Providing good personal service without high-quality professional care would reduce us to a second-class medical center," said Mr. Thayer. "Providing both at the same time is the challenge we face."

Mr. James S. McDonnell greets Mr. Thayer following the lecture.
A POOLSIDE RECEPTION IN QUEENY TOWER FOLLOWED THE WENDELL G. SCOTT LECTURE
Elected President of SCARD

Dr. Ronald G. Evens was elected President of the Society of Chairmen in Academic Radiology Departments (SCARD) at the organization’s annual meeting in Rochester, New York. The Society represents the 134 University radiology departments in the United States and Canada and its purpose is to improve the teaching and research capabilities in the specialty of radiology.

Dr. Evens has served as Director of Mallinckrodt Institute of Radiology and as Head of the Department of Radiology at Washington University since 1971.

Foreign Lectures

Dr. Barry A. Siegel was an invited participant at the 35th Brazilian Congress of Cardiology in Brasilia, July 8-10. He presented three lectures: “Myocardial Infarct Scintigraphy with TC-99m Pyrophosphate”; “Diagnosis of Deep Vein Thrombosis and Pulmonary Embolism” and “Recent Advances in Nuclear Cardiology.”

Dr. Marcus Raichle was a guest speaker at the 2nd International meeting on Cerebral Vasospasm in Amsterdam, July 11-14.

Dr. Robert Stanley, accompanied by Mrs. Stanley, visited Australia during the first two weeks of July. He was Visiting Professor at the Flinders University in Adelaide, South Australia, as a guest of Professor Geoff Benness. After stops in Alice Springs, Ayers Rock, and Cairns, the Stanleys visited Sydney where Dr. Stanley spoke on “CT of the Adrenal Gland” at Royal Prince Alfred Hospital in Sydney.

Dr. Robert E. Koehler was a member of the faculty of a course on CT, Ultrasound, and Nuclear Medicine sponsored by the American College of Medical Imaging for general radiologists at the Mauna Kea Beach Hotel on the big island of Hawaii, July 28-August 4.

Dr. Carlos A. Perez presented a series of lectures on Cancer Management at the XII Interamerican Congress of Radiology in Quito, Ecuador July 29-August 4.

As an invited speaker for the International Society for Neurochemistry meeting in Jerusalem, Sept. 1-5, Dr. Marcus Raichle spoke on “The Use of Emission Tomography and the Study of Brain Metabolism” at a symposium on Newer Methods in Neurochemistry.

Dr. Robert Stanley served on the faculty of postgraduate courses sponsored by Duke University in Bermuda, Oct. 22-26 and by the University of California in San Diego Oct. 29-Nov. 1.
CT USED IN NEUROSURGICAL THERAPY

A fifty-five year old lightly sedated man undergoes biopsy of an intracranial lesion at Mallinckrodt Institute of Radiology. Utilizing computed tomography for guidance, a needle is placed into the deep lesion, material aspirated from the lesion to partially decompress it, and tissue obtained for pathologic examination. The preprocedure diagnosis of the lesion is glioblastoma, possibly cystic. The aspiration biopsy proves the lesion to be a solid glioblastoma multiforme. The entire procedure takes one hour and the patient, who is awake during the procedure, suffers no change of neurological function.

Neuroradiologists Christopher J. Moran and Thomas P. Naidich from Mallinckrodt Institute, and Washington University neurosurgeons have demonstrated that CT-guided aspiration biopsy provides a safe, accurate method of obtaining tissue for diagnosis without resorting to formal craniotomy. Through their use of CT directed puncture in a number of patients, the team of physicians has effectually reduced cystic masses (thereby achieving palliation in patients with cystic neoplasms) and drained and irrigated (with antibiotics) intracranial abscesses. Some patients have experienced marked relief of symptoms and others are unchanged from undergoing the CT guided procedures.

Increasing experience demonstrated the need for a simple sturdy device to immobilize the patient’s head and stabilize the aspiration needle. Dr. Moran and Jean Barbier, (design engineer at Mallinckrodt Institute), designed such a device which is comfortable for the patient and does not interfere with the monitoring scans required during the aspiration procedure. Relatively inexpensive, this prototype consists of a padded metal frame to position the patient’s head and a plexiglass needle-holder. Its utility is being confirmed through on-going applications of the technique at Mallinckrodt by an integrated team of radiologists and neurosurgeons. Future expectations of this technique are that in selected patients, diagnosis and even therapy may be affected safely without craniotomy.

