

Fall 1976

Focal Spot, Fall 1976

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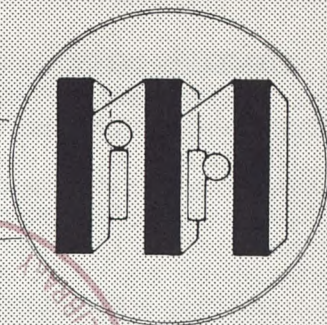
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FOCAL SPOT



A NEWSLETTER OF MALLINCKRODT INSTITUTE OF RADIOLOGY

VOLUME VI

FALL 1976

NUMBER 16

Radiology Pioneers



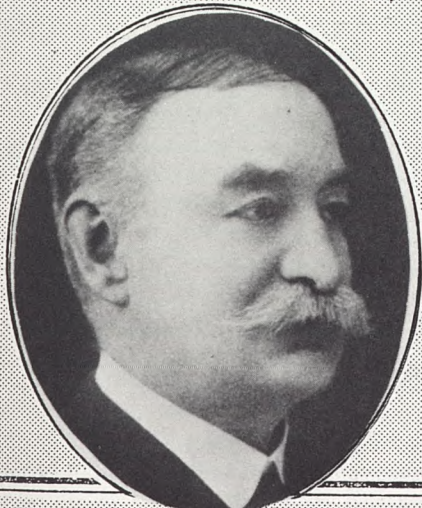
Sir William Crookes (1832-1919)



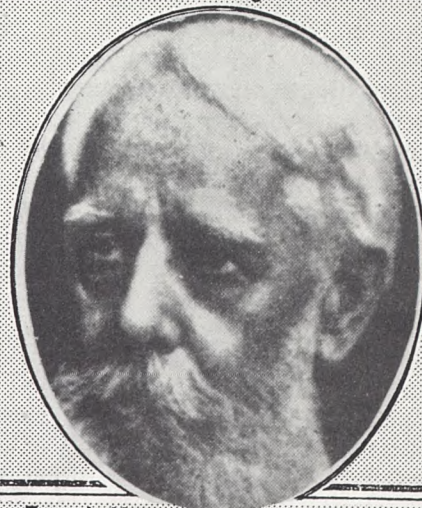
Godfrey Newbold Hounsfield, F.R.S.



Wilhelm Conrad Roentgen (1845-1923)



Thomas Morgan Rotch (1849-1914)



Francis Henry Williams (1852-1936)

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EDITOR'S NOTE:

In this issue we are presenting a series of brief profiles called "Radiology Pioneers". This was, we thought, a fitting way to observe our country's 200th birthday — commemorating some of the people who contributed to the development of radiology. Their spirit provides encouragement to our physicians and scientists as they approach the frontiers which sometimes bring rewards to us all. Assisting in the preparation of the article was Dr. William Murphy.

RADIOLOGY PIONEERS

SIR WILLIAM CROOKES (1832-1919)

Many men provided foundation stones for Roentgen's discovery of Xray, and foremost among them was an imaginative British physicist, Sir William Crookes. His researches concerning electricity led to the development of a cathode ray tube widely known as the Crookes tube. With this device Roentgen accidentally discovered the Xray.

WILHELM CONRAD ROENTGEN (1845-1923)

On March 27, 1845, Charlotte Constanze Roentgen, wife of Friedrich Conrad Roentgen, a textile merchant living in Lennep in the German Rhineland, had a son. Fifty years later on November 8, 1895, this son, Wilhelm Conrad Roentgen, discovered "A New Kind of Ray" and made a fundamental contribution to science.

From this rather ordinary background, the quiet genius of Wilhelm Roentgen arose. At age 23, he obtained his Ph.D. at the Zurich Polytechnic and at the time of his famous discovery, Dr. Roentgen was Professor of Experimental Physics at Wurzburg (Germany) University. In January, 1872, Roentgen was married to Anna Bertha Ludwig. They had no children but adopted a daughter.

During 1895, Roentgen found his entire attention captivated by cathode rays. He discovered the Xray accidentally. While evaluating the Crookes tube in a completely enclosed opaque box, he noted a glowing plate across the room and realized that a mysterious ray must be penetrating the walls of the opaque box. Conceiving an experiment for which his wife was the subject, at his instruction, she placed her hand on a cassette loaded with a photographic plate, upon which he directed rays from his tube for fifteen minutes. On the developed plate, the bones of the hand appeared light within the darker shadow of the surrounding flesh; two rings on her finger had almost stopped the rays and were clearly visible. Once convinced that his observations were based upon sound experimentation, Roentgen realized that early publication of his findings was essential.

A true disciple of science, he believed that discoveries belong to all mankind. Although he rapidly tested the properties of Xrays his basic early results and interpretations have never been significantly improved. At a time when there seemed to be little more to be discovered in physical science, the discovery of roentgen rays stimulated physicists of the late nineties into feverish activity.

The highest honor which can be bestowed on any scientist was awarded to Roentgen in 1901. He was the first man ever to receive the Nobel Prize for Physics. He refused to patent any part of his discovery and rejected all commercial offers.

During the post World War I inflation he lost all his savings and in the last years of his life, Roentgen suffered financial and other deprivations. He died of cancer in 1923, four years after his wife's death. But the enthusiasm that hailed the use of roentgen rays from the publication of Roentgen's first communication has never abated.

THOMAS MORGAN ROTCH (1849-1914)

When Roentgen announced the discovery of the Xray to the world in January, 1896, pediatrics was a frail, struggling infant of doubtful prognosis. At the turn of the century, less than 50 medical practitioners in this country took a special interest in pediatrics.

The first Xray department in America, organized exclusively for the use of infants and children, was established in the Boston Children's Hospital in 1899. Organizing and directing roentgenology at the hospital during its early stage was Dr. Thomas Morgan Rotch. In 1907 he wrote, "The Roentgen method assists, corrects, and controls otherwise faulty diagnosis." In Boston, the most substantial early benefits from pediatric roentgenology appear to have derived from congenital dislocation of the hip.

