

Fall 1973

Focal Spot, Fall 1973

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FOCAL SPOT

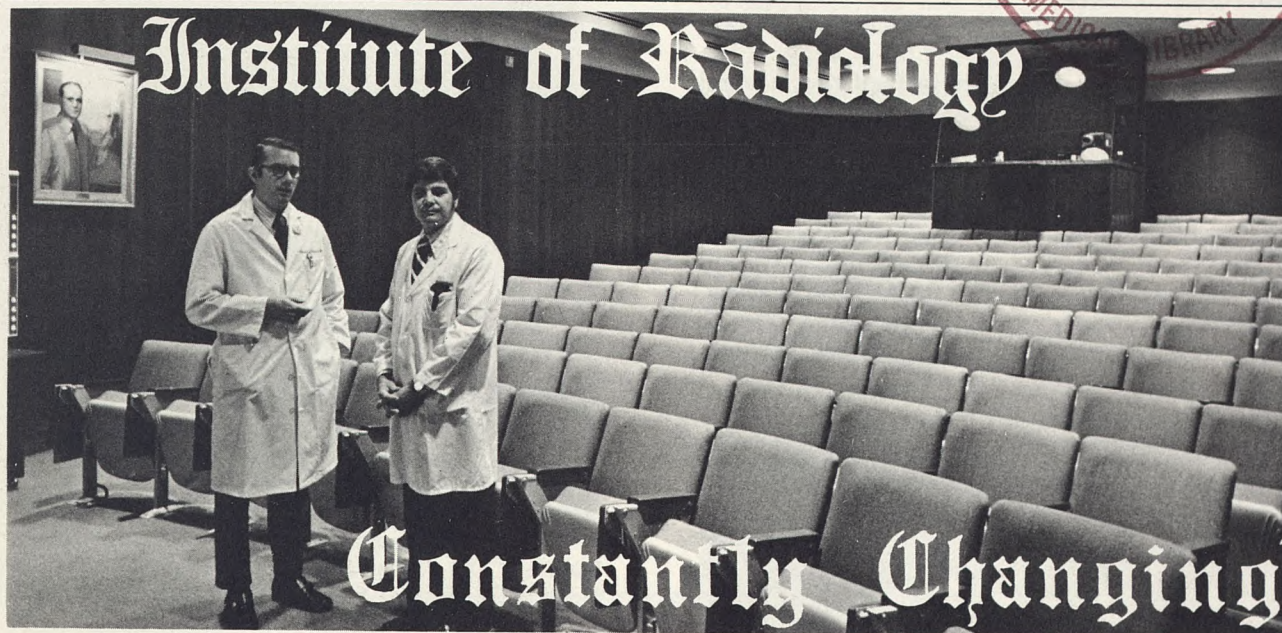


A NEWSLETTER OF MALLINCKRODT INSTITUTE OF RADIOLOGY

VOLUME III

FALL 1973

NUMBER 7



Dr. Ronald G. Evens, Director of MIR and Armand Diaz,
Technical Administrator, in Scarpellino Auditorium.

In the last issue of **FOCAL SPOT**, I discussed the need for an Institute of Radiology to be constantly changing its diagnostic and therapeutic techniques and procedures. Another important facet of change is our development and use of physical space.

The Mallinckrodt Institute is in the center of the Washington University Medical Center. It is in an ideal location and relates well to patient floors and transportation; being essentially surrounded by St. Louis Children's Hospital, Barnes Hospital, and University Buildings. This also makes space very scarce and we must use every inch of our building to the maximum.

In 1971, an expansion of the Mallinckrodt Institute was completed under the leadership of Dr. Juan Taveras. This expansion included an addition of four floors to the Institute and the extension to the West of floors ground through four. Included in this building program was the completion of the Scarpellino Auditorium, expansion of clinical and office space for Nuclear Medicine and Radiation Oncology, and the expansion of research facilities for Radiation Oncology, Diagnostic Radiology, and Radiation Physics.

The Institute is currently planning the development of shell space on the second, third, fourth and

Constantly Changing

twelfth floors. Nearly every area of the Institute needs more space, however the following activities have critical needs:

- 1) Office and teaching facilities for Diagnostic Radiology.
- 2) Renovation of the Cardiac Catheterization Laboratories.
- 3) Significant expansion of capabilities for chest, bone and joint, and skull radiology.
- 4) Development of new facilities for cerebral tomography (EMI Scanner)
- 5) Expansion of our computer capabilities for clinical and research use.
- 6) Improving the capabilities of gastrointestinal and genitourinary radiology.

During the development of these facilities, several important factors must be considered. These facilities must be coordinated with building programs at Children's Hospital, Barnes Hospital, and the University so that patients may be easily transported for radiological examinations. This space will also be the working environment for our employees and staff and they must be attractive as well as functional. Finally, we must continually look ahead so that the Institute's space needs will be satisfied ten and twenty years in the future.



Aerial view, Washington University Medical Center

Change must be constructive rather than destructive. Our change in space must be organized so that the result is efficient and useful radiological, academic facilities.

Dr. Ronald G. Evens, Director of MIR

WENDELL G. SCOTT MEMORIAL LECTURE

Mr. Harvey Picker, Dean of the Faculty of International Affairs at Columbia University and Co-Founder of the James Picker Foundation was the guest lecturer for the Second Annual Wendell G. Scott Memorial Lecture on Monday, September 10, 1973.

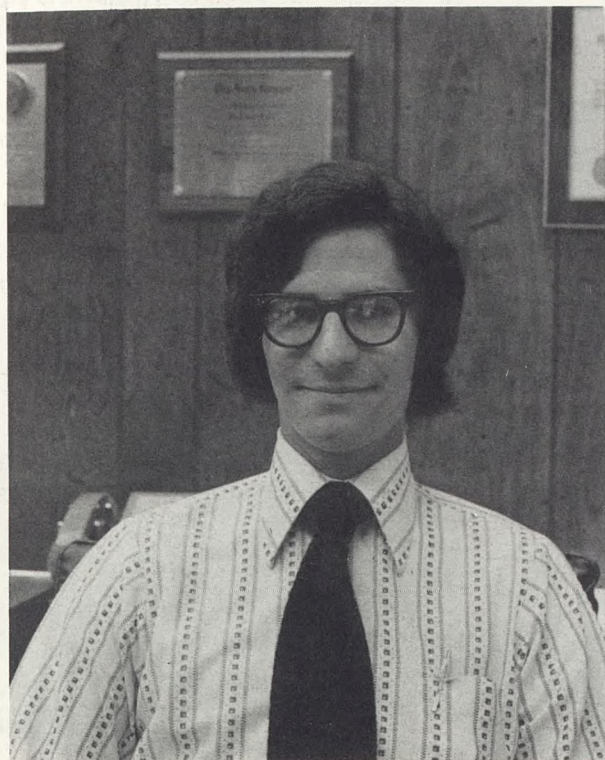


Pictured in Scarpellino Auditorium, prior to Mr. Picker's lecture, "The Social Dilemma," are from left to right: Dr. Ronald G. Evens, Mr. Harvey Picker, and Mrs. Wendell G. Scott.



Left to right, Dr. Michel H. Ter-Pogossian, Dr. William H. Danforth, and Mr. James S. McDonnell.

Alumnus Appointed Director of Nuclear Medicine Division



Barry A. Siegel, M.D.

Appointment of a new assistant professor and Head of the Division of Nuclear Medicine of MIR has been announced by Dr. Ronald G. Evens, Director.

Barry A. Siegel, M.D. '69, Assistant in Radiology and Fellow in Nuclear Medicine, Washington University School of Medicine assumed the position in July, 1973.

Dr. Siegel, who is 28, received his A.B. degree in 1966 and the M.D. degree in 1969 from Washington University. He did his internship and residency at Barnes Hospital and Mallinckrodt.

A member of Phi Beta Kappa, scholastic fraternity, and Alpha Omega Alpha, medical honorary society, he was awarded the Medical School Prize of this organization in 1969. In the same year, he also received the Hugh M. Wilson Award in Radiology.

Dr. Siegel serves as a consultant to the Food and Drug Administration, Bureau of Drugs, and is a Consulting Editor of the Journal of Nuclear Medicine Technology. He is also active in the American College of Radiology, the American College of Physicians, and the Society of Nuclear Medicine.

His numerous publications, papers, and printed works already constitute an outstanding contribution to medical research.