Coronary Angioplasty
To Be Available At MIR

Dr. Philip A. Ludbrooke recently participated in a Conference on Percutaneous Transluminal Coronary Angioplasty (PTCA) in Zurich, Switzerland, headed by Dr. Andreas Gruntzig who pioneered the development of PCTA. An associate professor of internal medicine and radiology, Dr. Ludbrook has recently been appointed to a National Heart, Lung, and Blood Institute Steering Committee initiated to develop guidelines for the introduction and performance of the procedure in the USA, and to establish a National PTCA Registry.

In a recent interview on the KMOX program, “To Your Health”, Dr. Ludbrook stated that coronary angioplasty, which is performed under fluoroscopy in the Cardiac Catheterization Laboratory, and entails dilation of obstructed coronary arteries using a specially designed catheter equipped with an inflatable balloon is complimentary to coronary bypass surgery, not a substitute for it. It is expected that PTCA, which may alleviate or at least postpone the need for coronary bypass surgery in 5-15% of patients currently managed surgically, will be clinically available in the Institute later this year.

Symposiums

Dr. Barry A. Siegel was a member of the faculty for the eleventh annual seminar in Clinical Nuclear Medicine offered by Colby College, August 13-19 in Waterville, Maine. His lectures and panel discussions emphasized newer procedures of importance in clinical practice including CT and ultrasound.

Dr. Mokhtar Gado presented two lectures to radiologists, neurosurgeons, and neurologists during a symposium in computed tomography organized by the University of Maryland, Oct. 10-12 in Baltimore.

Dr. Robert Stanley was a member of the faculty and presented a paper on “CT of the Undescended Testicle” at the annual meeting of the Society of Uroradiology Sept. 15-20, Hilton Head Island, South Carolina.

Dr. Bruce McClennan presented a paper on “Comparison of CT and Angiography in the Evaluation of Renal Cell Carcinoma”, course on “CT Retropitoneum”, and a workshop on “CT of the Urinary Tract” at the Society of Uroradiology meeting in Hilton Head, S.C., Sept. 14-18.
Off Staff

Dr. Roger J. Adams has begun a residency in oral surgery at Mayo Clinic in Rochester, Minn.

Dr. William A. Berkman completed a three-year diagnostic radiology residency at MIR and is now on the staff of the radiology department at Michael Reese Hospital in Chicago.

Dr. Robert Choplin has joined the academic staff of Bowman Gray Medical School as a pulmonary radiologist in Winston-Salem, North Carolina, following a three-year diagnostic radiology residency at MIR.

Dr. Harmon Davis, II, formerly an instructor in the Division of Nuclear Medicine, is with the Internal Medicine Group, P.C. in Cheyenne, Wyoming.

Dr. Jeffrey Ellis (chief resident 1978-79) completed a four-year diagnostic radiology residency at MIR and has entered a hospital-based radiology practice at Resurrection Hospital in Chicago, doing primarily ultrasound, CT scanning, and nuclear medicine.

Dr. Kenneth Elson, Jr. completed three years of diagnostic radiology residency training, and has joined the staff of the radiology department at the Nebraska Methodist Hospital in Omaha.

Dr. Thomas E. Herman is a fellow in pediatric radiology at the Children's Hospital Medical Center in Boston after completing a four-year residency in diagnostic radiology at MIR.

Dr. Walter Holloman, Jr. completed a two-year fellowship in neuroradiology at MIR and is in private practice with the Northwest Radiologists, Inc., in St. Louis.

Dr. Nolan Karstaedt is an assistant professor of radiology at Bowman Gray School of Medicine in Winston-Salem, North Carolina. Prior to his move to Winston-Salem, he spent one year as a fellow in diagnostic radiology at MIR and one year on the staff as an instructor in the abdominal radiology section.

Dr. Milton S. Klein has entered the private practice of cardiology at Methodist Hospital and is affiliated with Baylor College of Medicine in Houston, Texas.

Dr. Jong Il Lee, after completing a four-year residency at MIR which included one year of training in nuclear medicine, is a member of the radiology staff at Gottlieb Memorial Hospital in Melrose, Illinois where he is doing general radiology and nuclear medicine.

Dr. William Miller, Jr., after completing a three-year residency in diagnostic radiology at MIR, entered private practice at Harrisburg Hospital in Harrisburg, Pennsylvania (affiliated with the Pennsylvania State University).

