

Spring 1974

## Focal Spot, Spring 1974

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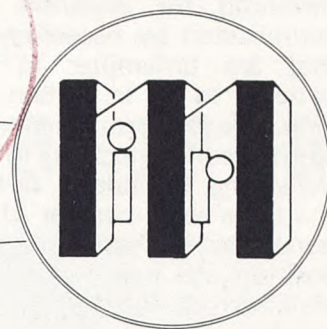
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# FOCAL SPOT



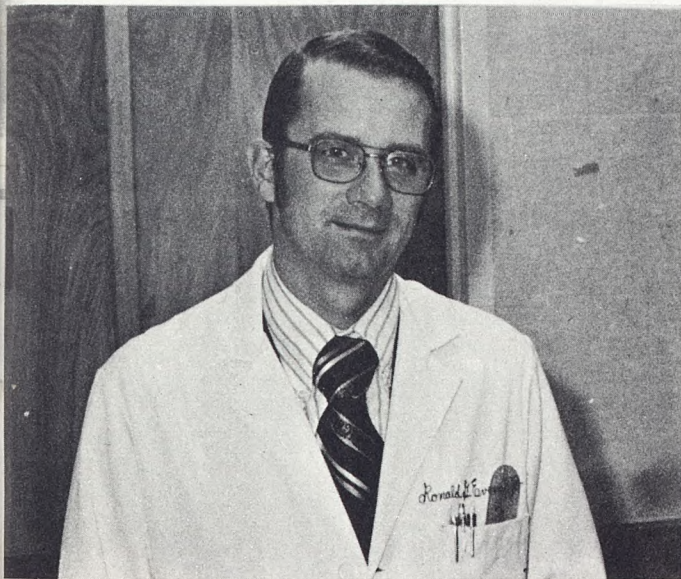
A NEWSLETTER OF MALLINCKRODT INSTITUTE OF RADIOLOGY

VOLUME III

SPRING 1974

NUMBER 9

## CONCERN AND RESPECT BIG IMPERSONAL OPERATIONS - *We Can't Let It Happen At Mallinckrodt Institute*



**Dr. Ronald G. Evens**  
*Director of Mir*

Recently, I renewed my Missouri drivers' license at one of the official state license bureaus. This seems like an easy task and required the completion of an application form, having your picture taken and vision tested, and paying \$3.00. Unfortunately, the

experience was an irritating and uncomfortable one. Let me tell you why: first, several people looked at the various forms and would spell my name, however no one took the time to call me by name. I was always "next". Second, I was ordered from one line to another and at least 50% of the time placed in the wrong line. Third, I found it difficult to complete the forms because of lack of directions and no one seemed willing to explain the form to me. Fourth, the personnel in the office were very inconsiderate to their customers. After waiting in one line for approximately ten minutes (it seemed like ten weeks) and finally arriving in front of a clerk, the clerk took a break and told me to stand in another line. Fifth, I made a mistake on the application form (I admit it was a stupid mistake) and an elderly grandmotherly-type woman scolded me.

Several thoughts went through my mind suggesting various actions. Should I be indignant and tell these people that I was paying their salaries through my taxes? Should I complain to their supervisor and write the governor? In fact, I decided to "stick it out", leaving with a slightly bitter taste in my mouth for large bureaucratic organizations.

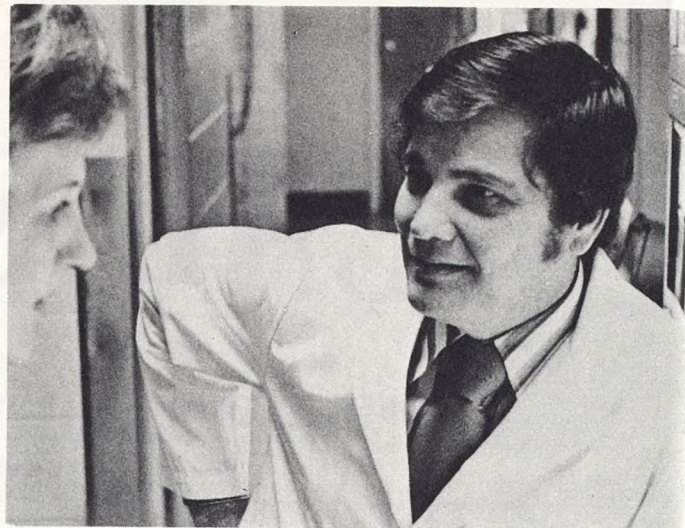
Each time a patient comes to the Mallinckrodt Institute, we run the danger of appearing to this patient as a large, impersonal bureaucratic organization. I believe the danger is greater because our patients are concerned for their health and their

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threshold for irritation is lower. Our forms are complicated by necessity, they use words and terms that are unfamiliar to our patients, we require patients to sit in certain areas and stand in certain lines. We perform uncomfortable examinations that are difficult to explain to anyone, and particularly to the young, the elderly, or the ill.

I hope each member of the Mallinckrodt staff will remember the last time he or she was in a similar position. We may not be able to make a trip to the Mallinckrodt Institute as pleasant as a vacation, but we can show our concern for our patients and demonstrate that each patient is a person who requires our respect.

*Ronald G. Evens, M.D., Director*



Mr. Armand Diaz, Technical Administrator of MIR.



**Concern and Respect for Patients**

# A Page From History - Radiology 1895 - 1896

During our daily work, we give little thought to the origins of the tools we use. Of course, the basic ingredient is the roentgen ray, without which all else is impossible. However, other elements are of great technical importance to the completion of our clinical tasks. We depend on screens, fluoroscopy, contrast materials, cineradiography and stereo views. Without these refinements, the x-ray is of considerably less impact; it is hard to imagine what we would do without these. But it is more amazing that these advances are rooted in the year following the discovery of the x-ray.

In November, 1895, by the fluorescence of a barium platino cyanide screen, Röntgen discovered the x-ray. Using the screen, anatomy was observed and fluoroscopy was born. That year Thomas A. Edison tested a large number of substances (some say 8000) and developed the calcium tungstate screen. He then advocated fluoroscopy rather than exposed plates, hoping to sell large numbers of his instruments. It is to his credit that he gave up advertising the same year when one of his assistants developed radiation injury (hair loss). Later in 1896, Michael Idvorsky Pupin reinforced his dry plate x-ray image with a single calcium tungstate screen. His screens were manufactured in Germany and France but were not widely used because the large crystal size caused fluorescent lag and excessive graininess, obscuring detail. By 1914, cadmium tungstate was the standard screen. Following the development of double emulsion film by Kodak in 1918, the basic double intensifying screen cassette was placed on the market at \$16.50 for the 14 x 17 size.

Edward Haschek, a physicist, and Otto Lindenthal, a physician, injected a hand at autopsy with a contrast mixture too toxic to be used in life. This first angiogram report was published in January 1896. Later that year, J. C. Hemmeter examined the gastrointestinal tract with a toxic radio-opaque. These were the forerunners of our multiple contrast agents.



Wilhelm Konrad Röntgen (1845-1923)

John MacIntyre, an ear, nose, and throat specialist, attempted roentgen cinematography by passing x-rays through a slowly moving frog leg and recording the motion on moving film.

Other major advances during 1896 included application of the stereo principle to roentgenography, the development of an oil-immersed tube by J. Trowbridge and the idea for a rotating anode by R. W. Wood. With these early efforts sprang forth the technically complicated diagnostic modality which we know as radiology and whose daily tools we take for granted.

*by Dr. William Murphy*

## DR. CARLOS PEREZ AWARDED GRANT

The National Cancer Institute has awarded \$62,239 to Carlos A. Perez, M.D., Professor of Radiology, MIR's Division of Radiation Oncology, Washington University School of Medicine, to evaluate new cancer treatment techniques with fewer side effects. The investigation will involve treatment by surgery, radiation, chemotherapy, and a combination of the three for patients with cancers of the brain, lung, head and neck, and rectum. More than 100 cancer patients per year from MIR will be studied in the nation-wide clinical effort involving 40 other university hospitals participating in the study, as part of the cooperative radiation therapy oncology group.



Dr. Carlos Perez  
Professor of Radiology



Alexander P. Turner, Ph.D.

## NEW PHYSICS PERSONNEL

Alexander P. Turner, Ph.D., has joined the Physics Section of Radiation Oncology as an Instructor in Radiology. Dr. Turner received his Ph.D. in Health Physics from the University of Oklahoma. After one year as a postdoctoral fellow in Medical Physics at M.D. Anderson Hospital and Tumor Institute in Houston, Dr. Turner was appointed Head of the Physics Department at Ellis Fischel State Cancer Hospital in Columbia, Missouri, and Assistant Professor in Nuclear Engineering at the University of Missouri.