Dr. Siegel and his wife, Pamela, reside in Creve Coeur at 10313 Corbell. Their son, Peter Alan Siegel, was born January 20, 1972.

DON BERNIER ASSUMES POSITION OF TECHNICAL SUPERVISOR OF MIR NUCLEAR MEDICINE DIVISION



Don Bernier, R.T.

Don Bernier, R.T., who was previously employed as Chief Technologist of the Nuclear Medicine Service at the Veterans Administration Hospital in Omaha, Nebraska, assumed his technical supervisory position in Nuclear Medicine at MIR on July 1, 1973. At one time in his military career, he was in charge of X-Ray at Scott Air Force Base and for a number of years he supervised the Air

Force's Training Program in Nuclear Medicine. Don and his wife Lorraine, an R.N., live with their five children in Ballwin, Missouri. Don's favorite pastime is following the BIG RED (Cornhuskers of Nebraska, that is).

RETURNING TO MIR

Dr. Wiley Johnson, Fellow, Nuclear Medicine.

WHY, DADDY?

DR. TOM STAPLE was leaving for the hospital to attend conferences one Saturday morning when his six year old daughter asked him: "Why do you have to go to conferences, Daddy? Do they have Watergate at Barnes Hospital, too?"

QUEENY TOWER X-RAY



In Viewing Room, Dr. Emily Smith, Head of Queeny Tower Radiology, dictates X-ray reports and Dr. Heber MacMahon studies a barium enema examination.

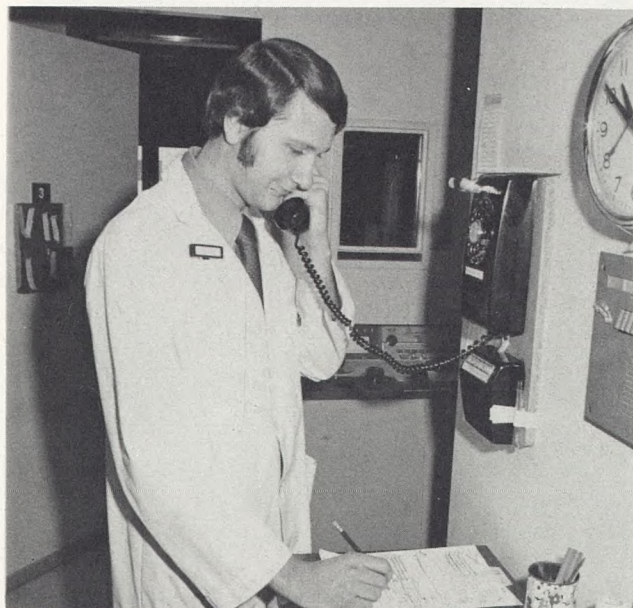
The aim of the Queeny Tower radiology suite is to provide prompt, pleasant service both to outpatients who visit either the Medical Care Group or the various specialists in Queeny Tower and to inpatients in the Tower's acute and self care divisions. The examinations performed are as varied as the specialists served — orthopedic surgeons, neurosurgeons, hematologists, endocrinologists, otolaryngologists, gastroenterologists, neurologists, cardiologists, general surgeons and internists — and encompass almost all phases of diagnostic radiology.

In 1972, almost 29,000 diagnostic examinations — approximately 100 per day — were performed. Of these, 65% were outpatient examinations, which clearly indicates the Tower's major emphasis. Plain films, most commonly examinations of the chest,

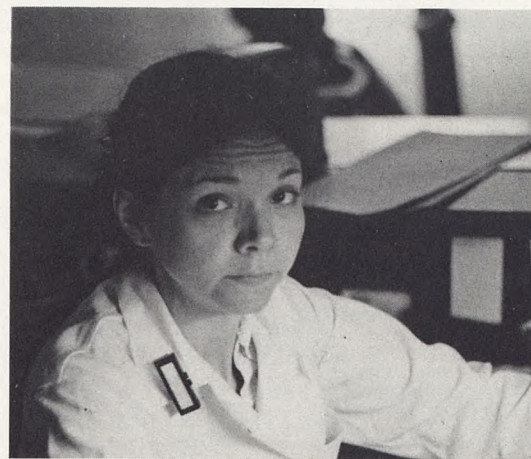


Dr. Smith gives patient, Don Bresler, barium during esophageal cardiac fluoroscopy.

bones and joints, skull and sinuses, comprise the vast majority of cases. Upper gastrointestinal studies and barium enemas, 3900 of them, were performed last year.



Robert Ronecker, R.T., Technical Supervisor, calls for Queeny Tower in-patients to be sent for barium studies.

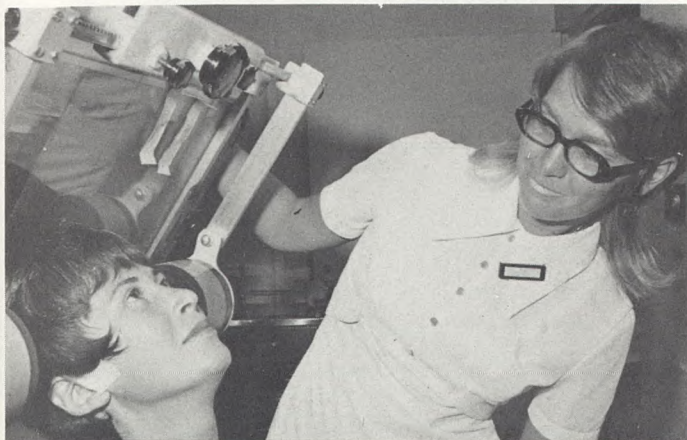


Ruth Blann, R.T., Assistant Technical Supervisor, checks patient flow.

Fluoroscopy of the heart and lungs is also a common procedure. The Tower at present does not have the facilities for other fairly routine studies such as intravenous urograms, cine barium swallows and laminography. More specialized procedures are be-

Total Body Specialization

yond the scope — and purpose — of the unit. Until recently, laryngography, positive contrast study of the pharynx, larynx and trachea, was performed in the Queeny Tower facilities by the radiation therapists. The performance of this study has now been assumed by the chest roentgenologists on the Second Floor, MIR.



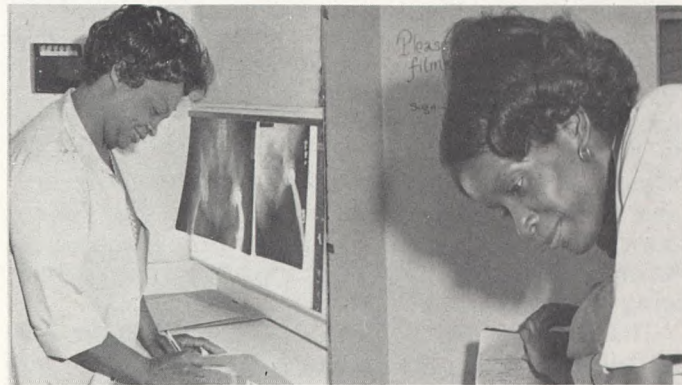
Linda King, R.T., performs skull series on patient, Judy H. Costar.

Dr. Emily Smith has been the staff radiologist in charge of Queeny Tower since the completion of her residency at Mallinckrodt Institute of Radiology in July, 1972. She is assisted by second and third year radiology residents who are assigned singly to the Tower for a period of four weeks.



Receptionists, Carla Vogel, floater, and Sue Clover, greet patients on arrival in waiting room and process requisitions for their examinations.

The resident not only has the opportunity to examine a wide variety of radiologic problems and to refine fluoroscopic techniques but also to observe some of the problems and pleasures he may encounter in private practice. Learning to deal effectively with both patients and referring physicians is an important aspect of training.



Film Librarians — Leona Turley, Jeraline Leveringston

The technical staff consists of Robert Ronecker, R.T., supervisor, Ruth Blann, R.T., assistant supervisor, Linda King, R.T., and Kerry Shipley, staff technologist. They are assisted by receptionists Sue Clover, Carol Fry, and Carla Vogel, floater, Leona Turley and Jeraline Leveringston, film librarians, Mary Frances Hickey, medical typist, and Anne Tillman, dark room technician.



Mary Francis Hickey, medical transcriptionist.
Anne Tillman, darkroom technician.

The suite consists of three general radiographic rooms, two of which are used for fluoroscopy.

In the near future, two of the old units will be replaced by new three-phase equipment, which should significantly increase service to both patients and physicians.