Rotch, the first pediatric radiologist, was at least two decades ahead of his colleagues in other clinics, most of whom would be without adequate roentgenologic service for twenty to thirty years.

FRANCIS HENRY WILLIAMS (1852-1936)

Radiology came a long way during the 12 months after Roentgen noticed the glowing screen on November 8, 1895. A search of medical literature reveals

that no one in the U.S. or Canada during 1896 ranked with Boston's Francis Henry Williams.

Graduating from Massachusetts Institute of Technology before taking his medical degree, he applied what was to become one of the hallmarks of his diagnostic approach; a thorough study of the normal, and then a comparison of the pathological.

Physical experimentation prior to clinical trial became a standard Williams' procedure. After familiarizing himself with the effects of rays on isolated organic substances, Williams went on to a radiological study of their appearance in normal human anatomy and physiology — a necessary prelude to the study of radiological pathology. He introduced statistics into radiology and stressed bilateral examination as a means of comparing normal with diseased tissue.

Dr. Williams did much of the early exploration with radio-opaque material in the gastro-intestinal tract. In his book, "The Roentgen Rays in Medicine and Surgery", which appeared in 1901, Dr. Williams reported his gastro-intestinal investigations and also presented a great deal of material on his experience with chest fluoroscopy. Williams stated, "By Xray examinations of the chest, we gain assistance in recognizing a density greater than normal in tubercu-

SUMMARY

Our survey shows how the Xray trail was blazed by illustrious pioneers, who often had to overcome experimental handicaps. The path of scientific progress which led the twentieth century to the revolutionary frontier of computed tomography exhibits an ever forward movement from which we hope all nations can benefit alike.

DR. CARLOS PEREZ NAMED DIRECTOR OF RADIATION ONCOLOGY

Carlos A. Perez, M.D., Professor of Radiology, was named Director of the Division of Radiation Oncology at Mallinckrodt Institute of Radiology, effective July 1, 1976. Dr. Perez replaces Dr. William E. Powers, who will become the Research Professor of Radiation Therapy at Thomas Jefferson University in Philadelphia.

A native of Columbia, South America, he received his M.D. degree from the Universidad de Antioquia Medical School in Medellin, Colombia. He served his



residency in radiology at the Mallinckrodt Institute of Radiology and was a fellow in radiotherapy at M.D. Anderson Hospital and Tumor Institute in Houston for one year. He has been on the staff of Washington University since 1964 and was named professor of radiology in 1972.

By his breadth of radiological experience, precision of observation, and clarity of expression, Dr. Williams was the first to bring to radiology the full range of skills which now characterize it, and can therefore properly be cited as "America's first scientific radiologist."

GODFREY NEWBOLD HOUNSFIELD F.R.S.

The announcement of Godfrey Hounsfield's invention (the EMI brain computed tomography scanner) in 1972 is now considered a date marking a revolution in medical diagnosis. EMI Corporation and computer scientist, Mr. Hounsfield, have now developed equipment that scans all areas of the body with remarkable accuracy and precision. Honored with numerous awards, Mr. Hounsfield was presented the MacRobert Award (the "Nobel Prize of Engineering") by HRH Prince Philip and was recently named a Fellow of the Royal Society, Britain's highest honor.

Dr. Perez is a Fellow in the American College of Radiology. He is chairman of the Radiation Therapy Oncology Group's Task Force on Cancer of the Lung; chairman of the Southeastern Cancer Study Group's Radiation Therapy Committee; and on the Advisory Committee of the Division of Cancer Treatment, National Cancer Institute, National Institute of Health.

DR. EVENS PRESIDENT-ELECT OF STATE SOCIETY

Dr. Ronald G. Evens, Elizabeth Mallinckrodt Professor and Director of Mallinckrodt Institute of Radiology, was elected President-Elect of the Missouri Radiological Society at the annual meeting held in Kansas City, Missouri on April 3, 1976.

The Missouri Radiological Society is the State Chapter of the American College of Radiology. The chapter represents radiologists throughout the entire state, and establishes and maintains the highest medical and ethical standards in the practice of radiology.

MALLINCKRODT INSTITUTE COMMEMORATES THE NATION'S BICENTENNIAL

Godfrey Newbold Hounsfield delivered the Fifth Annual Wendell G. Scott Lecture,, "Description of Computed Tomography and its Future." Winner of the Lasker Award, America's top scientific award, the British inventor of the revolutionary EMI brain and body scanner, spoke to an overflow audience on September 13, in the Scarpellino Auditorium of Mallinckrodt Institute. One of three institutes to receive the first whole body scanner, Mallinckrodt Institute has been privileged to play a role in the evaluation and clinical development of computed tomography.



DIAZ PROFESSIONAL EDUCATION LECTURESHIP

Jack Cullinan, R.T., F.A.S.R.T., will deliver the fourth annual Diaz Professional Education Lectureship at Mallinckrodt Institute. He will speak on "An Instructor's Approach to Tomography" at 8:00 p.m. Thursday, October 21, in Scarpellino Auditorium.

Mr. Cullinan, of Henrietta, New York, is Technical Associate of the Eastman Kodak Radiography Division. He was formerly the Chief Radiologic Technologist at Albert Einstein Medical Center in Philadelphia where he also served as Administrative Assistant for Technical Affairs in Radiology.

An active leader in state and national A.S.R.T. affairs, his numerous papers and articles constitute an outstanding contribution to radiologic technology. In 1973, he represented the American Society of Radiologic Technologists on the ACR Commission on Technologists Affairs-Special Procedures.

GRANT ENABLES CYCLOTRON PURCHASE

A five-year grant of just under \$3,000,000 from the National Heart and Lung Institute has enabled the purchase of a second cyclotron at Washington University School of Medicine, making it the only medical center in the world with two cyclotrons. Dr. Michel Ter-Pogossian, Professor of Radiology and Director of Mallinckrodt Institute's Division of Radiation Sciences, is the principal investigator.