Dr. Bharti R. Patel has joined the staff of the Nuclear Medicine department at Firmin Desloge Hospital, St. Louis University in St. Louis.

Dr. Barry Paull has joined a group radiology practice in Santa Ana, California after completing a residency in both diagnostic radiology and nuclear medicine at MIR.

Dr. Cary Presant, former assistant professor of radiology in the Division of Radiation Oncology, is now Director of the Department of Medical Oncology at the City of Hope National Medical Center in Duarte, California.

Dr. Fabio J. Rodriguez returned to his home in the Dominican Republic following a two-year neuroradiology fellowship at MIR. He will direct the organization of a radiology department at the new medical school in Santiago, including the radiology residency program and school of x-ray technology.

Dr. Naris Rujanavach joined the radiology staff at St. Luke’s Hospital in St. Louis after completing a residency in radiology at MIR and one year as a fellow in neuroradiology.

Dr. James J. Santoro is continuing his residency training in Radiation Oncology at Tufts Medical Center, Medford, Mass.

Physics Presentations

The following presentations were made by members of the MIR physics staff at the 21st Annual Meeting held in Atlanta, July 30-Aug. 3 of the American Association of Physicists in Medicine.

1. Using Liquid Dielectrics to Obtain Thermal Distributions, Walter J. Kopecky, Ph.D.
2. Microwave Leakage During Patient Treatment, Walter J. Kopecky, Ph.D.
3. An Extremely Thin Walled Parallel Plate Ionization Chamber for Use in Photon/Electron Beam Dosimetry, James A. Purdy, Ph.D. and David J. Keys, M.A.
4. Exposure Rate Constant for a Filtered$^{192}$Ir Source, Glenn P. Glasgow, Ph.D.
5. Radiation Protection Consideration Around Patients Receiving Therapeutic Quantities of $^{131}$I, Glenn P. Glasgow, Ph.D.
6. Electron-beam Irregular Field Dose Computations Using the Concept of Scatter-Phantom Ratio (SPR), Myung C. Choi, M.S.
7. Practical Dosimetric Considerations of an 18 MV X-ray Beam, James A. Purdy, Ph.D.
8. A Quality Assurance Program for Radiation Therapy Treatment Units, James A. Purdy, Ph.D.
10. Calculation of Partial Tolerance for Treatments with Changing Field Size, Time, Dose and Fractionation, Satish C. Prasad, Ph.D.

Scanner Added to Ultrasound Lab

A Toshiba linear-array real-time scanner has recently been added to the ultrasound laboratory. The scanner provides a rapid survey of regions of interest, quickly identifying the optimal axis of organs or masses for standard B scan studies and often showing clinically unsuspected lesions. This approach increases examination efficiency and improves patient throughput. In most instances, the images are equal in diagnostic quality to those obtained by standard B mode scanners. The unit also makes possible portable bedside studies, facilitates the examination of pediatric patients and others unable to cooperate for examination, and permits the rapid localization and guidance for needle-puncture procedures.
COMPUTERS BOOST PRODUCTIVITY AT MIR

This large mechanized retriever file, which holds two years of reports, will be replaced by the computer generated microfiche.

A computer based reporting system has been developed at the Mallinckrodt Institute, to produce all of the radiology reports in the department, approximately 175,000 patient reports per year.

In order to prepare a report, the radiologist dictates his findings in the traditional manner, using standard transcription equipment. The transcriptionist then prepares the report at a computer terminal, with the aid of several specially designed text editing features. When the report is complete, it is printed on a local printer, and at the same time, it is made available for electronic distribution throughout the department.

Jerome Campbell, R.T., R.D.M.S., wheels mobile scanner to patient’s bedside.

The system supports the use of standard, pre-dictated “canned” reports for commonly used dictations, reducing the amount of typing required in many cases. Each radiologist can prepare a different set of “standard normal” reports, and these are identified by a pre-arranged code.

Reports are stored in the computer for approximately eight weeks, and are immediately retrievable during this period for examination or for correction. Printed copies of recent reports can be obtained by physicians in the film library and reports are available for insurance verification at the inquiry station in the billing area.