LINEAR ACCELERATOR AUGMENTS MIR'S NATIONAL REPUTATION FOR EXCELLENCE

On Friday, September 14, 1973, a near-million dollar linear accelerator facility in the Division of Radiation Oncology was dedicated at the Mallinckrodt Institute of Radiology.

Funded by the Fred Maytag Family Foundation, the 35 million electron volt (35 MeV) linear accelerator is one of the largest and most sophisticated radiological cancer treatment facilities and offers these advantages over presently operating radiological equipment: 1. A larger portion of the body can be treated with a single exposure; 2. A higher dose rate is possible than now available with cobalt or betatron; 3. X-rays produced by the accelerator are sharply refined, making treatment safer, and production of a greater depth dosage is allowed with less exposure to superficial structures; 4. Treatment time is shorter; 5. Patient can be treated from any direction without being moved.

The new equipment also will be used to produce short-lived radioactive isotopes for diagnosis and treatment of metabolic disorders and malignant diseases.

Associated with the 35 MeV accelerator is a \$140,000 computer designed and engineered by Washington University's Biomedical Computer Laboratory and used for treatment planning and a \$100,000 simulator used to simulate actual treatment.

Utilizing present equipment and the new linear accelerator, more than 150 patients a day will receive radiation treatments in Mallinckrodt.

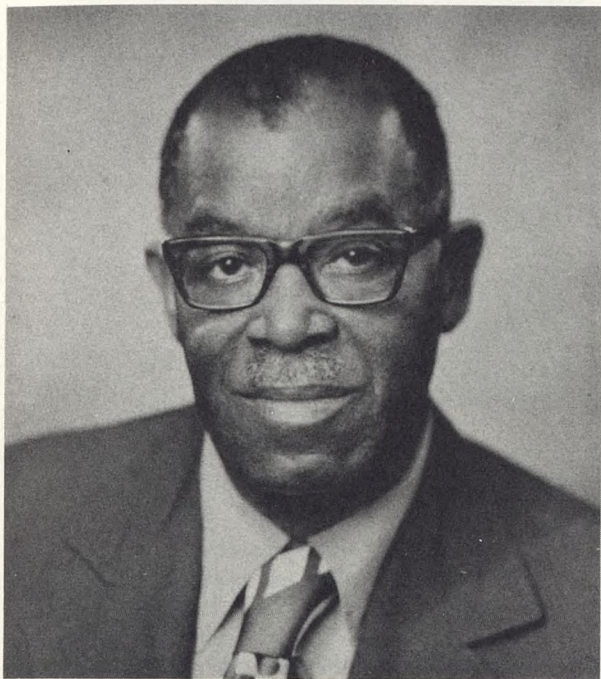
Among the speakers at the dedication ceremonies in Scarpellino Auditorium were The Honorable Thomas F. Eagleton, Senator from Missouri; Dr. Gilbert Fletcher, M.D., Anderson Hospital and Tumor Institute; and Dr. J. Palmer Saunders, Associate Director, Division of Cancer Research Resources and Centers, National Cancer Institute.

Dr. William E. Powers, Director of the Division of Radiation Oncology, introduced the program which also included Mrs. Peter Madsen's presentation of the accelerator facility and acceptance by Dr. William H. Danforth, Chancellor of Washington University, and Dr. Ronald G. Evens, Director of MIR; remarks by Dr. Samuel B. Guze, Vice Chancellor for Medical Affairs, Washington University School of Medicine, and the invocation by Rev. Robert L. Davis, Chaplain of Barnes Hospital.

A reception and tour of the Division of Radiation Oncology immediately followed the ceremony.



DR. WILLIAM E. ALLEN HONORED FOR FORTY-THREE YEARS SERVICE



An outstanding radiologist of national repute, William E. Allen, M.D., was honored with a banquet and testimonial dinner on July 18, 1973, at the Bel Air East. Dr. Allen retired after 43 years of service at Homer G. Phillips Hospital and tributes came from a variety of sources including staff members of the hospital, Dr. Ronald Evens, Director of MIR, representatives of the American Cancer Society, the American Lung Association, patient and student groups, and other professional organizations.

Dr. Allen's numerous awards and distinctions include Former Consultant in Radiology to the Secretary of War; outstanding service awards from the American Cancer Society; Distinguished Service Award, National Medical Association; Howard University Distinguished Alumni Award; and American Men of Science.

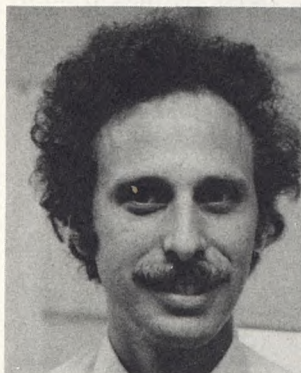
Among his appointments were Assistant Clinical Professor, Washington University School of Medicine, Associate Clinical Professor, St. Louis University School of Medicine, University of Missouri, Consultant in Roentgenology and Radiology and Directorships of the Radiology Departments of Homer G. Phillips, Peoples Hospital, and St. Mary's Infirmary.

We at Mallinckrodt send our best wishes to Dr. Allen!

APPOINTED ASSISTANT CHIEF

Dr. G. Leland Melson has been appointed Assistant Chief of Abdominal Radiology.

WE ARE PLEASED TO WELCOME



Dr. Arthur Schneider



Dr. Francis Kayria



Dr. Kil Soo Lee

Dr. Arthur Schneider, 2nd year resident from Jewish Hospital rotating through MIR.

Dr. Francis Kayria, 3rd year resident in Radiology from Homer G. Phillips, spending 6 months as an observer at MIR.

Dr. Kil Soo Lee, Fellow, Neuroradiology.

"BEST WISHES IN ORDER TO"

Sharen Piraino of the MIR Credit Department who was married to Barry Shapiro on September 2, 1973.

CONTINUING ON MIR STAFF

Continuing on the MIR staff as Instructors in Radiology are former residents, Dr. Gerald Palgato and Dr. Marshall Coburn and Dr. Marcus Raichle, former fellow in Radiation Physics, has been appointed Assistant Professor of Radiation Physics in Radiology (also Neurology).

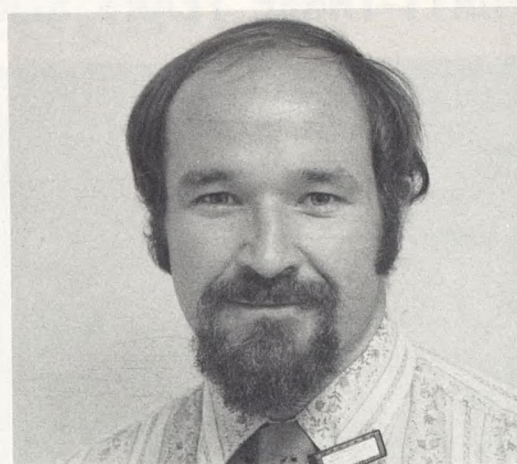
MALLINCKRODT

WELCOMES



Dr. Daniel Robert Biello, who hails from Cleveland, Ohio, received his A.B. from Ohio Wesleyan University and his M.D. from Case Western Reserve University. He is a member of Alpha Omega Alpha.

Dr. Biello's wife, Liz, was formerly a teacher of high school English and the Biellos and their 9 months old son, David Daniel, reside in Rock Hill, Missouri.



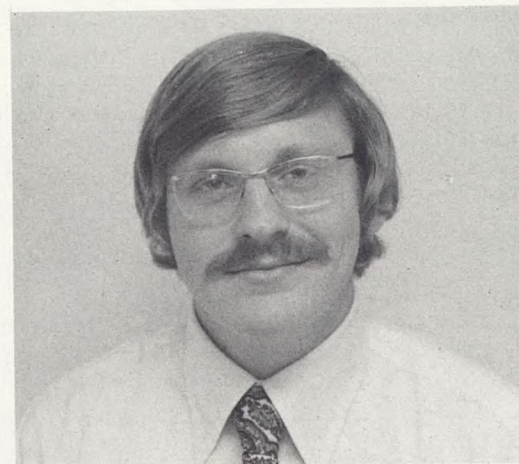
Dr. Richard Philip Chepey, a native from Cleveland, Ohio, attended John Carroll University and St. Louis University Medical School.

Dr. Chepey's wife, Nancy Jeanne, is an accomplished pianist and his hobbies include tennis, photography, and motorcross. The Chepeys reside in Kirkwood.