The grant also provides support for the Institute's continuing research efforts with the application of cyclotron-produced isotopes in biology and medicine.

The first medical cyclotron in the U.S. was installed at Barnard Hospital in 1964. Barnard will also provide space for the installation of the second cyclotron which will be used in a cooperative manner by physicists, chemists, and physicians from such areas as radiology, neurosurgery, neurology, and medicine.

RADIOLOGY RESIDENTS, TRAINEES AND FELLOWS 1975-1976



Back row, left to right, Drs. Weyman, Herman, Moran, Chepey, Powers, Tievsky, Ellis, Gornish, Kolodziej, Huete. Second row, B. Davis, Nussbaum, Welch, Burrows, Jamshidnejad, K. Lee, Destouet, Biello. Seated, Drs. Blakely, J. Lee, Fuller, Chief Resident, Evens, Radiologist-in-Chief and Director of MIR, G. Davis, Co-Chief Resident, Scheible, Levitt.

1976 FIRST YEAR RESIDENTS AND

RESIDENTS

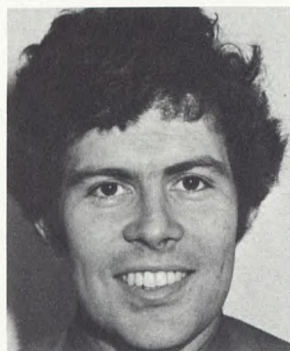


Dr. William A. Berkman is a Phi Beta Kappa and summa cum laude graduate of Washington University. He received his M.D. from Stanford University and did his medical internship at Jewish Hospital. A bachelor with many hobbies, Dr. Berkman enjoys tennis, canoeing, farming, antiques, photography, and camping.

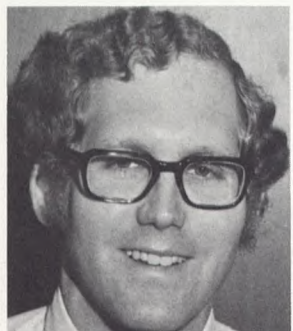
ting, photography, and camping.



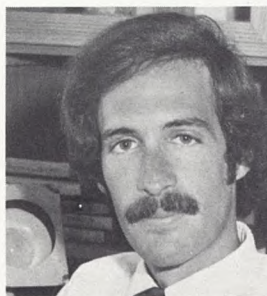
Dr. Kenneth H. Elson, Jr., holds a B.S. in Medicine and a M.D. from the University of Nebraska in his native state. He is a member of Alpha Omega Alpha and his multi-talented wife, Deborah, a journalism instructor, shares his enthusiasm for sports such as jogging and tennis.



Dr. Robert H. Choplin, from Kansas City, Missouri, is a graduate of Westminster College in Fulton, Missouri, and Northwestern University Medical School. He served his internship at Chicago Wesley Memorial Hospital and his residency in internal medicine at Barnes. For two years he was on active duty as a General Medical Reserve Officer at Blytheville AFB, Arkansas. An associate member of the American College of Physicians, Dr. Choplin's special interests include bicycling, fishing, and home redecorating. His wife, Ann Charlotte, is a teacher and interior decorator. They have a two year old son.



Dr. Robert Lenobel, a bachelor from St. Louis, attended Northwestern University and graduated summa cum laude from Washington University. A Phi Beta Kappa, he received his M.D. from the University of Missouri and served his medical internship at the University of Cincinnati, Cincinnati General and Veterans Hospitals. Dr. Lenobel's hobbies are camping and backpacking.



Dr. William B. Miller, Jr., a native of New York, completed his premedical education and received his M.D. from Northwestern University. A member of Alpha Omega Alpha, he served his internship in general surgery at Barnes. Dr. Miller is a bachelor who plays the accordion, enjoys oil painting and running and swimming.

JEWISH HOSPITAL AFFILIATED PROGRAM

Through the auspices of The Jewish Hospital Affiliated Program, two new residents will come to Mallinckrodt effective September 27.

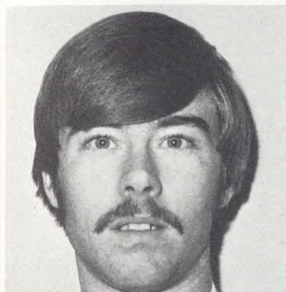
Dr. Harley J. Hammerman, 1st year resident, holds an A.B. in Psychology from Washington University where he graduated Phi Beta Kappa and summa cum laude. He obtained his M.D. from Washington Uni-

versity and interned at The Jewish Hospital of St. Louis.

From Oslo, Norway, Dr. Elisabeth Heibert served her first year's residency at The Jewish Hospital and comes to Mallinckrodt as a second year resident. She received her M.D. from the Medical School of the Royal College of Surgeons in Ireland.

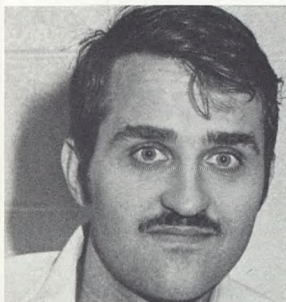
POSTGRADUATES PRESENT - A SCHOLARLY PROFILE

POSTGRADUATES



Dr. Avery Baron Brinkley, Jr., from Thomasville, Georgia, was a Phi Beta Kappa at Emory University in Atlanta where he was accepted to medical school with three years of work and graduated magna cum laude from Emory University School of Medicine. He is a member of Alpha

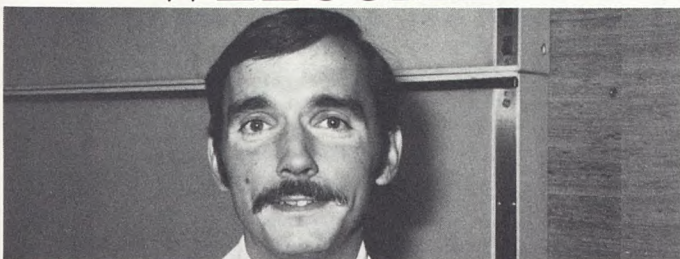
Omega Alpha, the National Honor Society and the American Federation of Musicians. Versatile, and a bachelor, Dr. Brinkley is also a professional drummer.