The report file is purged on a monthly basis and from the purged file, a computer generated microfiche is produced which provides a record on microfilm of each report. Computer-produced indexes to locate specific reports are also stored on microfilm. Using this technique, it is possible to store 5 years of reports (nearly a million pages) in an area the size of a shoe box. Paper copies of a report can be reproduced at any time from the microfiche obviating the need for long term storage of paper copies. Extra copies of the microfiche can be produced for a moderate cost and kept in the film library, the billing area, and other key locations.

The development of the reporting system has been supervised by Jack Trachtman, and Barbara Smith has developed the microfiche applications. Both are members of the Diagnostic Computer Section. The system has improved productivity and distribution of radiology reports at Mallinckrodt yet requires minimum storage and is relatively inexpensive.

The microfiche provides a microfilm record of over 200 reports.
A Picker TherX-1 therapy simulator is the newest addition to the Division of Radiation Oncology's treatment planning capabilities. Megavoltage radiation beams used in radiation therapy (especially from linear accelerators) have sharp edges and high depth doses in order to minimize the dose to normal tissues and optimize the dose to the tumor. The use of such beams increases the need for more accurate localization of the tumor and adjacent normal tissue as well as greater accuracy in the beam direction. A therapy simulator provides this precision treatment planning. The unit is basically an X-ray machine operating in the diagnostic X-ray energy range which has the mechanical capability to allow the radiation beam to be oriented with respect to the patient in an identical manner as the therapy beam affording direct X-ray fluoroscopic visualization and roentgenographic imaging of the proposed treatment area.

The Picker simulator is capable of rotating the X-ray tube around a point in space (called the isocenter) to within a millimeter for source-axis distances ranging from 60 to 100 centimeters. Digital readouts of the treatment parameters are provided. Physics staff members Peter Parrino, M.S., and James A. Purdy, Ph.D., directed the installation of the machine and the room renovation.
Dr. Moses Swick Visits MIR

Modern day intravenous urography, angiography and contrast-material-assisted computed tomography directly depend on the development of water-soluble radiopaque contrast material made possible by Dr. Moses Swick. Dr. Swick, in 1928, developed compounds from certain iodinated organic acids which were readily excreted by the kidney and found suitable for intravenous urography. On leave from Mount Sinai Hospital in New York City, Dr. Swick performed this work in Germany while studying as a Libman Fellow.

On July 18, 1979, Dr. Swick visited the Mallinckrodt Institute of Radiology to observe clinical applications of contrast material use and to meet the various staff members involved with the use of radiopaque material. Presently, Dr. Swick is a Consultant and Professor Emeritus of the Department of Urology at Mount Sinai Hospital in New York City. Radiologists owe a debt of gratitude to Dr. Swick for his basic research and development in the field of contrast material synthesis which has served as the basis for the development of the agents now in use.

25 Years of Service

Dr. Mark D. Eagleton, Jr., Associate Professor of Clinical Radiology, was one of eight doctors who were honored in ceremonies on July 24 for having served 25 years or more on the active staff of Barnes Hospital. In recognition of his service Dr. Eagleton was presented a 25-year gold pin by Barnes Chairman, Harold E. Thayer, left. His name has been inscribed on a 25-year plaque which hangs in the Barnes corridor and honors those who have centered their professional lives around the institution. Dr. Ronald Evens attended the ceremonies honoring Dr. Eagleton.
E. C. E. Debate

Armand Diaz, R.T., FASRT, participated in a debate over the issue of Mandatory vs. Voluntary Existing Continuing Education (E.C.E.) for Radiologic Technologists at a meeting held in conjunction with the 1979 ASRT and AURT annual meetings in Houston.

Taking the side of mandatory continuing education against opponent Lavern Gurley, R.T., Ph.D., FASRT, Diaz sparked the debate with his findings based upon 30 years of experience in medicine and private industry.

Among his strong arguments for mandatory E.C.E., he maintained that it guarantees to the general public a universal level of competence among technologists who regularly upgrade themselves through continuing education, thereby increasing safety and quality of service to patients. Citing a statistic that less than one out of ten active registered technologists participates in voluntary E.C.E., Diaz forsees that mandatory programs can benefit a far greater number with institutional funding, alleviating total or partial financial responsibility to individuals who cannot financially afford to absorb the total amount.

Supervisory Appointments

The following supervisory appointments have been made in the radiologic technology staff of Mallinckrodt Institute:

- Janet Morgan, R.T.
- Joe DiCroce, R.T., B.S.R.T.
- Jerome Campbell, R.T., R.D.M.S.
- Joe Stojeba, R.T.