Dr. James P. Blakely was born in Seattle, Washington. The son of a U.S. Air Force career officer, Dr. Blakely's home included such foreign locales as Colombia, the Philippines, France, and Germany before enrolling at Notre Dame for his undergraduate work and completing medical school at Indiana University.

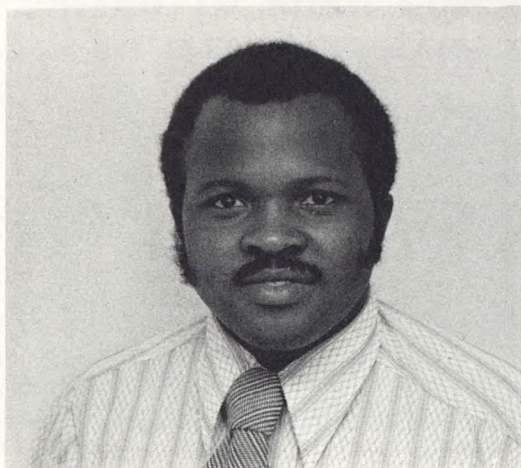
A bachelor, Dr. Blakely's favorite hobbies are photography, swimming, and snow skiing.



Dr. Gene Layton Davis, Jr. comes from Charleston, West Virginia, and his educational background includes a B.A. and M.D. from the University of Virginia and a Medical Internship at Barnes Hospital. A member of Phi Beta Kappa and Alpha Omega Alpha, Dr. Davis enjoys tennis, La cross, bicycling, and handball.

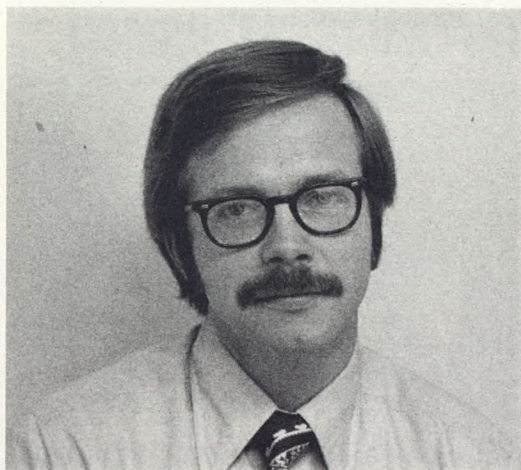
His wife, Gretchen, is a mathematics teacher at Berkeley High School and her hobbies are bridge and tennis. Dr. and Mrs. Davis reside in Creve Coeur, Missouri.

NEW FIRST YEAR RESIDENTS



Dr. Bob Davis from Wrightsville, Georgia, graduated from Drew University in Madison, New Jersey and received his medical degree from McHarry Medical College. He did his internship and residency at Freedmens Hospital, Howard University, Washington, D.C.

Dr. Davis' hobbies include tennis, tinkering with autos, and reading philosophy and his wife, Sylvia, enjoys sewing and dancing. Dr. and Mrs. Davis have a son, Jahmald Kahli, age 18 months.



Dr. Thomas R. Fuller, Jr., a native of Johnson City, Tennessee, received his A.B. from Duke University and his M.D. from Vanderbilt University.

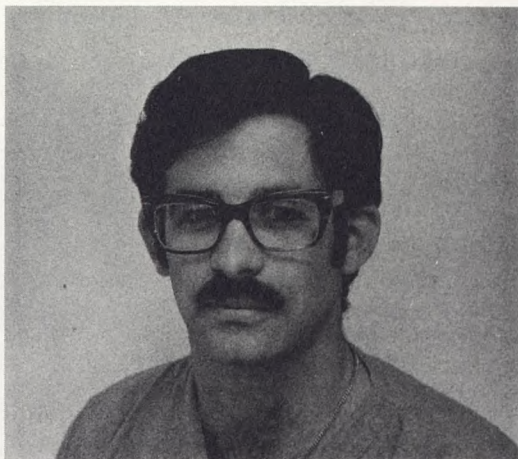
Dr. Fuller's family consists of his wife, Ann, a registered nurse, and Scott, their 2 year old son.



Dr. Lance Lembeck comes from San Diego, California, where he attended San Diego State University. A graduate of Washington University School of Medicine, Dr. Lembeck served his internship at the University of California and his residency at Washington University Medical Center.

Dr. Lembeck's record in sports is impressive, with championship status in California heavyweight boxing, West Coast water skiing, NCAA swimming and AAA volleyball as well as Varsity football and basketball at San Diego State College.

His wife, Sharon, is a teacher and also enjoys waterskiing and surfing. Dr. and Mrs. Lembeck have one child, Laura.



Dr. Robert Levitt, a native of Los Angeles, received his B.A. from the University of California at Berkeley and his M.D. from the University of California School of Medicine in San Francisco.

A member of Phi Beta Kappa and Alpha Omega Alpha, Dr. Levitt is a bachelor whose hobbies include tennis and sailing.

SCOPE OF DIVISION OF RADIATION PHYSICS EXPANDED TO DIVISION OF RADIATION SCIENCES

Since its inception under the leadership of Dr. Michel Ter-Pogossian, the Division of Radiation Physics has expanded far beyond the scope of its original concept. This year the multidisciplinary character of the Division has been officially recognized by changing its name to the Division of Radiation Sciences.

The research projects carried out in Radiation Physics center upon the application of ionizing radiations to the study of biomedical problems. With the advent of more complex techniques and increased expertise in experimentation, computer processing of the data became a necessity. The Division now has three computers and has added a full time programmer to its staff. In addition, a cooperative arrangement with the Biomedical Computer Laboratory of Washington University has provided mathematicians and programmers to assist in data analysis.

A major aspect of the work carried out consists of physiological investigations by means of animal experimentation which are later translated into clinical studies. In recent years certain procedures developed to measure cerebral blood flow and volume have led

to experiments carried out in conjunction with the Division of Neuroradiology at Mallinckrodt, and also to the joint appointments to Radiation Sciences of two physicians from the Departments of Neurology and Neurosurgery.

Another facet of the ongoing activities in Radiation Sciences is the work and publications of a group of radiation chemists and although radiation physics is, and will remain, an important part of the activities of the Division, it can be seen that a variety of other scientific disciplines are improperly covered by the former name. As all research and experimentation carried out involve the use of ionizing radiations, the name Radiation Sciences would appear to be a proper title.

There is a growing realization in organized Radiology that the radiation sciences constitute an important and valuable subgroup of the larger discipline. In our Division of Radiation Sciences, new and significant developments in research have resulted from this cooperation of individuals from many disciplines working toward a common goal. It is hoped that this spirit of cooperation is suitably reflected by the new name.

NEW APPOINTMENTS IN RADIATION ONCOLOGY



Dr. Anthony Morrissey

Dr. Abdel S. Ragab

Anthony Morrissey, Ph.D., Research Associate in Radiology, Section of Cancer Biology.

Dr. Abdel S. Ragab, Assistant Professor of Pediatrics in Radiology.



"Doc, can't you get the photo lab to retouch that x-ray? I don't have time to be sick right now."

Contributed by Helen Pares, Illustrator and AV Associate in Radiation Oncology.

MALLINCKRODT IS PEOPLE

APPOINTED TO AHRA COMMITTEE



Mr. Robert L. Wagner served as a member of the forming committee of AHRA, American Hospital Radiology Administrators, Inc., which is a newly established organization consisting of administrative people in charge of radiology departments in hospital settings with a minimum of 400 beds. One of the main purposes of this association is to improve the administration of the business and non-medical management aspects of hospital radiology departments.

COMPUTER SCIENTIST



Mr. Rex Hill, "Computer Scientist of Applications in Diagnostic Radiology", has been occupied with setting up a program for the billing and accounts receivable system on the Main Campus 360-65 computer. His projects concern the development and design of computer-based programs for diagnostic radiology information systems including patient scheduling, film retrieval, and diagnostic reporting.