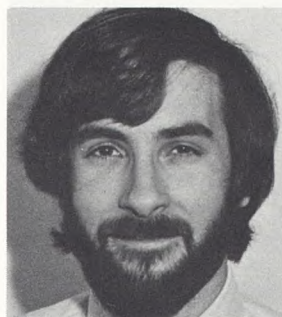
Dr. H. Fred Oakley was born in Wynnewood, Oklahoma, and received his B.S. from Oklahoma State University, during which time he was an exchange student for three semesters at Stuttgart University in Germany. An AOA graduate of Oklahoma University Medical School, Dr.

Oakley was, for two years, an officer in the World Health Organization and worked as an educational assistant to the Director of Education of Western Samoa. His hobbies are scuba diving, snorkeling, and chess. His wife, Edna, holds a master's degree in public health and is employed in the dietetic clinic of Barnes Hospital.

WELCOME



Dr. Robert E. Koehler joined the Institute's staff as an assistant professor of radiology in the section of abdominal roentgenology on September 1. Dr. Koehler came to St. Louis from San Francisco where he was on the staff at the University of California San Francisco.



Dr. Harvey S. Glazer was born in St. Louis and received his B.A. degree from Washington University from which he graduated summa cum laude and was elected to Phi Beta Kappa. A graduate of Washington University Medical School, Dr. Glazer was a St. Louis Metropolitan Danforth Fel-

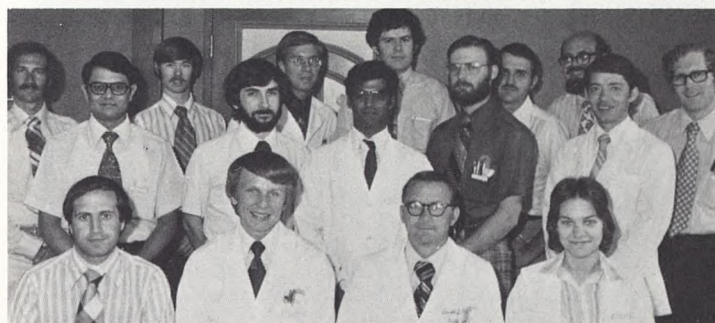
low. He is a nostalgia, trivia enthusiast and enjoys swimming and bicycling. His wife, Michelle, is a real estate agent and her hobbies are painting and racquetball. The Glazers and their 3 year old daughter, Kelly, reside in University City.



Dr. William G. Totty, from Nashville, Tennessee, graduated from David Lipscomb College in Nashville and served three years in the U.S. Army as an X-ray technologist before completing his M.D. at the University of Tennessee. He is a member of Alpha Omega Alpha. Photography is

the favorite hobby of Dr. Totty and his wife, Helen, and she also enjoys knitting and houseplants. The Tottys and their two daughters, Kathy, four, and Jenny, nine months, live in Des Peres.

At the Director's Luncheon



Back Row, left to right, Drs. Miller, Brinkley, Elson, Choplin, Oakley, Jones, Lenobel. Second row, Drs. Taylor, Glazer, Gukhool, Totty, Baglan. Seated, Drs. Berkman, Melson, Evens, and Miltzer.

"Retrospect"



Michael W. Brown 65-66



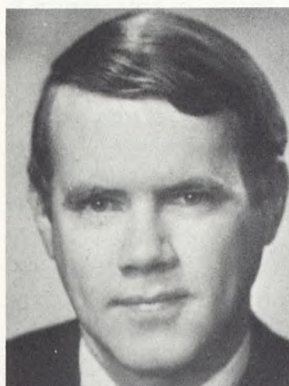
Richard T. Trackler, 66-67



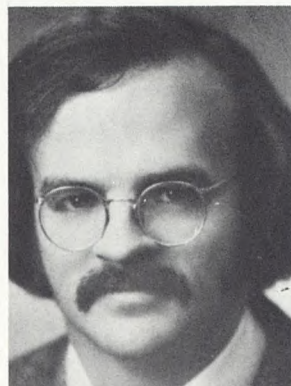
Charles H. Williams 67-68



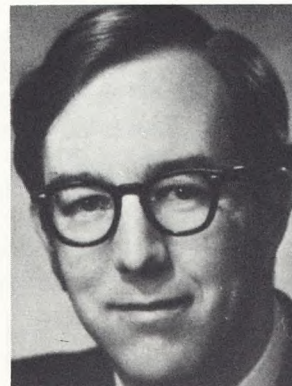
John Fenlon 68-69



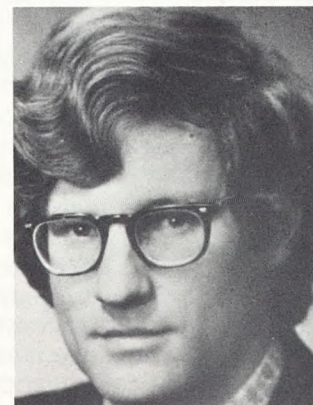
Marshall Colburn, Chief 72-73



Robert A. Francis,
Co-Chief, 72-73



Larry S. Anderson, Chief, 73-74



Robert T. Bramson,
Co-Chief, 73-74

"FIRST"

Who was the first **Woman** Resident and Chief Resident (61-64), and Trainee (NCI) in Radiation Therapy (64-66), at Mallinckrodt?