The comprehensive debate by Diaz and Gurley, two of the most active U.S. technologists involved in the move to upgrade the status of R.T.s, clarified the major issues involved in the E.C.E. movement. It also reflected their professional sensitivity to the general concern and opposition among the ASRT membership to the threat of increasing governmental regulation inherent in mandatory E.C.E.

Diaz Lecture

Danial Donahue, R.T., FASRT, President of the American Society of Radiologic Technology, will deliver the seventh annual Diaz Professional Education Lecture at Mallinckrodt Institute on Friday, Nov. 23, in Scarpellino Auditorium.

Awards

Robert A. Feldhaus, R.T., and Norman Hente, R.T., were awarded second place for their technology exhibit, "The Creation of a New Procedure — TMJ Arthrography" at the 51st ASRT annual meeting in Houston July 6-12.

Newly appointed clinical instructors are: Rita Graf, A.A.R.T., Emilee Murray, R.T., B.B.A., and Mike Ward, R.T.
It was one of the largest birthday celebrations to date — over 50,000 fans — cheering, clapping, chanting!! Suddenly a birthday greeting flashed across the scoreboard at Busch Memorial Stadium.

RON EVENS — 39 YEARS AND HOLDING
What a way to celebrate the Eve of your 40th birthday! Particularly when you are one of the most faithful Big Red fans around town.

Who was responsible for this great surprise during the Cardinal/Washington Redskins game on September 23rd? None other than an equally loyal Cardinal fan — Mrs. Ronald Evens! But Hanna was only to "hear" about the whole thing. As all of this drama and excitement was unfolding at Busch Stadium, she was at home preparing for the second part of her surprise — a birthday party after the game attended by close friends! Who says "Life does Not begin at 40?"

P.S. Early on the morning of September 24, 1979, our roving reporter spotted a jogger in Kirkwood wearing a white T-shirt with big red lettering — "40 and still running."
Technology

Congratulation, Graduates
Class of '79 Graduates 25 Radiologic Technologists


Nuclear Medicine

Left, Larry Cullen, C.N.M.T., Susan Richardson C.N.M.T., James Glisch, C.N.M.T., Maria Svoboda, C.N.M.T., Robert Grbac, C.N.M.T.

Radiation Oncology

Welcome, New Students

Eighteen Students Enrolled in MIR Radiologic Technology


Nuclear Medicine

Left, Joel Culver, Mt. Pleasant, TX, Wally Fuhrman, Louisiana, MO, Rick Devlin, St. Louis, MO, Karen Scholl, Kearney, NE, and Maryann Manfredini, Des Plains, IL.

Radiation Oncology

Back row, left, Donna Linze, Janet Maurath, David Burke, Lydia Remstedt, Patricia Bellinger. Front, Judy Steele and Helen Schutte.
The Discipline of Learning

Jackie Rudolph started back to Evening College nine years ago. In August of 1979 she received a Bachelor of Science degree in business administration from Washington University. This degree represented attending classes three nights a week, giving up many social activities, getting up at 3 o’clock in the morning to study for exams, and maintaining a 2.35 average. In addition to the required business courses, she has 18 hours of arts and sciences and almost enough credits to have a minor in Sociology.

What Jackie found was that academic work provided practical knowledge she could use in her job as supervisor of medical transcriptionists at Mallinckrodt Institute. “The learning keeps me thinking and reading and keeps me from getting on too narrow a path, unable to see alternatives,” she said.

As the years went on, it took more discipline. She was mid-way through college and had received a certificate in business when Jackie began to wonder whether or not to continue. Greatly supportive to her at this time were her job supervisor and family members such as two brothers with Ph.D. degrees and her twin sister who is the administrative assistant in the Washington University Health Care Program. “I had to keep reminding myself, ‘I’ve gone this far, it just takes a little longer,’” said Jackie.

Considering it important to “recharge” one’s energies she left her summers free for travel. Jackie has now made five trips to Europe, taken a Caribbean cruise, visited every state in the United States, and Mexico, Canada, Nova Scotia, and the Bahamas.

Offering her perspective on the role of women in business, Jackie said, “I feel it almost a necessity for a woman to have a college degree. Most businesses today are looking for women that can go into administration. There is a need for the female executive.” Her advice to those considering more schooling is to start slowly, beginning with only one or two hour courses and adding more as time allows and study habits improve. She expressed the same sensible attitude toward the question of age. “One can go back to college at any age. What counts is desire and motivation. The young as well as older people can stop growing and not know it, becoming discontented. In today’s world technology is progressing so that one needs more education to understand what’s happening — even what we’re reading in the newspaper,” said Jackie. “Think twice about an education. What was all right years ago is not all right today.”