Dr. Turner is assigned to St. John's Mercy Hospital where he is directing the clinical physics services to Radiation Therapy. His wife, Karen, holds a M.S. degree in Health Physics from the University of Oklahoma. Their home is at Lake Saint Louis where they both enjoy golf, tennis, and sailing and their Norwegian Elkhound dog, Laki.

## DR. BRAMSON, PRESIDENT OF A<sup>3</sup>CR<sup>2</sup>, TO PRESIDE IN NEW YORK

Dr. Bob Bramson, president of the American Association of Academic Chief Residents in Radiology, will preside at the annual meeting to be held at the Waldorf Astoria in New York on May 5-7, 1974.

As Chairman of the steering committee, Dr. Bramson has been instrumental in planning this meeting of A<sup>3</sup>CR<sup>2</sup>, whose purpose is to establish closer relationships with the Society for Chiefs of Academic Radiology Departments and to give people in residency training programs a voice in the organization of various boards and committees.

The annual banquet will be held in the Delegates' Room of the United Nations Building.

## DR. LIN RECEIVES AWARD



HSIU-SAN LIN, M.D., PH.D.

Hsiu-San Lin, M.D., Ph.D., of The Section of Cancer Biology, Division of Radiation Oncology, has just received the National Institute of Health Research Career Development Award.

The purpose of this award is to foster the development of young scientists with outstanding research potential for careers of independent research in the sciences related to health. The duration of the award is for a period of five years.

## LEO LOPEZ TO BEGIN RESIDENCY AT JOHNS HOPKINS

Leo Lopez, who is in charge of the MIR Nuclear Medicine Technology training program will begin a 9 months residency September 1st, in Academic Health Center Management at Johns Hopkins University School of Medicine under the preceptorship of E. James Potchen, M.D., Dean of Management Resources. Upon completion of his 9 months residency, Leo will be granted a master's degree in Health Care Administration from Washington University School of Medicine.

# MIR's NEWEST INSTALLATION

## -- the EMI Scanner

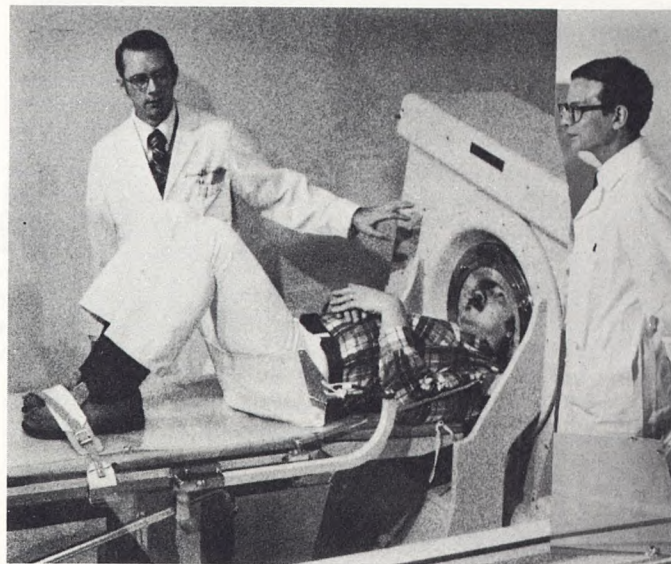
On March 21, 1974, members of the news media observed a demonstration of MIR's \$350,000 EMI Scanner — a new concept in radiology — a coordination of the X-ray tube and computer used to detect blood clots, strokes, brain tumors, cysts, birth defects and some skull injuries.

Ronald G. Evens, M.D., Professor of Radiology and Director of MIR, and Mokhtar Gado, M.D., Assistant Professor of Radiology and Chief of Neuroradiology Section of MIR demonstrated the new facility which is the seventh such installation in the United States.

The machine, developed in England after three years of research, combines X-ray technology with a computer to produce more accurate pictures of the brain than previously possible. The technique has been named Computerized Radiologic Tomography (CRT) by the Institute.

For the first time, an image of the brain can be obtained by a non-invasive method, without the need of injection of contrast media or isotope in the blood vessels or the spinal cord. It is done in less than 30 minutes with the patient fully conscious.

The CRT allows two tomographic layers of the brain to be scanned in four minutes. During this time, the scanner, containing the x-ray source and two extremely sensitive detectors, is rotated slowly around the patient's head, moving in one degree steps. At each step, 160 readings of x-ray intensity are recorded by each detector: A total of 28,800 readings are taken for each slice in a complete 180° revolution from the narrow beam of x-rays passing through the head in a single plane. These readings are collated by the computer to produce a complete picture of the brain.



This system is much more sensitive to variations in brain tissue than conventional x-ray methods and by combining the speed and accuracy of the digital computer with highly sensitive x-ray detectors, it enables 100 times more information to be extracted than with previous radiological methods.

The new scanner is expected to cut costs, reduce hospital stays, eliminate the need for exploratory surgery and aid in the study and treatment of hardening of the arteries of the brain — a machine considered to be the most revolutionary advance in radiology since the discovery of X-rays.

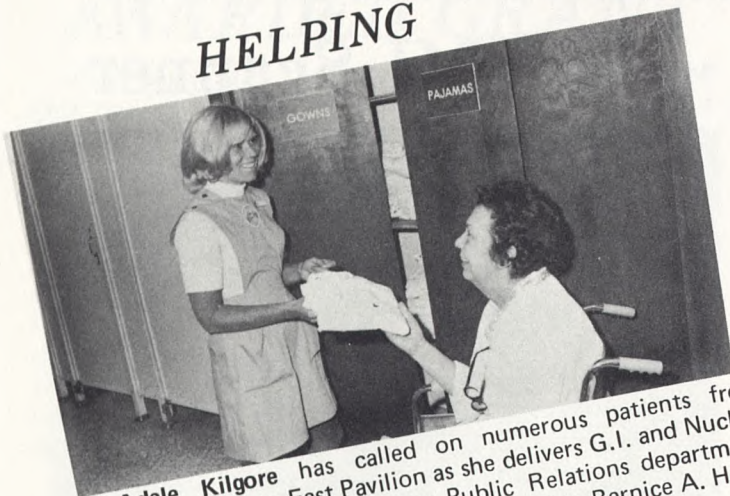
## DR. RONALD EVENS INTERVIEWED

## ON THREE ST. LOUIS TV NEWS PROGRAMS



# VOLUNTEERS AT

## HELPING



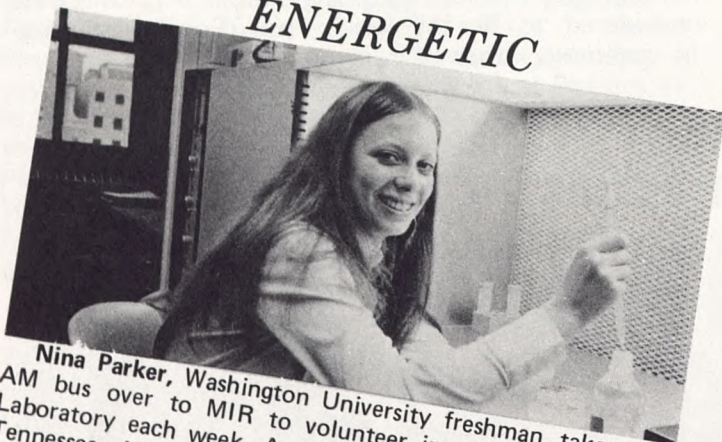
**Adele Kilgore** has called on numerous patients from Queeny Tower to East Pavilion as she delivers G.I. and Nuclear Medicine pamphlets from our Public Relations department. Adele extends a smile and a helping hand to Bernice A. Hoog, a patient in the second floor waiting room.

## SHARING



**Eric Washington** shares his free time from his studies at Forest Park Junior College with patients at MIR, assisting in many ways in the waiting rooms.

## ENERGETIC



**Nina Parker**, Washington University freshman, takes the 9 AM bus over to MIR to volunteer in our Cancer Biology Laboratory each week. A very busy student from Nashville, Tennessee, Nina is shown maintaining tissue cultures using sterile techniques.

## CARING



**Mary Ann Fritschle** devotes her weekly volunteer hours to patients in Radiation Oncology, sharing the fears and concerns of hospitalized therapy patients as each week she visits with them in their rooms and on the Ground Floor waiting areas. Mary Ann, left, chats with patients, Sue Jane Roberts, center, and Leona Lane who are waiting to be treated on the 35 MEV linear accelerator.

## MIR THANKS VOLUNTEERS

Pictured are a few of a group of people who are especially appreciated by MIR for their time and energy given in helping our patients in many areas of the hospital.

To these and other Barnes' volunteers and candy strippers we extend our thanks for their concern, compassion, and assistance which is the essence of all volunteers.