Dr. Lily A. Palmer-Hanes



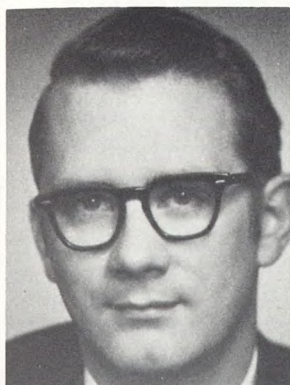
ENDORSED BY
SAINT LOUIS SPIRIT OF '76

"A Voice from the Past"

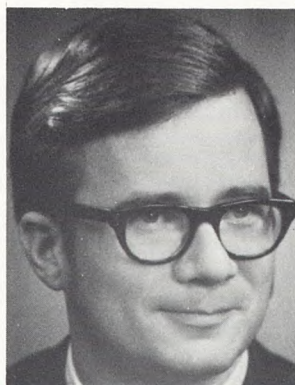
Our alumni questionnaire produced an interesting reply from Dr. Leander Malone (1929-1931). Following his residency at Barnes, Dr. Malone went to Terre Haute, Indiana where he is still in active practice. Describing himself as a country radiologist, he reports, "I have written a few papers and spent 40 years in Boy Scouts. I have two successful sons and have lived a full life. I consider Washington University and Mallinckrodt Institute (Dr. Sherwood Moore and Dr. Oscar Zink) the basis of what success I have attained."

Mallinckrodt Institute Resident Chiefs

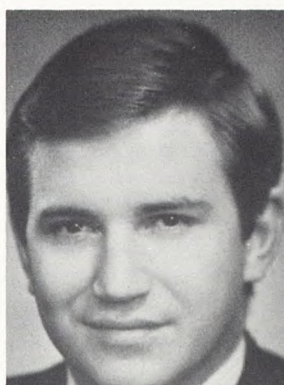
1965-1976



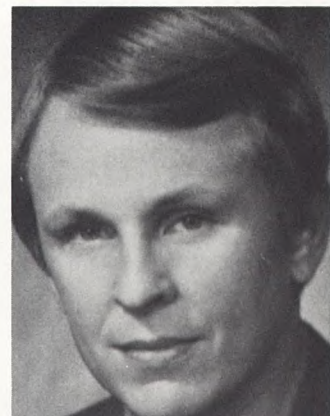
Ronald G. Evens 69-70



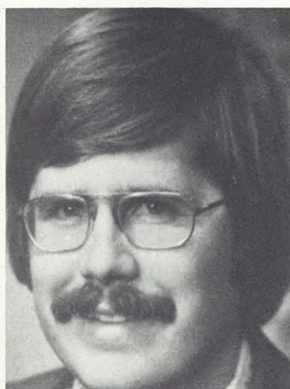
Richard Meidinger 70-71



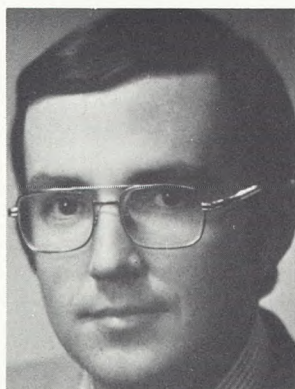
Gary D. Shackelford, Chief, 71-72



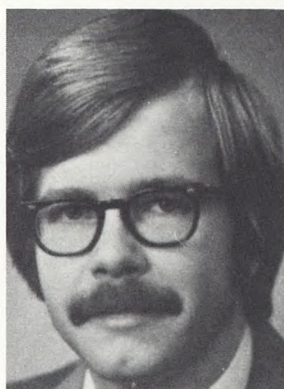
Leland Melson, Co-Chief 71-72



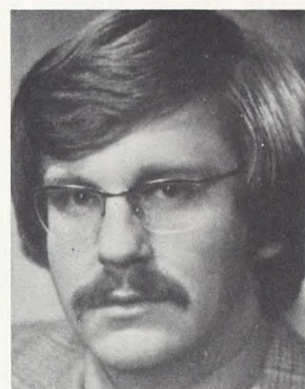
Robert F. Scheible, Chief, 74-75



R. Gilbert Jost, Co-Chief,
74-75



Thomas R. Fuller, Jr.,
Chief, 75-76



Gene L. Davis, Co-Chief, 75-76

Smiling Farewell

On the evening of June 19, Olin Hall Penthouse was the scene of a gathering of MIR staff members and residents and their spouses to celebrate the completion of residency training of the group of happy faces pictured below. Pictured on back row with Dr. Ronald Evens, second from left, are Drs. Richard Chepey, Thomas R. Fuller, Jr., Robert F. Scheible, and Bob Davis. Front row, left to right, Drs. Gene Davis, Robert Levitt, and Dennis M. Welch.



MIR Attracts West German Visitor

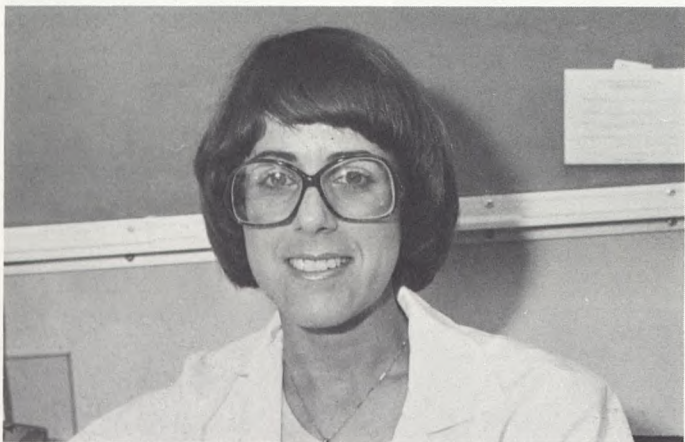


Dr. Ljiljana Rzehak visited Mallinckrodt Institute during August for a month's observation of neuroradiology and pediatric radiology. Charming and gracious as she improved her proficiency at speaking English, Dr. Rzehak from Saarbrücken, West Germany, utilized her non-working hours for sight-seeing, shopping, and dining at interesting St. Louis restaurants.

New Chief Residents A Good Combination



Dr. Daniel Robert Biello, Chief-Resident, was in high school in Cleveland, Ohio, when he decided to go into medicine. Working toward his A.B. at Ohio Wesleyan University he still found time to meet and win his wife, Elizabeth, and play baseball. An AOA



Dr. Marilyn J. Siegel, Co-Chief Resident, graduated from medical school at New York State University, served a pediatric internship in New York, and for the next four years, continued her medical career in St. Louis, Dallas, and Seattle, completing a pediatric residency and fellowship in pediatric oncology and a year of private practice in pediatrics.