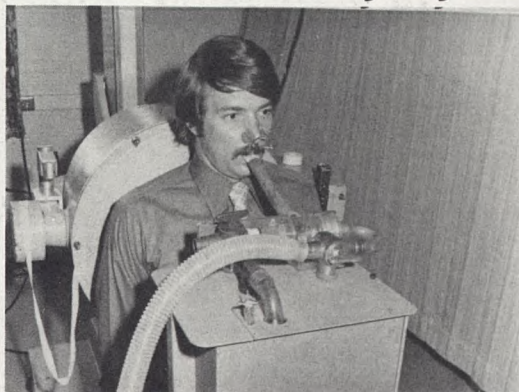
PERSONNEL ASSISTANT



Mrs. Connie di Cristina assumed the position of Personnel Assistant on July 1, 1973. Questions related to payroll, employee benefits, parking, and personnel guidelines should be referred to her at phone extension 851. Connie will be responsible for the personnel activities formerly handled by Lori Morgan, who transferred to the Department of Surgery as Dr. Ballinger's secretary.

Connie is a graduate of the University of California at Davis, California, with an A.B. in English. Her husband, George di Cristina, is a dental student at Washington University and their favorite hobby is snow skiing.

New Xenon Delivery System



The Division of Nuclear Medicine has recently introduced routine xenon imaging of pulmonary ventilation on all patients undergoing lung scanning. This has been made possible by a new, compact xenon delivery system designed by Jean Barbier and demonstrated by Stuart Boyer in the photograph above.



MIR G

DR. & MRS. RONALD EVENS HOST SWIMMING P
NEW MIR STAFF AND R

GAMUT

WING PARTY AND BARBEQUE HONORING
AND RESIDENTS

PROPERTY OF WASHINGTON UNIVERSITY



WHAT'S
UP,
DOC?



TRIPLE FIRST

It is with pride that we note the following new arrivals of MIR staff members:

Ian Carl Moats, son of Mr. and Mrs. Carl Moats (Dr. Carol Archer), born October 9, 1972.

Timothy Joseph Bricker, born to Dr. and Mrs. Robert Bricker (Dr. Mary Poncel) on February 4, 1973.

Emily Virginia Brigham, daughter of Mr. and Mrs. Arthur Brigham (Dr. Fransiska Lee), born on July 20, 1973.

The mother of each baby is a present staff member – a triple first for MIR!

HONORED

Congratulations to Dr. Emily L. Smith who has been named by her chapter of the American Business Women's Association as "Woman of the Year".

Selection was based on business accomplishments and community interest, and to be chosen is a gesture of respect for Dr. Smith as well as for her field of endeavor.

PROMOTIONS ANNOUNCED

Dr. Tom W. Staple has been promoted to Professor of Radiology, effective July 1.

Newly appointed Assistant Professors of Radiology are Drs. Robert C. McKnight, G. Leland Melson, Gary Shackelford, and Enrique Cubillo.

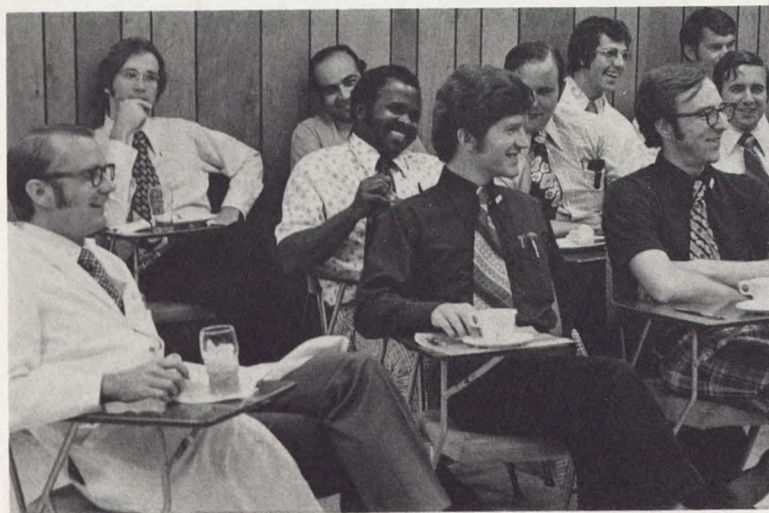
RECENT PUBLICATIONS

"Osseous Metastases from *Cerebellar Medulloblastoma*", by Drs. James Debnam and Tom W. Staple, Radiology, May, 1973.

"Jaccoud's Arthropathy Reviewed", by Drs. W. A. Murphy and Tom W. Staple, *American Journal of Roentgenology*, June, 1973.

Dr. Mokhtar Gado delivered a paper on "Cerebral Circulation" based on research carried out in the MIR 9th floor laboratories, to the *American Society of Neuroradiology* at the April meeting in Boston.

WELCOME LUNCHEON FOR NEW STAFF MEMBERS



Pictured left to right are Drs. Evens, Blakely, Mikhael, Davis, MacMahon, Johnson, Welch, Anderson, Alderson, and Hauser.



DR. BOB BRAMSON ELECTED PRESIDENT OF AACRR



Dr. Bob Bramson of MIR was given the honor of being elected president of the American Association of Academic Chief Residents in Radiology at the May 6-9 meeting held in Vancouver, B.C.. The annual meeting was held in association with the Society for Chiefs of Academic Radiology Departments (SCARD).

The purposes of AACRR are to establish closer relationships with SCARD and other organizations in the field of radiology, and to give the people in residency training programs a voice in the organization of various boards and committees. The speaker at the May meeting was Dr. Ralph Scott, Lexington, Kentucky, President of the American Board of Radiology.

Dr. Bramson, MIR Co-Chief Resident for 1973-74, is a native of Kansas City, Kansas. After graduation from Washington University Medical School, he served his internship at the University of Rochester. He spent three years in the Navy in Japan and then came to MIR for a 3 year residency program.

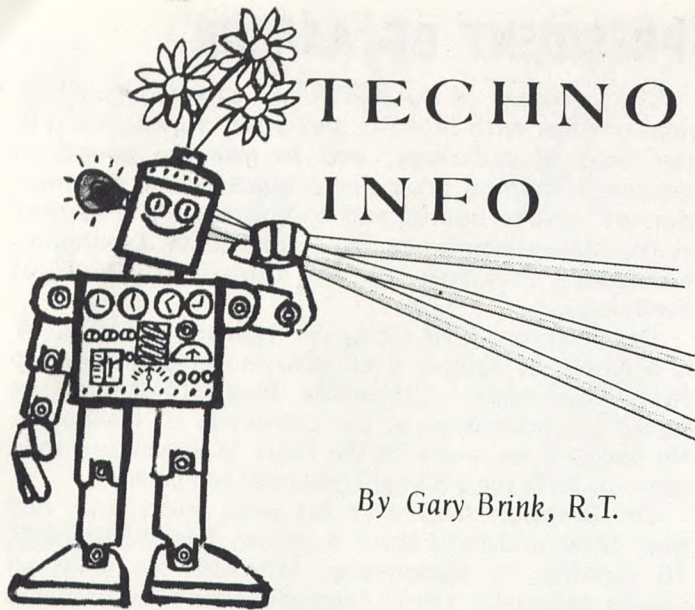
Dr. Bramson lives with his wife, Ruth Ann, and their three children, Matt, 4, Brian, 3, and Elizabeth, 15 months, in Manchester, Missouri. He loves all sports, especially tennis, and won the championship trophy for the American Roentgen Ray Society tennis tournament in October, 1972.

Congratulations to Dr. Bob Bramson, the first MIR Chief Resident to be elected president of the AACRR!

RADIOLOGY RESIDENTS, TRAINEES AND FELLOWS 1972 - 1973



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



By Gary Brink, R.T.

The School of X-ray Technology announced a change in its starting date this year from the traditional month of September to the more practical month of July. By beginning two months earlier the students will gain the advantage of being permitted to take the National Registry Test just prior to their graduation date. This will eliminate the usual three-month interim period following graduation during which the graduate is no longer a student, but not yet a Registered Radiologic Technologist.

Joseph Stojeba, Judy Cortner, Norman Hente, Robert Feldhaus, and Gary Brink recently attended the annual meeting of the American Society of Radiologic Technologists held in Chicago, Illinois. Both Mr. Stojeba and Miss Cortner attended the meeting as official representatives of the local X-ray Society — Mr. Stojeba as retiring President of the Society and Miss Cortner as the recipient of the "Mallinckrodt X-ray Division Fellowship for Continuing Education".