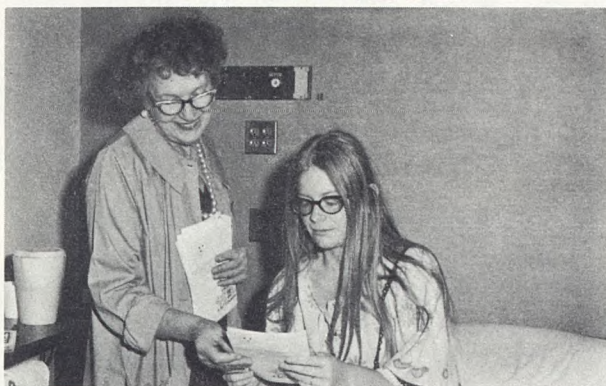
# MIR

## ENTHUSIASM



Linda Rothschild is working with Linda Knight labeling proteins with Bromine 77. Lisa is a freshman at Washington University from New York City. The project is part of MIR's contribution to the University-wide Thrombosis Center. MIR's co-principal investigators are Drs. M. Welch and Barry Siegel.

## FRIENDLINESS



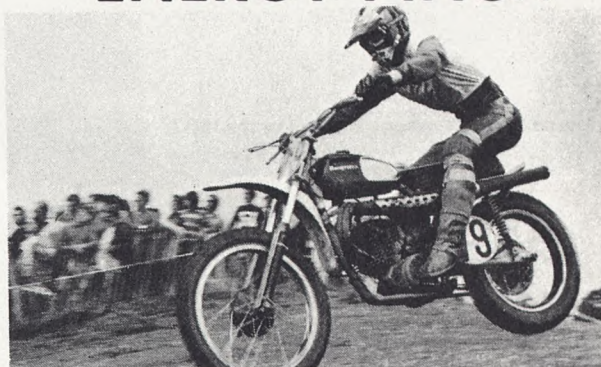
Catherine Rumpf delivers to patient, Julie Brown, one of our x-ray pamphlets which explains the following day's x-ray examination and what it involves. Catherine takes many steps throughout the medical center in distributing a day's quota of 70-80 pamphlets.

## CONCERN



Debbie Benkof, a senior at University City High School, volunteers at MIR 2 afternoons a week through the C.O.E. (Co-Operative Education Program).

# MIR PEOPLE SUGGEST WAYS TO BEAT THE "ENERGY PINCH"



Dr. Richard P. Chepey recommends riding a motorcycle. Not only can you get 50 miles to one gallon of gasoline in using a motorcycle for regular transportation, Dr. Chepey says, but there are many sport activities for leisure time such as motocross (dirt-riding), competition trials where slow speed navigation around natural obstacles is the objective, and then country trailing, which is simply riding dirt trails in the Ozarks or wherever you find them.

Dr. Louis Gilula's suggestions for conserving paper range from re-using envelopes to converting the blank sides of used paper to scratch pads and for use in first typings of letters.

Joe Di Croce, R.T., sometimes uses every other ceiling light instead of all the lights on 4th floor, thereby saving electricity.

Bob Wagner suggests car-pooling when possible and practices what he preaches by 'pooling' with Rex Hill.

Arletta Douglas takes the stairs instead of the elevators and not only saves energy but also gets her exercise.

Jack Curtin, R.T., still has his "victory" garden which helps with the cost of food and he doesn't have to worry about artificial preservatives or pesticide sprays.

Drs. Robert Stanley and Alex Turner use sailboats for recreation — no gasoline, no pollution.

Dr. A. Cacciarelli enjoys sailplaning, a fascinating sport which is flying on the prevailing wind currents in a plane without an engine, hence no gasoline or pollution.

*We haven't yet heard of anyone riding his horse to work and parking it on the Wayco roof, but as soon as someone reports this, we will bring it to you.*



## DR. LILY PALMER-HANES RECEIVES GRANT



Dr. Lily A. Palmer-Hanes, Assistant Professor of Radiology in MIR's Division of Radiation Oncology, has been funded a six months' grant from the Bi-State Regional Medical Program for the project: "Continuing Education in Cancer Control".

This proposal will provide a flow of information on new developments and skills in cancer diagnosis and treatment to professional and allied hospital personnel dealing with malignancies.

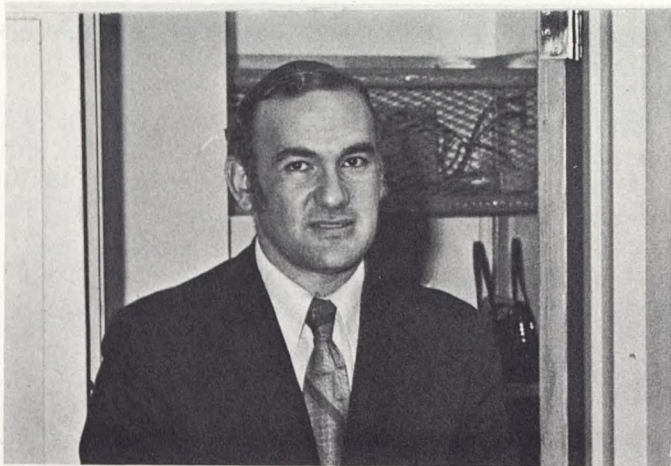
The methodology consists of cancer and radiation oncology workshops with distribution of video tapes and/or slides of the workshop discussions plus data from some of the large cancer centers in the country. Multi-disciplinary teams will also be available for presentations before professional meetings.

In conjunction with this grant, a comprehensive eight hour symposium on cancer of the cervix was held on April 6, 1974, at St. John's Mercy Medical Center and co-sponsored by the Radiation Oncology Division of Washington University School of Medicine, St. John's Mercy Medical Center Radiology Department, and the Department of Gynecology and Obstetrics, St. Louis University School of Medicine.

Speakers were from St. Louis University, University of Queensland, Australia, Washington University, and the University of Texas. The topics crossed gynecology, surgery, pathology, radiation therapy, and radiation physics.

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Effective March 1, 1974 **DR. ALY A. RAZEK** became a Trainee (NCI) in Radiology (Radiation Oncology). In 1973, Dr. Razek was an Instructor of Pediatrics, Division of Pediatric Hematology and Oncology, Washington University School of Medicine and St. Louis Children's Hospital.



Aly A. Razek, M.D.



Supot Boonvisut, M.D.

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Virginia Trent, P.R. Director, and initiator of the continuing art exhibit idea is always delighted to receive "leads" and suggestions of names of talented, creative persons on our staff.

# NEW COMPUTER SYSTEM

Under the guidance of Dr. Gilbert Jost and Mr. Rex Hill, MIR has ordered a new computer system which will be delivered this summer and installed on the 12th floor which is presently undergoing renovation. The computer, a Digital Equipment Corporation PDP-11, will be used as a time sharing system allowing up to 32 people to simultaneously use the system from various locations within the department. The initial configuration will include a central processor with 48K of core memory, a magnetic tape drive, a line printer, and a dual magnetic disc system giving immediate access to over 40 million words of patient information.

Dr. Jost, Mr. Hill, and Mrs. Pamela Studer, who recently joined the department, will be responsible for the design of a system of programs which will initially be used to capture information on all patients entering the department. A data base will be maintained that allows immediate access to information on any patient seen in the department in the preceding 30 days. This will provide information about previous patient visits, the location of patient films, and will eliminate reentry of patient data. The



Mr. Rex Hill, left, and Dr. Gilbert Jost

system will also generate input information for the billing and accounting program which runs on the main campus computer.

Eventually, the system will be expanded to store identifying information on all patients examined in the department in the past five years. Radiology reports will be captured and included with patient data. The complete system will allow physicians to retrieve reports and locate films on any patient previously seen in the department.



Pamela Studer



Susan Snider, Senior Research Technician, is pictured in the "Warm Room" of the Cancer Biology Laboratory facilities where she is working on experiments involving the effects of anti-cancer agents on cultured mammalian cells in vitro. The Warm Room maintains a temperature of 37°C., which approximates body temperature, and resembles a large incubator with no humidity.

## TO JOIN MIR STAFF JULY 1, 1974

**Dr. Philip Otis Alderson** is currently a trainee in nuclear medicine and will remain on the staff as an Instructor in Radiology in the division of nuclear medicine.

**Dr. Alexander A. Cacciarelli** will complete his residency in diagnostic radiology at the Institute and remain on the staff as an Instructor in Radiology for an additional year of experience in pediatric radiology.

**Dr. Edward Cohen** is currently on the staff at Jewish Hospital of St. Louis and will join the staff of the Mallinckrodt Institute as an Instructor in Clinical Radiology.