Then came a complete "change of pace" from private practice to a residency in radiology at Mallinckrodt Institute in her hometown of St. Louis.

A vivacious, dynamic young woman, Dr. Siegel is an avid and enthusiastic traveler. In the past four

graduate of Case Western Reserve University Medical School, Dr. Biello came to Washington University for his internship and radiology residency.

Well-spoken and personable, Dr. Biello converses in a relaxed, friendly manner — quite a contrast to his fierce determination on the racquetball court. The life style of the Biellos is also relaxed. He is painting their house in Ballwin when the weather permits, and they both enjoy attending plays at the Loretto Hilton or the St. Louis "Pops" concerts. Once a year the Biellos visit Elizabeth's family at Lake George, north of Albany, New York, where in addition to the usual resort activities, they roast a suckling pig as an annual ritual!

Formerly a high school English teacher, Elizabeth now takes care of their 3½ year old son, David Daniel, and is working toward a Master's Degree in Education at UMSL.

From all reports she and Dr. Biello did a great job of organizing the Residents' Picnic at Pioneer Park. Plenty of food, fun, and fellowship!

years she has traveled to Israel, South America, Central America, Hawaii, France, and the Orient, which she found the most strenuous sightseeing but as a different culture, the most exciting. She has visited all the states in the U.S. except Alaska, which is included on next year's agenda. Not content with the usual tourist haunts, Dr. Siegel likes to go up into the "hinterlands" of a country, get to know the native people, and ferret out the byways rather than the highways.

In off hours, Dr. Siegel enjoys her Barclay House apartment where she indulges her epicurean talents of preparing gourmet French and Italian dishes, particularly the flaming creperie variety. Not content with her expertise, she has taken courses in Japanese and Chinese cooking, even acquired a "Wok."

Even though interested in outside sports as a participant and an observer, Dr. Siegel manages to remain dedicated to her medical specialty and find time to keep up with the current radiology literature. The other interest which may not be ascertained by observing her petite size is an avid gusto for ice cream especially if it includes a visit to Swensens!

How did Marilyn Siegel get into medicine? In contrast to those who pursue their childhood dream of becoming a physician, it all started when a friend commented, "Marilyn, you have all the requirements — why not give it a try?"

ADVERTISING WOMEN SUPPORT MAMMOGRAPHY SERVICES

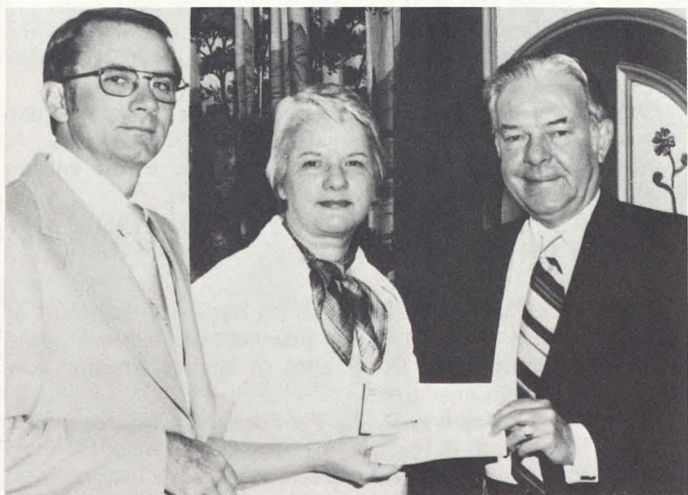
The Advertising Women of St. Louis has presented \$16,500 in proceeds from their 42nd annual Gridiron show to Mallinckrodt Institute at Barnard Free Skin and Cancer Hospital for a highly sophisticated breast cancer detection machine.

The money, along with last year's donation of \$12,000, made possible the purchase of the \$50,000 Mammomat, which detects breast cancers as small as a pencil point. To commemorate this donation, Mallinckrodt Institute installed a bronze plaque at the entrance to the mammography room.

DIAGNOSTIC MAMMOGRAPHY ROOM

SUPPORTED BY THE ADVERTISING WOMEN OF ST. LOUIS

Dr. Ronald G. Evens, Elizabeth Mallinckrodt Professor and head of the Department of Radiology at the Washington University School of Medicine and radiologist-in-chief at Barnes and Children's Hospitals, explained improvements the machine offers. He said its vacuum container uses specially sensitive x-ray



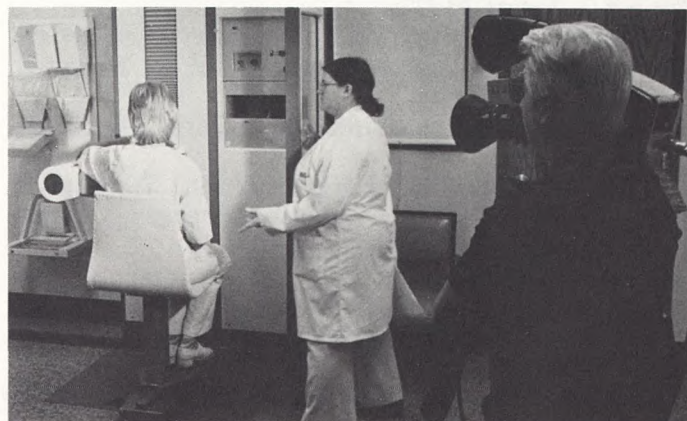
Mrs. Marjorie Longo, President of the Advertising Women of St. Louis, presents check for \$16,500 to Dr. Ronald G. Evens, Director of Mallinckrodt Institute (at left) and Norfleet H. Rand, Chairman of the Board of Barnard Free Skin and Cancer Hospital.

film requiring less exposure and therefore less radiation, allowing more frequent testing of women with cancer in their family backgrounds and/or those who have had cancer in other parts of the body. The machine is also designed to test wheel chair or bedridden patients. One of only five machines in the country, it makes the facilities at Barnard some of the most advanced in the country, Dr. Evens said.