RADIATION THERAPY STUDENTS

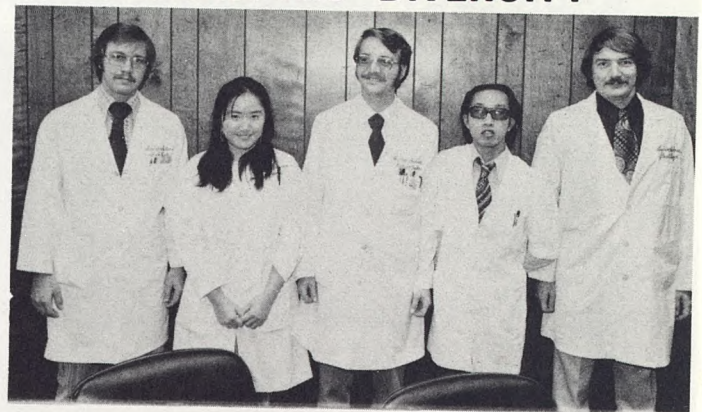
Three students completed their one-year course in Radiation Therapy Technology on August 31, 1973. They are Mr. Steven Schaffner, who has joined the technology staff of MIR's Division of Radiation Oncology, Mrs. Christine Phelps, who is returning to the Division of Radiation Therapy at Homer G. Phillips Hospital, and Ms. Maureen Webb, who will seek a radiation therapy position in one of the major New York hospitals. Our best wishes to them in their future endeavors.

AWARD WINNERS



Diane Harris, center, was the recipient of the Mallinckrodt Award as the most outstanding student in the August '73 Graduating Class. Terry Karch, left, and Kerry Shipley received the 4th District 1st prize awards for their film exhibit presentation.

NUCLEAR MEDICINE TECHNOLOGY STUDENTS REPRESENT GEOGRAPHIC DIVERSITY



Students enrolled in Nuclear Medicine Technology post-graduate course are, left to right, Mark West, Bland, Missouri; Jean Chang, Taipei, Taiwan; Richard Paulson, Missoula, Montana; Forn Han Wong, Province Wellesley, Malaysia; and Stuart Boyer, Duluth, Minnesota.

At the continuing education seminar held in Kansas City this month Gary Brink presented a lecture on "Understanding the Principles of Image Intensification". Also, Armand Diaz and Gary Brink presented a six-hour graduate course on neurological special procedures at the Illinois Convention of Radiologic Technologists held in Peoria, Illinois, September 20-22.

ARMAND DIAZ LECTURESHIP ESTABLISHED

At the April meeting of the 4th District, Missouri Society of Radiologic Technologists, Armand Diaz was presented with a personalized plaque commemorating the establishment of the "Diaz Professional Education Lectureship". The Society announced that its intention to annually procure for the Lectureship—Speaker guest of national stature to address the members of the District Society on issues pertinent and timely to its members.

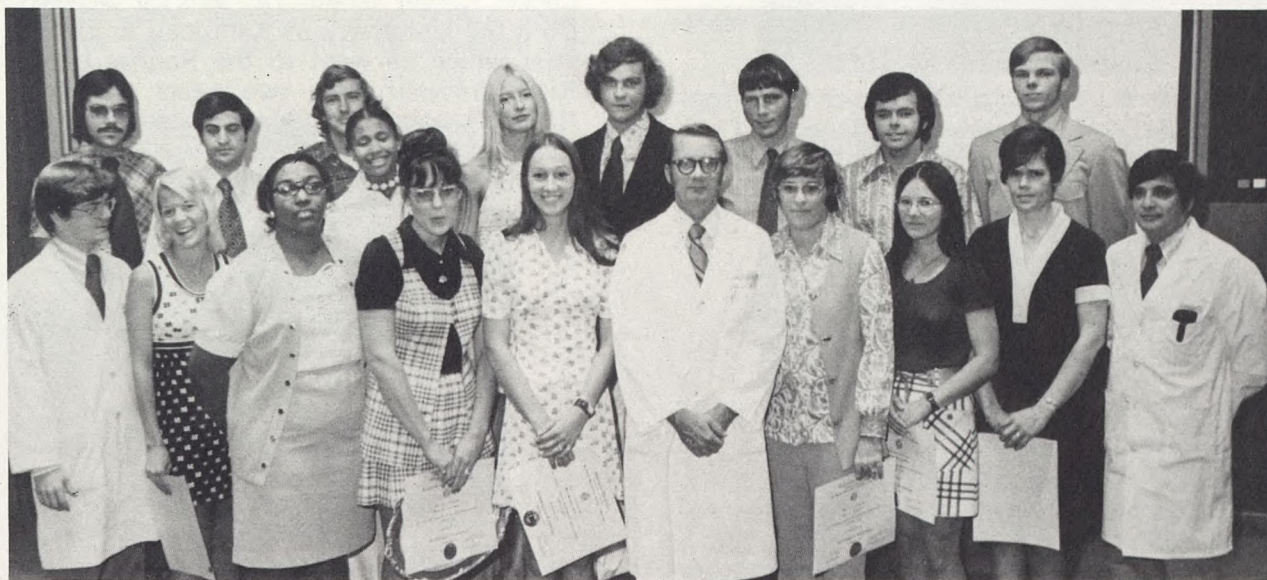


Four MIR X-ray students were among the five who presented the scientific program on "Contrast Media" at the 4th District's April Meeting. Those who participated were, left to right, Cheryl Collins, Mary Jane Schultz, Dennis Long, Nancy Hirstein, and Diane Harris.

SIXTEEN GRADUATE FROM SCHOOL OF RADIOLOGIC TECHNOLOGY

Graduation exercises were held in Scarpellino Auditorium on August 31, 1973 for 16 graduates of the MIR School of Radiologic Technology. Dr. Ronald Evens, Armand Diaz and Gary Brink parti-

cipated in the ceremony which, for the graduating students, marked the completion of 24 months of clinical training and didactic instruction in X-ray Technology.



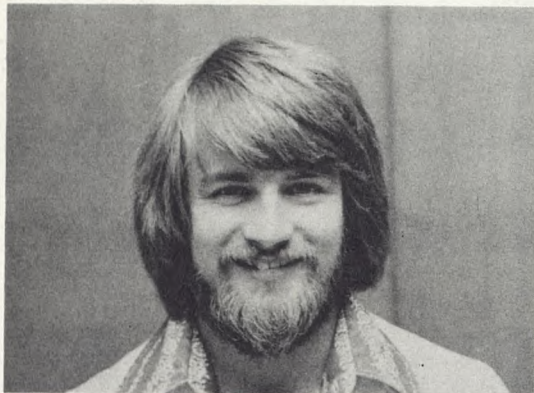
First row, left to right, Gary Brink, Chief Technologist, Nancy Hirstein, Eunice McNeese, Diane Harris, Mary Govero, Dr. Ronald G. Evens, Director, Rita Calcaterra, Lorraine Skala, Julie Lynch, Armand Diaz, Technical Administrator. Second row, left to right, Kerry Shipley, Anthony Raia, Terry Karch, Hope Brooks, Sheryl Collins, Richard Callaway, Robert Welty, Charles Kehnast, Donald Trumpet.

NEW PHYSICS PERSONNEL

The new faces that we are seeing around the research and clinical areas of Radiation Oncology are new people who have been brought into the Physics Section headed by Dr. George D. Oliver, Jr.



Dr. George D. Oliver, Jr., Head of the Physics Section of Radiation Oncology.



Ronald Stiteler is a physicist who comes to us from the Allegheny General Hospital where he worked as a Research Associate for two years. Ron has a B.S. in Biology from Pennsylvania State University.



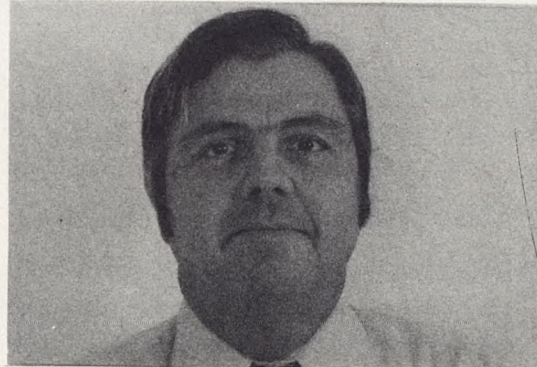
Conrad Granda, electronics technician, comes to us from Vought Aeronautics Company in Dallas.



Dr. James A. Purdy, Instructor in Radiology, Physics Section of Radiation Oncology.



Donald Velkley, Ph.D., arrived July 1st to spend at least a year with us as a Research Associate on the Cancer Center Grant. Dr. Velkley received his Ph.D. from the University of Kentucky in physics in 1968, after which he went to the Bonner Laboratories of Rice University for two years as a Post-doctoral Research Associate. He comes to us directly from the Aerospace Research Laboratories of Wright-Patterson Air Force Base in Dayton, Ohio where he has been doing neutron cross-section compilation.