**Dr. R. Edward Coleman** will complete his training in nuclear medicine and remain on the staff as an Instructor in Radiology in the division of nuclear medicine.

**Dr. Thomas Francis Craven** will join the staff as an Instructor in Radiology following a residency in radiology at St. Louis University.

**Dr. James W. Debnam** is currently on the clinical staff of the Mallinckrodt Institute and will join the full-time staff as an Assistant Professor of Radiology in the bone and joint section of the Institute.

**Dr. Tony Mathias Deeths** will complete his residency in radiology at the Medical College of Wisconsin Affiliated Hospitals and join the staff at the Institute as an Instructor in Radiology in the abdominal roentgenology section.

**Dr. Edward Richard Graviss** will complete his diagnostic radiology residency and remain on the staff as an Instructor in Radiology for an additional year of experience in pediatric radiology.

**Dr. Morris Reed Knight** will complete his residency in diagnostic radiology at the Institute and remain on the staff as an Instructor in Radiology for additional experience in neuroradiology.

**Dr. James E. Marks** will join the staff in the radiation oncology division as an Assistant Professor of Radiology and American Cancer Society Junior Faculty Clinical Fellow. He is currently an American Cancer Society Clinical Fellow at the University of Chicago.

**Dr. Anthony L. Merlis** will complete a diagnostic radiology residency at the Institute and continue on the staff as an Instructor in Radiology for additional experience in neuroradiology.

**Dr. Ernest M. Mittelholzer** will join the staff as an Instructor in Radiology after completing a tour of duty with the United States Army.

**Dr. Bruce J. Walz** will return to the Institute to join the staff in the radiation oncology division as an Assistant Professor of Radiology. He is currently an Instructor in Radiation Therapy at Harvard Medical School.

**Dr. Frederick Rudolf Zivnuska** will complete a traineeship in radiation therapy and remain on the staff in the division of radiation oncology as an Instructor in Radiology and American Cancer Society Junior Faculty Clinical Fellow.

## THE UNSINKABLE MARY FRANCES HICKEY

You can't keep a good woman down! On December 23, Mary Frances Hickey, the Queeny Tower X-ray transcriptionist, broke her right hip, a real problem in a person already confined to a wheel chair. What a way to spend Christmas! The hip was pinned on Christmas Eve and shortly thereafter Mary Frances was out of bed and in her chair. After an amazingly short convalescence, she went home on January 19 and returned to work full time on February 7, raring to go! Those of us in Queeny Tower X-ray who rely on her efficiency and cheerfulness welcomed her back much sooner than any of us had expected.

Emily Smith, M.D.



MARY FRANCES HICKEY

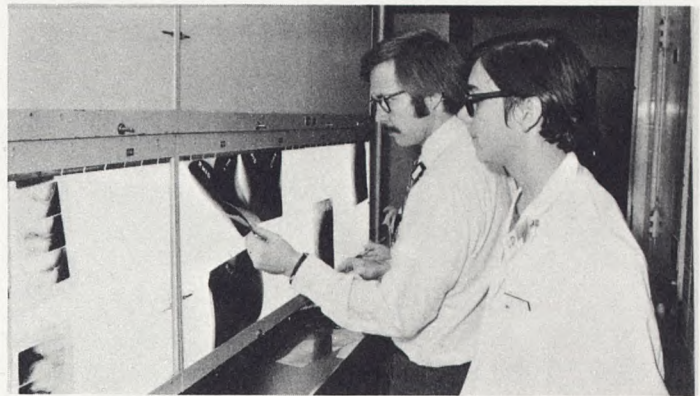
# EXPLORERS VISIT MIR

The young people running about MIR, with a white jacket and attractive red, blue, and gold patches are not extra young medical students but rather Explorers. Explorers, which are a division of the Boy Scouts of America, are primarily high school students exploring various careers in life, although the age limit extends to 22 years old. At Washington University Medical Center, the students are exploring the various aspects of medicine, some of which may be their life's career. Besides now being co-ed, the explorers of today differ from those of the past in that students are not required to have participated in cub scouting or boy scouts.

In the experimental program conducted in conjunction with the Mallinckrodt Institute of Radiology, the students are allowed to closely observe radiological procedures on various floors of MIR, primarily on the second floors. Most students spend about two hours each week observing the radiologists and technologists performing various x-ray examinations. The two month program expired on April 14, after which it will be reviewed by MIR and possibly extended into the future.



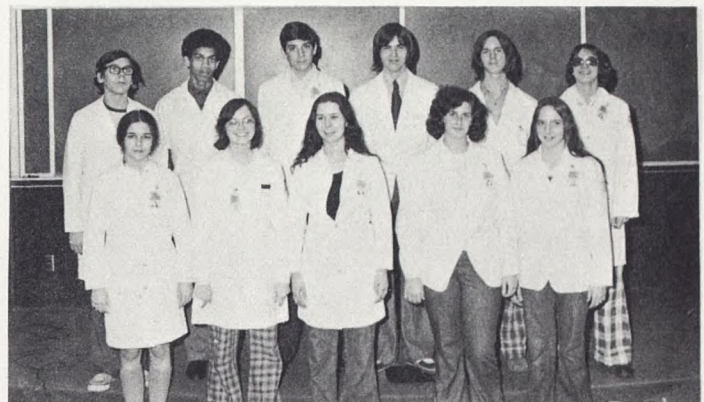
Tom Krull, Explorer scout, observes while Joe Stojeba, R.T., Technical Supervisor, 2nd floor, explains x-ray procedure to patient.



Mark Richardson, Explorer scout, observes as Dr. Thomas Fuller views radiographic films.

Michael Holmes, the Explorer Post President, interviewed Jack Curtin, R.T., Technical Supervisor of the MIR night shift, who commented: "I think it is fantastic for the medical profession to have today's youth enlightened in the field of medicine. This way, students who are either curious or uncertain of the roles that are available in the medical profession can see in great detail the possibilities there are for them before they actually commit themselves to the medical profession."

Exploring, the career-oriented program of the Boy Scouts, was founded 62 years ago and has more than 500,000 members, 120,000 of them young women.



Front row, left to right, Julie Frane, Kim Gregson, Kathy Lynch, Denise Person, Mary Lodoly. Second row, left to right, Mark Richardson, Mark Mitchell, George Lodoly, Mike Holmes, president, Mitch Mahon, Tom Krull. Not present: Mary Hart, Tina Hart, Denise Bonzon, Sylvia Sleyster, Eileen O'Connor.



# MIR GAMUT

MIR Christmas Party

# Help Keep FOCAL SPOT Informed of Your Activities

Dear Alumni:

To help us keep your former house officers or faculty and friends apprised of your achievements, we would appreciate your taking a few minutes to fill out the following questionnaire.

Name

Class

Address

Recent activities (publications, promotions, etc.)

Honors, fellowships, medals, honorary degrees

Major field of research or study

Special interests

Please fold, staple and mail.

**We also appreciate receiving photographs and press clippings**

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Return address:

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Ronald G. Evens, M.D.  
Director  
Mallinckrodt Institute of Radiology  
510 S. Kingshighway  
St. Louis, Missouri 63110

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WHAT'S  
UP,  
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**Dr. Robert Scheible** has been appointed Chief Resident for 1974-75 and **Dr. Gil Jost** Co-Chief Resident. Drs. Scheible and Jost will be working closely with Dr. Jack Forrest in the continued development of MIR's residency program.

**Dr. Carlos Perez** has been appointed Chairman of the Radiation Therapy Committee of the Southeastern Oncology Group. Members of the group at Washington University are Drs. Virgil Loeb, Edward H. Reinhard, Cary A. Present, Shabbir H. Safdar, and from Radiation Oncology, Drs. William E. Powers, Carlos A. Perez, William B. Mill, Franciska Lee, and Lily Ann F. Palmer-Hanes.

**Dr. Tom Staple** presented "Double Contrast Arthrography of the Polycentric Knee" at the annual meeting of the American Academy of Orthopedic Surgeons in Dallas, Texas.

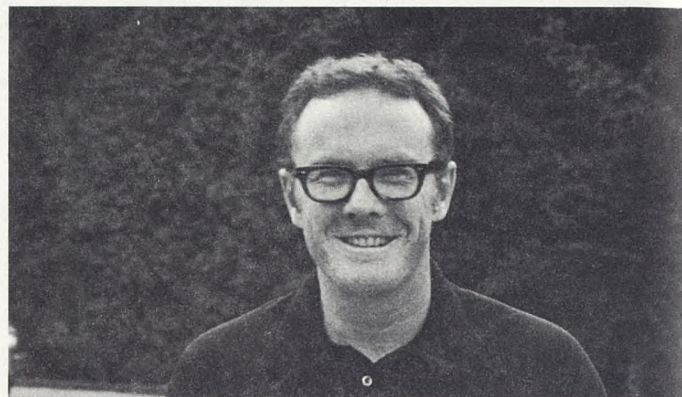
**Michael J. Welch, Ph.D.**, presented the following papers at the International Symposium on Radiopharmaceuticals sponsored by the Society of Nuclear Medicine and the U.S. F.D.A. and held in Atlanta, Georgia: "The Solution Chemistry of Carrier Free Indium"; by Michael J. Welch and Teresa J. Welch. "Critical Review of Radiolabeled Fibrinogen: Its Preparation and Use"; by Michael J. Welch and Kenneth A. Krohn.