Since 1945, the Advertising Women have donated \$351,000 to cancer research. Through proceeds from the 1948 Gridiron, Barnard Hospital was able to introduce and make available in the St. Louis area, the famed Papanicolaou method ("Pap" test), a simple means of early detection of cancer in women. This year's donation to cancer research brings the organization's total to \$367,000.



Dr. Evens, in a series of interviews by television stations, KSD, KMOX, and KTVI, explained improvements offered by the sophisticated X-ray machine and mammography's role in breast cancer detection.



Televised mammography procedure demonstration by Connie Huesgen, R.T., seated, and Judy Cortner, R.T., Assistant Supervisor.

CONTINUING EDUCATION

CONTINUING EDUCATION IN RADIOLOGY

The Mallinckrodt Institute of Radiology
Washington University Medical Center
presents

CLINICAL COMPUTED TOMOGRAPHY

Robert J. Stanley, M.D., Stuart S. Sagel, M.D. and
Mokhtar Gado, M.D., Program Chairmen



Design By Ann Ter-Pogossian

This is a comprehensive, 2½ day, 15 hour course on computed tomography of the entire body designed for the practicing radiologist. The current state of the art of the clinical applications of this diagnostic modality will be discussed in detail. Techniques, equipment comparisons, radiation therapy applications and comparisons with other diagnostic studies also will be presented.

A distinguished guest faculty will join the staff from the Mallinckrodt Institute of Radiology to share their expertise in the utilization of computed tomography. Panel discussions will be provided to answer specific questions from the conference attendees.

This course is approved for 15 hours of Category 1 credit by the AMA, and will begin Friday morning, October 29, 1976 at 8:30 a.m. and adjourn by noon on Sunday, October 31, 1976. It will be held at the Chase-Park Plaza Hotel in St. Louis.

Registration Fee:

\$225.00, payable with application
Registration will be limited to 300
Fees include enrollment, luncheons,
refreshment breaks, and instructional
materials.

Cancellation will be accepted up to
October 22, 1976, but will be
subject to a \$25 fee for meals
and administrative costs.

Accommodations:

Chase-Park Plaza Hotel
Kingshighway Boulevard
St. Louis, Missouri
Please process your registration
for accommodations directly with
the hotel.
Make checks payable to:
Washington University

*Please mail check to Ms. Nancy Levitt,
Mallinckrodt Institute of Radiology,
510 S. Kingshighway Boulevard,
St. Louis, Missouri 63110*

REFRESHER COURSES AT R.S.N.A., NOVEMBER 14-19, 1976

"Cerebral Angiography," Mokhtar Gado, M.D.

"Economic Aspects of Computed Tomography,"

Ronald G. Evens, M.D.

"Whole-Body Computed Tomography: Anatomical Considerations," Robert J. Stanley, M.D., Stuart S. Sagel, M.D.

"Radionuclide Brain Imaging," Barry A. Siegel, M.D.

"Practical Detection, Evaluation, and Elimination of Localization Error in Radiation Therapy," James E. Marks, M.D., Arthur G. Haus.

R.S.N.A. EXHIBITS

"Venous Angiography of Hemodialysis Fistulas — Experience with 72 Studies" by Drs. Louis A. Gilula, Tom W. Staple, and Charles B. Anderson.

"The PA Wrist View: Key to Complex Carpal Trauma." Louis A. Gilula, M.D.

At the R.S.N.A. November 14-19, 1976, Dr. William A. Murphy will present a paper co-authored by Dr. Katherine DeSchryver-Kecskemeti entitled "Isolated Clustered Microcalcifications in the Breast: Radiologic-Pathologic Correlation." This will also be presented as an exhibit.

An exhibit co-authored by Drs. William A. Murphy and Marilyn J. Siegel and entitled "Elbow Fat Pads: New Signs and Extended Differential Diagnosis" will be presented at the Roentgen Ray Society Meeting in Washington, D.C. September 21-24 and also at the R.S.N.A.

"Nondestructive Subluxing Arthropathies of the Metacarpophalangeal Joints," an exhibit by Drs. William A. Murphy, David H. Bartlett, and Ronald G. Evens will be presented at the Roentgen Ray Society Meeting.

ABSTRACTS SUBMITTED BY RADIATION ONCOLOGY PHYSICS SECTION

Luszczynski, K. and Glasgow, G. P.: Radiation Exposure of Airport Workers at the St. Louis International Airport, given at the 4th International Conference of Medical Physics, July 25-30, in Ottawa, Canada.

Purdy, J. A., Velkley, D. E., Ter-Pogossian, M.: Computer Assisted Tomograph in Radiation Therapy Treatment Planning — Effect of Inhomogeneities, given at the 4th International Conference of Medical Physics, July 25-30, 1976, Ottawa, Canada.

Ragan, D., Marks, J., Purdy, J. A., Perez, C., Ter-Pogossian, M.: Evaluation of Computerized Treatment Planning Utilizing Computer-Assisted Tomography, given at the 4th International Conference of Medical Physics, July 25-30, 1976, in Ottawa, Canada.

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

Return address:

fold

Place 10¢
Stamp
Here

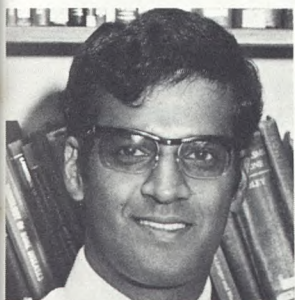
Ronald G. Evens, M.D.
Director
Mallinckrodt Institute of Radiology
510 S. Kingshighway
St. Louis, Missouri 63110

fold

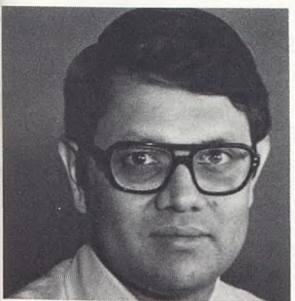
FOCUS ON NEW FACES



Dr. Gaellan McIlmoyle, born in Canada, has joined the staff of Nuclear Medicine as an Assistant Professor, following four years of training in radiology at the Toronto General Hospital and two years of training in nuclear training at Peter Bent Brigham and Children's Hospital in Boston. A member of the Society of Nuclear Medicine, Dr. McIlmoyle's special interest is pediatric nuclear medicine. She drives a Volkswagen named "Murgatroyd" and her outside hospital life is organized by a flock of bluejays, two cardinals, a rabbit who visits at intervals, and a parakeet who did not vacate the apartment when the last owner moved.