CITY-WIDE RADIOLOGY CONFERENCE

Scarpellino Auditorium, Mallinckrodt Institute of Radiology, 5:30 p.m.

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<tr>
<th>Date/Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>11/12/79</td>
<td>Skeletal Lesion with a Fibrous Matrix</td>
<td>Harold G. Jacobson, M.D.</td>
<td>Musculoskeletal Section, Mallinckrodt Institute</td>
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<tr>
<td>12/10/79</td>
<td>Hepatobiliary Imaging with 99mTc-HIDA</td>
<td>Leonard M. Freeman, M.D.</td>
<td>Nuclear Medicine Division, Mallinckrodt Institute</td>
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<td>1/14/80</td>
<td>To be determined</td>
<td>St. Louis University Staff</td>
<td>St. Louis University</td>
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<td>2/11/80</td>
<td>Pediatric Radiology</td>
<td>Walter E. Bardon, M.D.</td>
<td>Pediatric Radiology Section, Mallinckrodt Institute</td>
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<td>3/10/80</td>
<td>CT of the Thorax - Updated</td>
<td>Stuart S. Sagel, M.D.</td>
<td>Abdominal Section, Mallinckrodt Institute</td>
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<td>April 1980</td>
<td>Leroy Sante Lecture</td>
<td>Henry I. Goldberg, M.D.</td>
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<td>5/12/80</td>
<td>Parenchymal Liver Disease – Evaluation with Computed Tomography</td>
<td>R. Gilbert Jost, M.D.</td>
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A Wilderness Encounter

In August the Ron Evens and Lee Melson families, joined by the Jack Collins family of St. Louis and the Fred Vines family of Richmond, Va. (Dr. Vines was a neuroradiology fellow at MIR in 1969-70) enjoyed a 6-day raft trip on the Colorado River, through Utah’s Canyonlands National Park.

Entering the River near Potash, the group floated for three days on a relatively quiet stretch of the river, enjoying magnificent scenery, glimpses of great horned sheep, and hikes to ancient Indian ruins or interesting geological formations. There were frequent dips in the river and waterfights, with everyone taking their turn at rowing the rafts.

On the fourth day, the confluence of the Green and Colorado River was passed. Beyond that point lay two days through Cataract Canyon, where the air was filled with the roar of many of the Colorado’s most challenging rapids.

Companionship around the campfire, star-gazing, clean, high mountain air, and delicious cooking characterized the entire trip. Looking back on the 95-mile run as the group was met with a motorized launch for the final leg of the journey through upper Lake Powell — it was a great family vacation and a genuine wilderness experience!
Postgraduate Course In Monaco

A postgraduate education course will be conducted in Monte Carlo, Monaco under the direction of Drs. Louis A. Gilula and William A. Murphy. This course, sponsored by the Musculoskeletal Section of the Mallinckrodt Institute of Radiology, is presented in conjunction with the Office of Continuing Medical Education, Washington University School of Medicine.

The purpose of this symposium is to review current diagnostic and treatment concepts of selected musculoskeletal problems. Major topics include benign and malignant tumors, hand and wrist trauma, a survey of non-malignant aggressive bone diseases, and recent developments in the diagnosis and treatment of back disease. The course is designed to help bridge the knowledge of radiologists and orthopedic surgeons through illustration of normal and abnormal anatomy. Participating speakers will be Drs. Lee Ford (Washington Univ.), Louis Gilula (MIR), William McAlister (MIR), William Murphy (MIR), John Murray (M.D. Anderson, Houston), Alex Norman (Hospital for Special Surgery, New York), Donald Resnick (V.A. Hospital, San Diego), Jacques Theron (Centre Hospitalier Universitaire, Caen France), Paul Weeks (Washington Univ.) Washington University certifies this meeting for 24 hours of Category I credit toward the Physicians Recognition Award of the AMA.

The course will be held at the Loews Monte-Carlo, the largest hotel complex on the French Riviera, offering a fabulous array of restaurants, a casino, night spots and boutiques. The estimated cost, $1,049.00 per person, includes round-trip special Apex air fare from and return New York. Registration fee is $250. For further information, contact:

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