Dr. Welch was also co-author with Linda Knight, Kenneth Krohn, Billie Sponer, and Lowell P. Hager, of the paper: "Bromine - 77: A New Protein Label", presented by Kenneth Krohn.

## To Attend London Meeting

**Drs. Emily Smith and Stuart Sagel** will attend the Fleischer Society meeting on chest roentgenology in London, England, May 20-24, 1974.

**Dr. Fred Zivnuska** has been awarded a Junior Faculty Clinical Fellowship from the American Cancer Society for one year beginning July 1, 1974. One of the activities of the fellowship involves a retrospective study of the prognosis of patients having endometrial involvement of cervical carcinoma. Another major study will be the calibration and dosimetry of the low energy electron beam from the 35 MEV Linear Accelerator with clinical application in the whole body election treatment of mycosis fungoides, which he will conduct in association with **Dr. J. A. Purdy** from the Physics Section.



**Dr. Fred Zivnuska**

**Dr. C. A. Perez** presented the following lectures in February, 1974: "Limitations of Radiation Therapy and Its Role in Multidisciplinary Cancer Care" and "Tumor Immunology Using as an Experimental System a Murine Lymphosarcoma" at the University of Arizona, Tucson, and "Radiation Therapy in the Management of Carcinoma of the Prostate" at Roswell Park Memorial Hospital, Buffalo, New York.

The following lectures were given by **C. A. Perez, M.D.** on March 5, 1974 at the Atlanta Graduate Medical Assembly, Atlanta, Georgia: "Radiation Therapy in the Management of Localized Carcinoma of the Prostate", "Radiotherapeutic Approach to Cancer of the Cervix"

Dr. Perez also presented "Immunologic Reactivity of Draining Lymph Nodes" at the Conference on Interaction of Radiation and Host Immune Defense Mechanism in Malignancy, Greenbriar, West Virginia.

## HONORED

**Dr. Tom Staple** was appointed a Fellow in the American College of Radiology at the 51st annual meeting in New Orleans in April.

**Dr. Carlos Perez** was appointed a 3-year member of the Advisory Committee of the Division of Cancer Treatment of the National Cancer Institute, effective July 1, 1974.

### PUBLICATIONS:

**Drs. J. V. Forrest & S. S. Sagel** have contributed a chapter entitled *"The Role of Ancillary Radiologic Procedures in the Diagnosis of Chest Disease"* to Current Concepts in Radiology, soon to be published.

**Drs. H. MacMahon, J.V. Forrest, D. Weisz and S.S. Sagel** have written an article entitled *"Massive Tumor Embolism During Pneumonectomy"* to be published in Annals of Thoracic Surgery.

*"Radiology of Angiodysplasias of the Limb"* by **Drs. J. Bliznak and T. W. Staple** appeared in the January, 1974 issue of Radiology.

**Drs. R.F. Bramson, M. Mikhael, J.V. Forrest and S.S. Sagel** have written an article entitled *"Recurrent Hodgkin's Disease Manifesting as a Pleural Mass"* to be published in the journal, CHEST.

**Drs. S. S. Sagel and J. V. Forrest** have written an article entitled *"Fluoroscopic Assisted Lung Biopsy Techniques in the Definitive Diagnosis of Mid and Peripheral Lung Lesions"* to be published in the Journal of the American Medical Assoc.

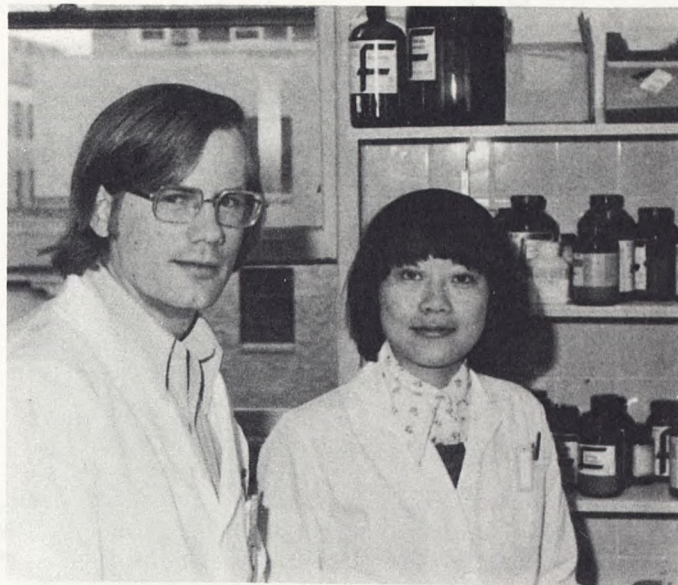


**Dr. Edda O. de Sevilla** is the mother of a baby boy, Angel Rey de Sevilla II, born December 24, 1973. Mr. de Sevilla is completing his Master's Degree in Business Administration at Washington University.

**Dr. and Mrs. Gil Jost (Peggy)** are the proud parents of a new little daughter, Sarah Christine, born February 13, 1974.

**Dr. and Mrs. W. B. Davis (Sylvia)** have a new son, Omar Rashad, born January 28, 1974.

## HUSBAND AND WIFE WORK IN MIR LAB



**Dr. John Harwig**, Research Instructor in Nuclear Medicine in Radiology, and his wife, **Sylvia**, Research Assistant, work in the MIR Nuclear Medicine Laboratory. Dr. Harwig's research work is in thrombosis related projects.

Dr. Harwig and Sylvia, who is from Hong Kong, met in the Chemistry Department of Washington University. They have a 3 year old daughter.

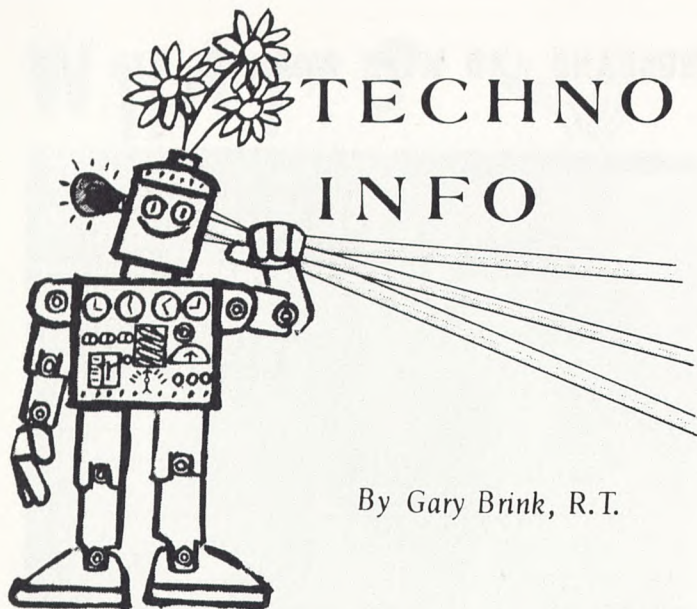
## NEW ARRIVALS

### "THREE OF A KIND" – Dr. Sagel

**Dr. & Mrs. Stuart Sagel (Beverlee)** announce the birth of a third son, Brett Alan, on March 24, 1974. **Dennis Engelage, R.T., and Mrs. Engelage (Karen)** are the proud parents of a second daughter, Jennifer Denise, born September 21, 1974.

**Dr. and Mrs. Lance Lembeck (Sharon)** have a new son, Luke Duncan, born December 13, 1973.

**Dr. and Mrs. Alexander Cacciarelli (Jo Ann)** have a new son, Alexander Michael, born December 23, 1973.



By Gary Brink, R.T.

Armand Diaz, RN, RT, FASRT, and Gary Brink, RT are both slated to address the members of the Nebraska Society of Radiologic Technologists at their annual meeting in April. Armand Diaz will be presenting a lecture entitled "The Role of the Radiologic Technologist During Computerized Axial Tomography with the E.M.I. Scanner"; Gary Brink's presentation will be "The Outlook of Socio-economic Advancement in Radiologic Technology".