Edward Ziha, Jr. is an accelerator engineer who comes to us from McDonnell Douglas where he worked as a design engineer. Edward has a M.S. in Electrical Engineering from St. Louis University.

AIR CRASH VICTIMS AIDED BY MIR

On July 23rd, an Ozark Airlines plane crashed short of the runway at Lambert Field after presumably having been hit by lightning. Most of the passengers and crew died initially, but there were sufficient short and long term survivors to provide a token evaluation of the city's emergency disaster capability. These survivors were taken initially to Normandy Osteopathic Hospital for evaluation and then triaged to the various city hospitals for definitive therapy. Barnes was designated to receive all neurosurgical cases of which there were three — advanced warning was sent and preparations for receiving these patients was initiated prior to their arrival.

Jack Curtin, the evening crew supervisor at MIR split his people into three groups — Al Coffman was sent to the 3rd floor to set up for neuro procedures, Jack Curtin and Jim Sutton went to the emergency room with half the crew, while the remainder stayed on 2nd floor to handle the normal flow, Children's ER, and any overflow from Barnes ER. The radiologists on call were split between Barnes ER and 2nd floor MIR.

Initial radiographic survey examination on two of the three patients was performed in the ER facility. Both patients were obtunded secondary to severe head trauma and one had a fracture dislocation of the lower cervical spine, the other had bivalved her pelvis and both had multiple extremity fractures. The third patient was markedly disoriented with severe facial trauma and was sent to 2nd MIR to expedite his

evaluation.

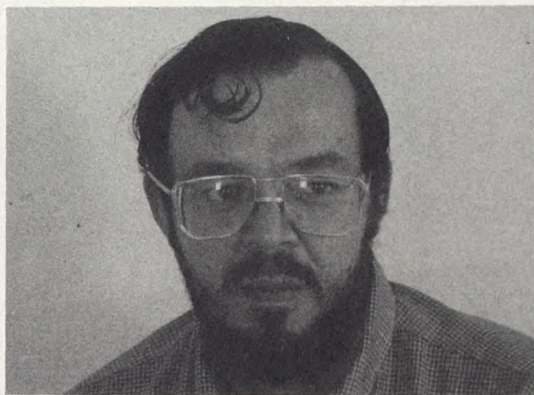
All of these patients represented some of the most difficult problems encountered by a radiology technician, yet were handled with extreme speed and competence. All initial films were diagnostic in quality. The only repeat was of the cervical spine fracture after Crutchfield tongs had been placed. With the radiologist stationed at the Xomat these patients were ready for definitive therapy or additional neurological procedures as soon as the last film was taken. With prior preparation having taken place on 3rd MIR, the floor was ready to receive patients directly from the emergency room x-ray facility. Definitive neurological and abdominal studies were quickly done and the patients were available for definitive treatment.

The 2nd floor facility handled the 3rd patient, another more severe automobile accident victim and the usual hospital load with equal speed and competence. While this small "disaster" represents only a small care load, it does serve to demonstrate that with good leadership, organization, and concern a small motivated crew can efficiently and effectively utilize the broad diagnostic capability available to them. This required cooperation between technicians, nurses and physicians. While I feel the performance of the evening crew that night was as it should be routinely, I wish to commend them for their performance and hope they may serve as an example when the need arises in the future.

Reed Knight, M.D.



Mr. Neil van Hooydonk is a physicist assigned to the St. John's Mercy Hospital, Radiation Therapy Center. He will be training and working with us at Mallinckrodt for the next several months. He has a B.S. in physics and 5 years experience in medical physics with Strong Memorial Hospital, Rochester, New York.



Donald Manson, Ph.D. is in a training position at Mallinckrodt and at St. John's Mercy Hospital for the coming year. Dr. Manson is an Associate Professor in the Departments of Radiological Sciences and Electrical Engineering at the University of Missouri at Columbia.

WHAT'S MY LINE?



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INTERESTING STUDENTS

MIR Summer 1973

The summer months at MIR are a time of farewells, welcomes, vacations, graduations, baseball games, tennis matches, changes, goings and comings!

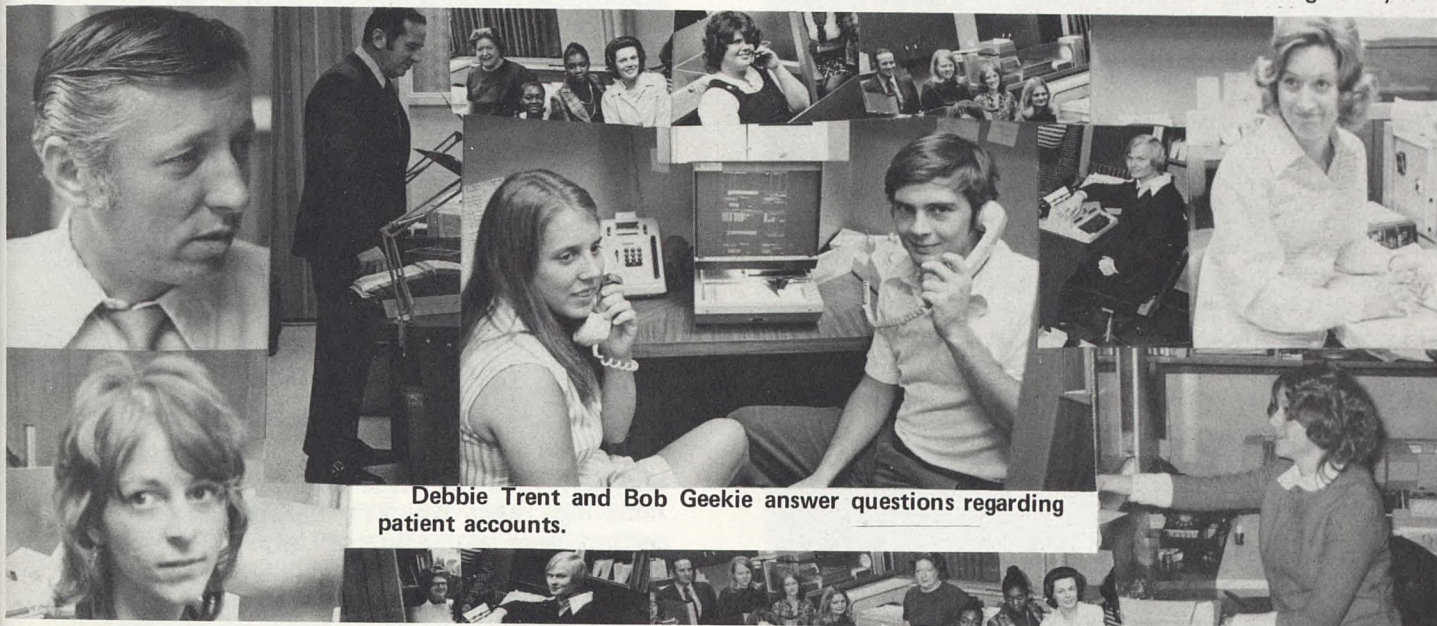
The Accounting Department augmented their personnel for the summer with two young people, Bob Geekie, 19 year old son of Mr. and Mrs. Robert Geekie of Kirkwood and Debbie Trent, 16, daughter of Mr. and Mrs. William F. Trent of Ladue.

Under the supervision of Mr. William Winters, the duties of Bob and Debbie involved bill collection through telephone contact with former MIR patients, filing, drawing up and typing letters, answering questions regarding patient accounts, bringing patient account data up to date, copying data, and general and sundry jobs involved in internal auditing.

Biology, and French and during high school he tutored math students and participated in football, basketball, baseball, and track.

Bob was listed on the Dean's Honor Roll at St. Mary's University and this fall he plans to do student teaching in Chemistry and Biology and also work as a Lab Assistant. He enjoys music and opera, port wine cheese and vichyssoise and he's an intent and avid player of bridge and tennis. Before returning to St. Mary's, Bob traveled to Canada for a vacation of camping and canoeing!

This fall, Debbie Trent began her junior year at Mary Institute where she hopes her placement in the Honors Section will not be too challenged by the



Debbie Trent and Bob Geekie answer questions regarding patient accounts.