At the annual essay contest conducted by the Fourth District, M.S.R.T., the following people won awards:

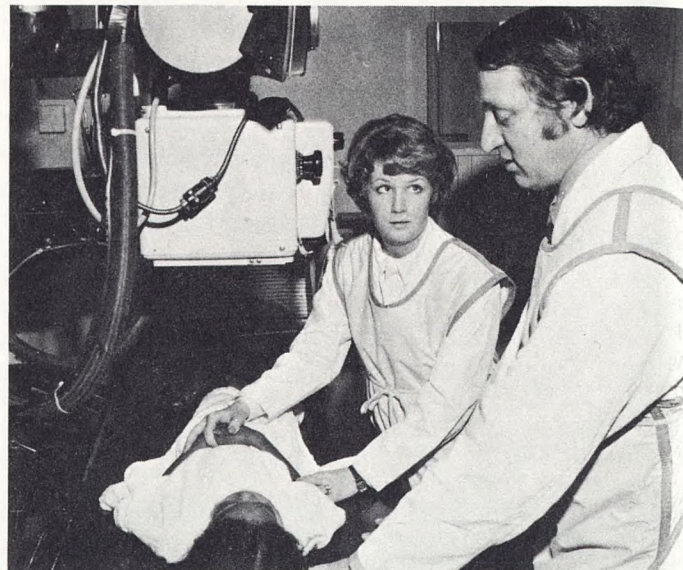
In the Technologist Category, **Terry Karch** won the first place award with his paper entitled "How Panoramic Radiography Plays an Important Role in Clinical Diagnosis"; **Jim Sutton** placed second with "The Need and Uses for Behavioral Objectives in Radiologic Technology"; **Phil Sotir** received third place, the title of his paper being "Basic Fundamentals of Pediatric Radiology".

In the Student Category, **Debbie Oberto** received the first place award with "Tomography and Its Uses in Special Procedures"; second place was awarded to **Sally Brendle** for her paper, "Barium Enema"; and **Pat Bauer** placed third with her paper entitled "Possible Effects of Radiation and Some Means of Protection".

**Jim Sutton**, R.T., will receive his A.S. degree in Radiologic Technology from Forest Park Community College in May, 1974.

**Joseph DiCroce**, R.T., recently completed a 2½ day educational course sponsored by Eastman Kodak Company and which concentrated on the theory and operation of automatic film processors.

## VISITOR TO MIR PEDIATRICS



Sally Herring, R.T., a native of Fort Worth, Texas, and recently appointed Chief Technologist of Fort Worth's Children's Hospital visited MIR for two weeks in February to observe the technological service provided in Pediatric Radiology. Dr. Thomas Lipscomb, who trained at MIR and is now Chief Radiologist at Fort Worth's Children's Hospital arranged for Sally to visit MIR. After one day's observation of the fifth floor technology staff Sally was most enthusiastic in her appreciation of their fine teamwork, efficiency, and warm and friendly approach and handling of the young patients. At the end of two weeks, Sally was even more favorably impressed with the service and skill provided by the radiologists and technologists in Pediatrics.



Within the fifth floor motif is a fantasy art work by LuAnn Lipscomb, wife of Dr. Thomas Lipscombe. Pictured with Sally Herring are Phil Sotir, R.T., Technical Supervisor, and Johnnie Moore, R.T., Assistant Supervisor.

# CONGRESSMAN JAMES SYMINGTON ADDRESSES TECHNOLOGISTS

On January 18th, Congressman James W. Symington, representative of Missouri's Second Congressional District, addressed the Fourth District Missouri Society of Radiologic Technologists concerning current medical legislation. In the context of his address, delivered in Scarpellino Auditorium, Congressman Symington mentioned that, since most legislators are lawyers, they have no idea of the needs pertinent to medical personnel. He recommended that all persons involved in the field of allied health write their Senators and Congressmen stating their views, especially in the realm of mandatory minimum standards of education and training for radiologic technologists.

Following the formal meeting, Congressman Symington lingered to speak personally to some of the Society concerning the terms of "technician" and "technologist" and assured us that he would inform Washington that our profession was comprized of radiologic technologists. He also generously offered his time to return at a future date at our request, to again address the Society.

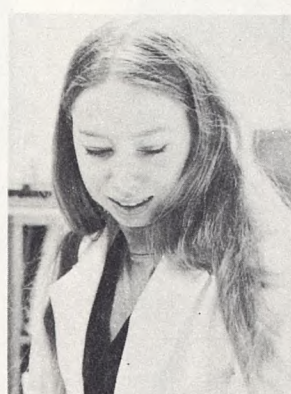


Gary Brink, R.T., (left) Chief Technologist of MIR and president of Missouri's district IV, welcomes Robert C. Best, ASRT executive director, and first "Diaz Professional Education" lecturer.

A Mammography Seminar sponsored by the Fourth District Missouri Society of Radiologic Technologists was held in Scarpellino Auditorium on March 23, 1974. The program included as one of its' featured speakers, Dr. Myron Moskowitz, Director of Breast Cancer Detection Center at the University of Cincinnati. Attended by 100 people, the Seminar was produced through the efforts of Judy Cortner, R.T., the Education Committee Chairman of the 4th District.



# SECRETARIES OF MIR



Gail Agnew  
Kate Anderson  
Sharon Baudo

Cary Breining  
Ann Brock  
Susan Brown  
Sue Day

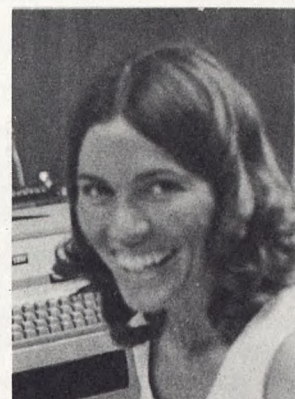
Radiation Oncology  
Radiation Sciences  
Musculoskeletal and Peripheral  
Angiography  
Nuclear Medicine  
Pulmonary Radiology  
Radiation Safety  
Abdominal

Connie Di Cristina  
Janet Di Maria

Marie Entessar  
Harriet Fieweger  
Susan Hartner  
Margy Hojjati

Business Administrator  
Cancer Biology Section of  
Radiation Oncology  
Nuclear Medicine  
Technical Administrator  
Radiation Sciences  
Physics Section of Radiation  
Oncology

# DO YOU KNOW WHO THEY ARE?



**Jana Kesler**

**Becky Leung**

**Jane McBride**

**Irene Mulac**

**Bernice Phillips**

**Carol Pohlman**

Cancer Biology Section of  
Radiation Oncology  
Assistant to Administrative  
Secretary of Director  
Records

Nuclear Medicine  
Radiation Oncology  
Radiation Oncology

**Linda Sanderson**  
**Mary Jo Sandretto**  
**Rosemarie Smith**  
**Joyce Stephens**  
**Betty Thomas**  
**Donna Troeckler**

**Jane Woods**

Radiation Oncology  
Cardiovascular  
Director of MIR  
Neuroradiology  
Staff and Resident Physicians  
Cancer Biology Section of  
Radiation Oncology  
Pediatric Radiology



# MIR Alumni Activities

## '30s

**C. Allen Good, M.D.**, Rochester, Minnesota, was honored by a scientific program and banquet given by former students at the time of his retirement from Mayo Clinic in 1973. He is secretary of the American Board of Radiology and serves on the Residency Review Committee for Radiology.

**Leander A. Malone, M.D.**, Terre Haute, Indiana, is working at Putnam County Hospital in Greencastle, Indiana. He was recently made a Distinguished Eagle Scout.

## '40s

**James P. Steele, M.D.**, Yankton, South Dakota, is a professor of radiology at the University of South Dakota and the University of Nebraska, and director of the department of radiology at the Sacred Heart Hospital in Yankton. In 1973 he was elected as vice-president, American College of Radiology.

## '50s

**Dallas D. Anthony, M.D.**, Springfield, Missouri, was named a Fellow of the American College of Radiology, 1973. He is also a member of the Board of Directors of the Missouri Radiological Society and a councillor to the American College of Radiology.

**Richard I. Benz, M.D.**, Escondido, California, is chief radiologist at Palomar Memorial Hospital. He makes a hobby of flying and is a member of the Baja Bush Pilots.

**Robert S. Lackey, M.D.**, Charlotte, North Carolina, is chief of the department of radiology at Charlotte Memorial Hospital and president of the Charlotte Radiological Group.

**John C. Lemon, M.D.**, is an associate professor of clinical radiology at the University of Colorado Medical Center in Denver.

**John S. Spratt, Jr., M.D.**, is professor of surgery and professor of community health and medical practice at the University of Missouri, Columbia. He is currently director of the Cancer Research Center in Columbia.

## '60s

**Ray Brinker, M.D.**, New York, New York, is chief of neuroradiology at St. Vincent's Hospital in New York City.

**Erik Carlsson, M.D.**, San Francisco, California, was elected secretary-treasurer of the North American Society for Cardiac Radiology.

**Robert E. Hurley, M.D.**, is residing in Jamestown, North Dakota.

**Hywel Madoc-Jones, M.D.**, graduated with honors from the University of Chicago Pritzker School of Medicine. He was awarded the John Van Prohaska Award for the "most outstanding potential" in teaching, research and clinical medicine." He is presently an intern at the University of Chicago.



Dean Joseph Ceithaml presented the Van Prohaska Award to Dr. Madoc-Jones at the graduating banquet, June, 1973, in Chicago.

**John C. Stears, M.D.** is an associate professor of radiology at the University of Colorado Medical Center in Denver.

## '70s

**Charles S. Aring, M.D.**, is with the Permanente Medical Group in Santa Clara, California. Outside interests include skiing, biking, hiking, camping, kayaking, and hardwood-furniture making.

**Charles Conrad Carter, M.D.**, is a professor of neurology at the University of Oregon Medical School in Portland.

**Larry L. Cohen, M.D.**, moved to Santa Fe, New Mexico.

## MIR Poet

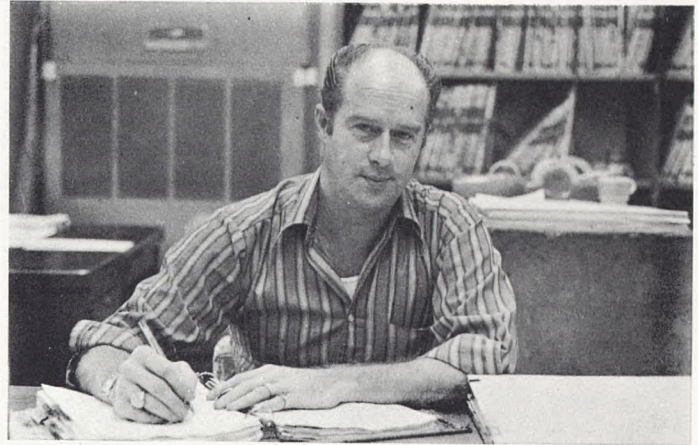
Harold Kaiman, M.D., recently moved to Lyndhurst, Ohio.

Jeannie Kinzie, M.D., Shorewood, Wisconsin, is an assistant professor of radiology at the Medical College of Wisconsin and is a 1973-74 Advanced Clinical Fellow of the American Cancer Society.

P. Ruben Koehler, M.D., Salt Lake City, Utah, is a professor of radiology at the University of Utah Medical Center. He is currently president of the International Society of Lymphology and president-elect of the Utah Radiological Society.

Ira J. Malter, M.D., Pomfret Center, Connecticut, is chief of nuclear medicine at the Day Kimball Hospital in Putnam, Connecticut. The Malter's second son, Evan Andrew, was born January 21, 1974.

Mary Poncel, M.D., is now in part-time private practice in radiology in Albuquerque, New Mexico.



Eugene Hood

The poem "Standing Tall" is one of several hundred written by Eugene Hood, Supervisor of the MIR Film Library Warehouse. His poetry has been purchased by Random House for future publication. Eugene also composes music and sings Sunday evenings at the Cheshire Inn.

While his music is predominately Country and Western, his poetry covers a wide range of subjects and expressions of different moods. He and his wife have three musical children: their 13 year old daughter is an accomplished flutist and their two sons play the guitar.

The following is an example of Mr. Hood's poetry.

### STANDING TALL

*Love, Hate and all the other feelings of man  
Sort of determines, among man, how we will stand  
Knowing how to suppress or display these factions  
Will indicate our personality, thru our actions*

*For some, it seems difficult, to just be what they are  
Their ego demanding, they soon go too far  
Their mannerisms and lack of concern soon offends  
Getting to the point, where they lose their friends*

*Yes so don't blame your fellow men, for all your wrongs  
Put everything in the proper perspective, where it belongs  
Accept the fact that you are you and I am me  
And we are equal, although different, for all to see*

*Learn how to feel for others with much compassion  
Not degrading them for lack of knowledge or for fashion  
Appraise yourself, have the concern and love for all  
You'll find yourself, among man, Standing Tall*

Eugene E. Hood

## MIXES PSYCHOLOGY WITH DOSIMETRY



Helen Fotenos, Dosimetrist in Radiation Oncology, will receive her B.S. degree from Washington University on May 19, 1974. Helen, who has been attending Washington University's evening school since 1964, is majoring in Psychology and has been listed on the Dean's List for scholastic excellence since the night school initiated this honor for their students.

One of her most exciting courses was an archeology course which she took in Rome, Italy, in the summer of 1970. Her herbarium collection, which she assembled for a Spring Flora course, was given to Shaw's Garden as a part of their international exchange program.

Helen plans to continue her studies towards a Ph.D. in Psychology.

## The 35 MeV Accelerator

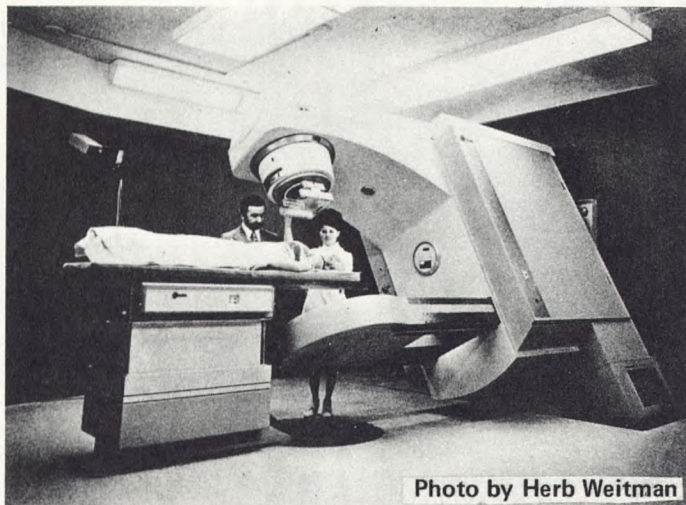
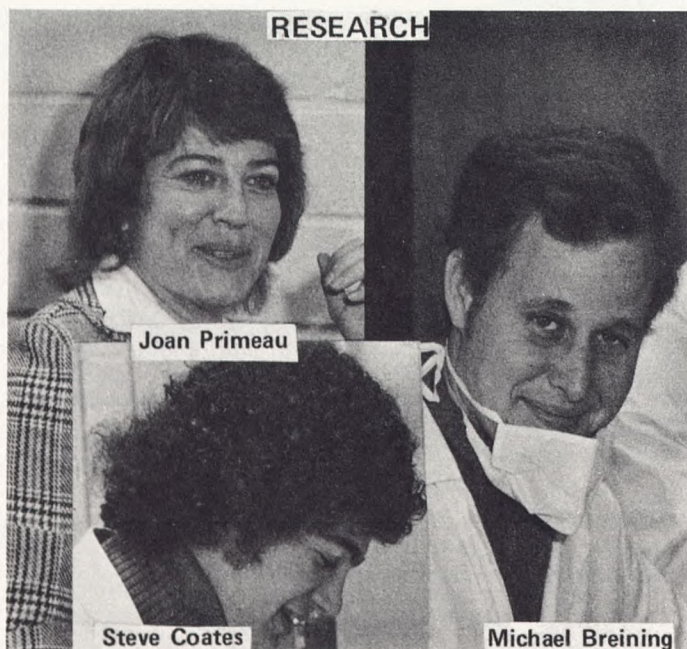


Photo by Herb Weitman

## RADIATION ONCOLOGY REPORTS . . .

The 35 MEV Linear Accelerator for treatment of deep seated cancer has been in operation for patient treatment since early February, 1974. Dr. James A. Purdy is directing the Physics Section's evaluation of the new accelerator.

## NUCLEAR MEDICINE DIVISION



RESEARCH

Joan Primeau

Steve Coates

Michael Breining

## 1974 SUMMER FELLOWSHIP IN RADIATION ONCOLOGY June 24 - August 30, 1974

(Clinical elective if taken for academic credit)

Applications are now being accepted for a Summer Fellowship in Radiation Oncology. Fellows will participate in clinical activities and observe patients being treated in the Division of Radiation Oncology at the Mallinckrodt Institute of Radiology and the Oncology Section of the Department of Pediatrics of Washington University. In addition to basic concepts in management of cancer patients, fellows will be introduced to the principles of physical diagnosis. Those who desire a research-oriented experience will acquire basic knowledge in laboratory investigations concerned with normal and tumor cell population kinetics, the effects of ionizing radiation and chemotherapeutic agents on normal and malignant cells and basic immunological concepts of cancer.