Both students found their summer employment at MIR most interesting and enjoyable. Bob felt he had learned to converse more fluently and "better communicate with people" as a result of his telephone contacts. Debbie said she gained much useful experience in general office procedures, but "enjoyed most of all the association and fellowship with the people" with whom she worked in the Accounting Department and appreciated the "esprit de corps" of her co-workers.

Bob graduated from Chaminade College Preparatory School and has completed his first year as a pre-med student at St. Mary's University in San Antonio, Texas. His favorite subjects are Chemistry,

extracurricular activities of Madrigal Singers, Mary Institute Fair Chairmanship, Piano Study, Troubadours, M. I. Choir, and Diary Board.

Her hobbies are tennis, swimming, and pro football (never misses a home game) and Debbie's favorite subjects are English, French, Latin and German — all of which are an outgrowth of her real and earnest interest in foreign travel. A serious traveler, Debbie has taken copious notes and myriad photographs during her trips to Central Europe, Scandinavia, Russia, Hawaii, and the Middle East.

As for college, right now her goal is Oxford University in England but her southern background parents would be pleased with Sweet Briar in Virginia!

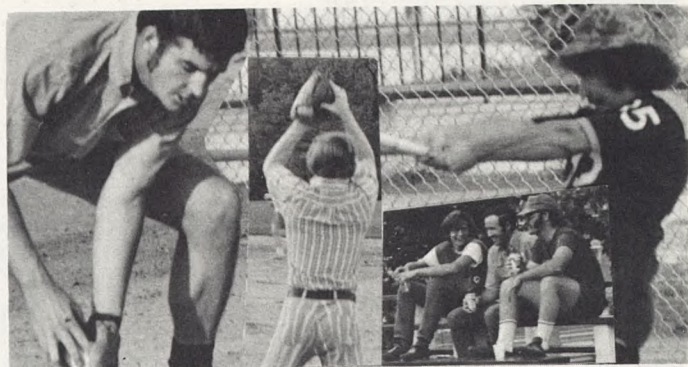
The Name Of The Game Is RUGGED

—as reported by Dr. John L. Cieply
and Terry Karch, Staff Technologist

The long awaited softball contest between the much talented Mallinckrodt residents and the highly questionable technologists finally took place at Shaw Park on August 16th.



When the dust had cleared and the last can of Bacchanalian refreshment had been consumed, the "docs" had had an impressive 14 to 8 romp. The residents' solid hitting attack was buoyed up by several sparkling defensive plays. A perfect throw



from center field by "Rookie" Dan Biello cut down "Speedy" Phil Sotir attempting to score from second on a double. Likewise, "Popgun" Palagallo nailed lumbering Mike Albertina with a perfect peg as he attempted to commit mayhem on the resident's veteran third baseman Jack Forrest. The staff doctors



displayed a complete mastery of the game with additional daring base running as exemplified by rambling Reed Knight's daring bare leg slide into second base and manager John Cieply's attempt to score from second on a routine fly ball to left, which was called back on a bad decision by technologist umpire Dennis Engellage.



In spite of the residents' solid performance, Captain Terry Karch of the technologists expressed confidence that a repeat performance would yield a tech victory. He cited Kerry Shipley's 1903 style baseball uniform as an example of his team's imaginative spirit. He also felt that his team's two top



sluggers Orlando (no relation to Cepeda) and Moser would, in any future contest, be able to get the ball out of the infield. Admittedly, there were solid performances by several of the techs, such as Aly, Karch, Shipley, Albertina, and Barnett, who performed at various intervals and positions. Even Gary Brink's performance on the mound could be described as "solid", which is how the ball was hit when he pitched it.



Perhaps the biggest mistake made by the techs was their male chauvinism and refusal to use the female techs in the first game of what was to be a double header. After receiving several pointers from Drs. Graviss and Cieply while the second game was getting under way, the girls made a staunch protest and were allowed to play. This made the second game, which ended because of darkness, a much closer and more



exciting contest. Joan Fortwengler made some great cookies for players and fans alike.

Rita Calcaterra and Pat Bauer both showed unexpected defensive fielding talent and Diane Harris, Janet Morgan and Hope Brooks all reached bases on solid hits. Of, course, by this time, darkness was falling and we will never know whether the girls would have prevailed.

MIR

CALENDAR OF EVENTS

September 10, 1973

WENDELL G. SCOTT MEMORIAL LECTURE
Harvey Picker, Dean, Faculty of International Affairs,
Columbia University and Co-Founder, James Picker Founda-
tion
(Scarpellino Auditorium, Mallinckrodt Institute), 5:30 P.M.

September 10-13, 1973

AMERICAN HOSPITAL RADIOLOGY ADMINISTRA-
TORS
New Orleans, Louisiana

September 20, 1973

4th DISTRICT M.S.R.T. MEETING
St. Mary's Health Center
6320 Clayton Road, St. Louis, Missouri

September 25-28, 1973

AMERICAN ROENTGEN RAY SOCIETY
Montreal, Canada

October 8, 1973

CITY WIDE RADIOLOGY CONFERENCE
Mokhtar Gado, M.D., Chief of Neuroradiology, MIR
(Scarpellino Auditorium, Mallinckrodt Institute), 5:30 P.M.

October 15-20, 1973

XIII INTERNATIONAL CONGRESS OF RADIOLOGY
Madrid, Spain

October 18, 1973

4th DISTRICT M.S.R.T. MEETING
(Scarpellino Auditorium, Mallinckrodt Institute)

October 20, 1973

REGIONAL REVIEW FOR NATIONAL REGISTRY
EXAMINATION IN RADIOLOGICAL TECHNOLOGY
(Scarpellino Auditorium, Mallinckrodt Institute)

November 2-4, 1973

ACR SEMINAR ON SKELETAL RADIOLOGY
St. Louis, Missouri

November 5, 1973

CITY WIDE RADIOLOGY CONFERENCE
Dr. Frieda Feldman, Associate Professor of Radiology,
Columbia University
(Scarpellino Auditorium, Mallinckrodt Institute), 5:30 P.M.

November 15, 1973

4th DISTRICT M.S.R.T. MEETING
Alexian Brothers Hospital
3933 S. Broadway, St. Louis, Missouri

November 20, 1973

CARMEN LECTURE
Elias G. Theros, M.D., Armed Forces Institute of Pathology
St. Louis Medical Society

November 25-30, 1973

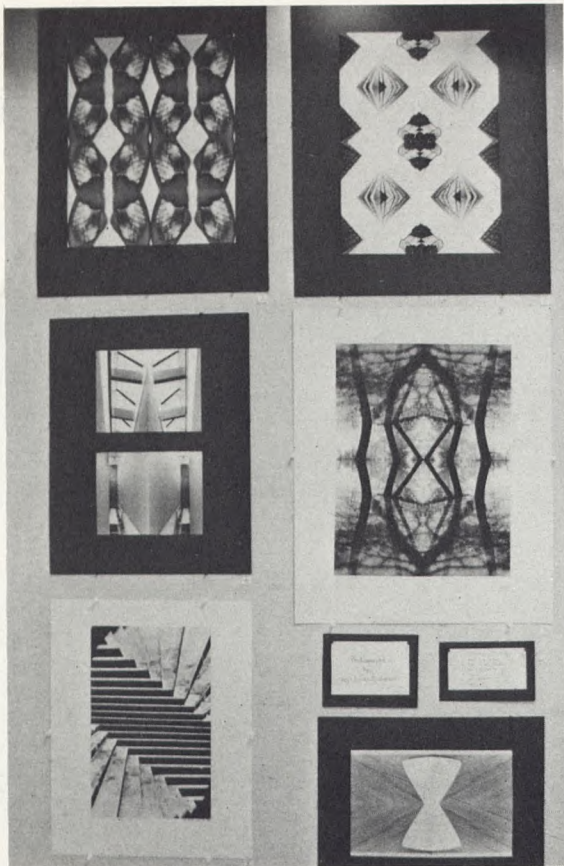
RADIOLOGICAL SOCIETY OF NORTH AMERICA
Chicago, Illinois

December 10, 1973

CITY WIDE RADIOLOGY CONFERENCE
(Scarpellino Auditorium, Mallinckrodt Institute), 5:30 P.M.

December 15, 1973

4th DISTRICT M.S.R.T. CHRISTMAS PARTY
Claymont Bath and Tennis Club



CONTEMPORARY PHOTO EXHIBIT
 — LINDA AND GUY TORSTENSON

FOCAL SPOT

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