All medical and dental students are eligible for the fellowship program. Students should apply to Dr. Lily Palmer-Hanes, MIR's Division of Radiation Oncology.

The stipend is \$100 a week for fellows. Students who take the program as a clinical elective will not receive remuneration.

In selecting students for the program, the following items will be considered: 1) motivation and interest in Oncology as reflected in the brief essay to be submitted with the application, and as reflected in a personal interview, and 2) academic achievement.

## VISITS MIR



Corrado Gurgo, Ph.D. of Naples, Italy.  
Research Project, Cancer Biology Laboratory.

## WEDDING BELLS



On Saturday, December 29th, 1973, Miss Gloria Detrick was married to Mr. Robert J. Grogan at St. Luke's Episcopal Church in Gladstone Peapack, New Jersey.

Gloria, a graduate of Morristown Memorial Hospital School of Radiology, is a Radiologic Technologist in neuroradiological special procedures. Her husband is a graduate of Marquette University of Wisconsin and is in his third year of medical school at Washington University.



Marty Schudel, Student Technologist, and Mark Bramstedt, Forestry Student at the University of Montana, will be married on September 7, 1974.

Mary Dale, Student Technologist, and Victor Kleiber, of St. Louis, will be married June 15th, 1974.

## MIR CALENDAR OF EVENTS

**March 31 – April 5, 1974**

AMERICAN COLLEGE OF RADIOLOGY  
New Orleans, Louisiana

**April 1–5, 1974**

AMERICAN COLLEGE OF RADIOLOGY  
New Orleans, Louisiana

**April 8, 1974**

CITY WIDE RADIOLOGY CONFERENCE  
Gastrointestinal Radiology, Dr. Sumner Holtz  
St. Luke's Hospital, St. Louis, Missouri  
(Scarpellino Auditorium, Mallinckrodt Auditorium), 5:30 P.M.

**April 23–27, 1974**

AMERICAN RADIUM SOCIETY  
Maui, Hawaii

**May 5–8, 1974**

SCARD and AAACRR  
New York, New York

**May 13, 1974**

CITY WIDE RADIOLOGY CONFERENCE  
Chest Roentgenology, Dr. Benjamin Felson  
University of Cincinnati, Cincinnati, Ohio  
(Scarpellino Auditorium, Mallinckrodt Auditorium), 5:30 P.M.

**May 19–22, 1974**

RADIOLOGISTS BUSINESS MANAGERS ASSN.  
Kansas City, Missouri

**June 10–14, 1974**

SOCIETY FOR NUCLEAR MEDICINE  
San Diego, California

**June 22–27, 1974**

AMERICAN MEDICAL ASSOCIATION  
Chicago, Illinois

**July 6–11, 1974**

AMERICAN SOCIETY OF RADIOLOGICAL TECHNOLOGISTS  
Philadelphia, Pennsylvania

**September 24–27, 1974**

AMERICAN ROENTGEN RAY SOCIETY  
San Francisco, California

## MIR BOWLING CHAMPION ON TV

Kris Curtin, Typist on the Scheduling evening shift, appeared on the "Pin Busters" program on Channel 30 and held on to her champion title for three weeks before she was defeated by 6 pins.

It was a bitter pill to swallow but Kris can still be proud of her 147 average with a high game of 217.



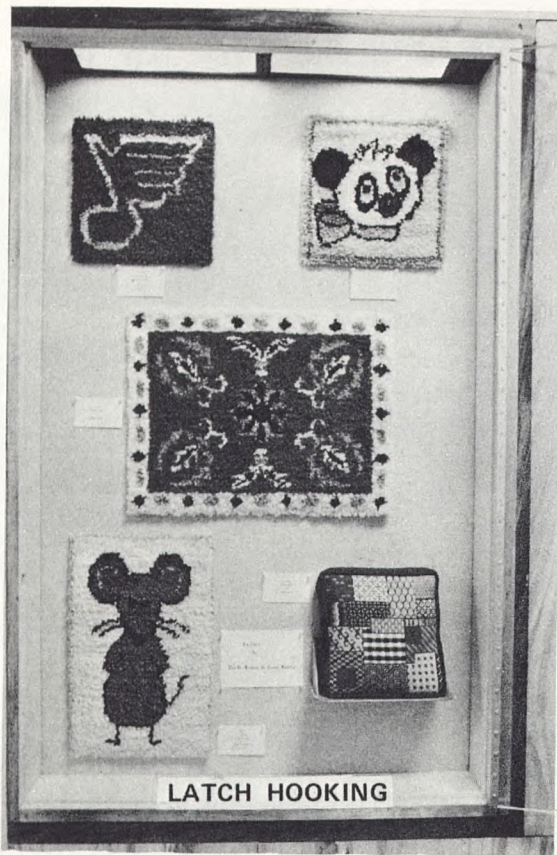


EXHIBIT BY THE DR. RONALD G. EVENS FAMILY

## FOCAL SPOT

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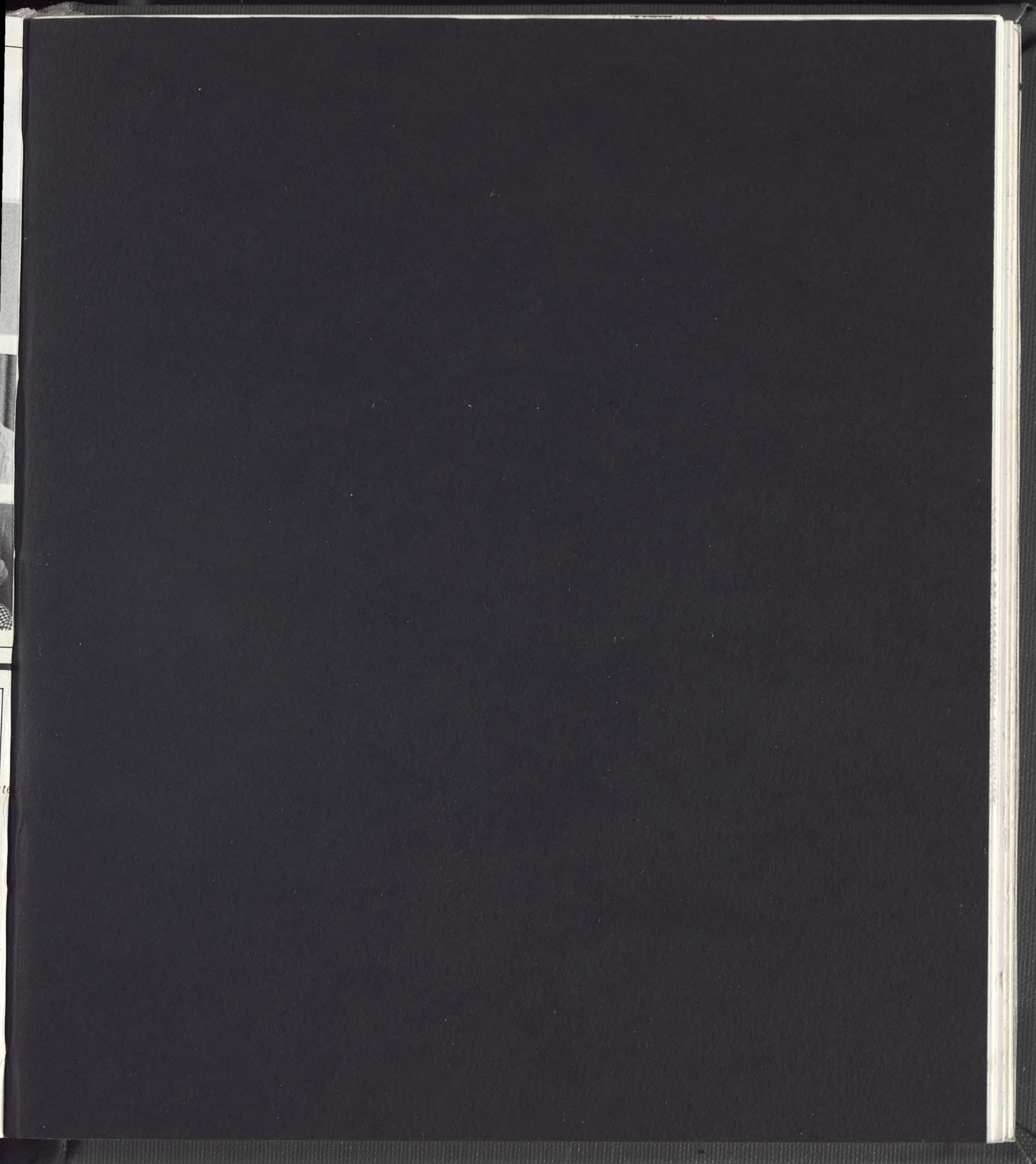
Deen Getz, Graphic Art



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