Dr. Premllal Gukhool, Instructor in Radiology, was born on the island of Mauritius off the east coast of Madagascar. He received his bachelor's degree from Glasgow University in Scotland. He completed three years of diagnostic radiology training at Morristown Memorial Hospital in New Jersey before coming to St. Louis with his wife, Judith Anne, and one year old son, Jason Alain. Dr. Gukhool's hobbies are tennis, swimming, photography, and "tinkering."



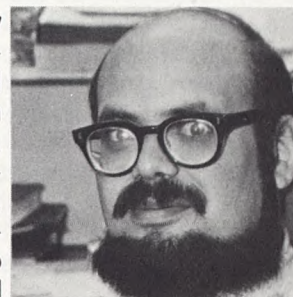
Dr. Chandrakant C. Taylor comes to MIR as a Fellow in Diagnostic Radiology. Born in India, Dr. Taylor attended high school in Kenya under the auspices of Cambridge University and medical school in Baroda, India. He came to the U.S. to Hackensack, New Jersey for his internship and residency training. Dr. Taylor is an avid photographer and his wife, Aruna, enjoys knitting, embroidering, ceramics, and cooking. They have a two year old daughter, Rajeen.



Dr. Philip R. Shalen comes to Mallinckrodt as a Fellow in Radiology (Neuroradiology). He received his B.A. in Biology from Alfred University in Upstate New York and his M.D. from New York Medical College in New York City. He served his surgical internship at New York Medical College Affiliated Hospitals and his residency at University of Minnesota Affiliated Hospitals. During three years of military service Dr. Shalen was assigned to Second General Hospital in Landstuhl, Germany.



Dr. H. Lynn Magill joins the Institute as a Fellow in Pediatric Radiology. A native of Illinois, Dr. Magill completed his premedical education and M.D. at Northwestern University. He served his internship at Michael Reese Hospital in Chicago and his residency at the U.S. Air Force Hospital, Lackland Air Force Base in San Antonio. Currently on active duty with the U.S. Air Force, Major Magill has a military sponsored fellowship to Mallinckrodt in order to gain additional training and experience in roentgenology. Having a private pilot's license doesn't insure his getting an opportunity to fly so for now he substitutes his second favorite hobby of gardening! Mrs. Magill (Nancy Jane) is an elementary education teacher and their two sons are Aaron, five years old, and Daniel, three. The Magills reside in Crestwood.



Dr. Stuart A. Jones, Fellow in Nuclear Medicine, is a native of New York City and chose Brown University in Providence, R.I. for his A.B. and M.M. Sc. degrees and received his M.D. from Harvard. A versatile bachelor, his hobbies are computers and audio equipment (megastereo) and most varieties of music. Dr. Jones' previous research specialty was Candida Serology.

THE DIRECTOR'S OFFICE REPORTS:

PROMOTIONS

Dr. Mokhtar H. Gado to the rank of Professor of Radiology, effective July 1, 1976.

Dr. Frederick A. Valeriote to the rank of Professor of Cancer Biology in Radiology, effective July 1, 1976.

Dr. Hsiu-san Lin to the rank of Associate Professor of Cancer Biology in Radiology, effective July 1, 1976.

Dr. Carleton C. Stewart to the rank of Associate Professor of Cancer Biology in Radiology, effective July 1, 1976.

Dr. Adel G. Mattar to the rank of Assistant Professor of Radiology, effective July 1, 1976.

Dr. Michael A. Mikhael to the rank of Assistant Professor of Radiology, effective July 1, 1976.

Dr. William A. Murphy, Jr. to the rank of Assistant Professor of Radiology, effective July 1, 1976.

NEW STAFF

Dr. Cary A. Presant has been appointed to the staff of the Radiation Oncology Division as an assistant professor of radiology.

Dr. Gary Omell joined the staff of the Mallinckrodt Institute as an instructor in clinical radiology, effective July 1, 1976.

Dr. Thomas Fuller (chief resident 1975-76) completed a diagnostic radiology residency at MIR and will obtain an additional year of experience as an instructor in radiology in the Institute's division of neuroradiology.

Dr. W. Bob Davis completed his residency in diagnostic radiology at the Institute and has remained on the staff as an instructor in radiology for an additional year of experience.

Dr. Robert Levitt completed a residency in diagnostic radiology at MIR and has remained on the staff as an instructor in radiology in the chest section of the Institute, effective July 1, 1976.

Dr. Frederick G. Abrath, Dr. Walter J. Kopecky, and **Dr. David Thomasson** have been appointed postdoctoral fellows in radiation physics in the Division of Radiation Oncology.

Ms. Linda C. Knight joined the nuclear medicine staff as a research associate on August 16, 1976.

Ms. Joanne E. Schott joined the Division of Radiation Sciences as a research associate on May 1, 1976.

Mr. Nizar Mullani is a research associate in the Radiation Science Division, effective July 1, 1976.

OFF STAFF

Dr. John Harwig has joined the staff of the University of Southern California in Los Angeles as an assistant professor of radiopharmacology in the School of Pharmacology.

Ms. Sylvia Harwig has a position in the Division of Nuclear Medicine, Department of Radiology, UCLA.

Dr. Robert F. Scheible (chief resident 1974-75) joined the radiology staff at Missouri Baptist Hospital on July 1, 1976. He has also been appointed as an instructor in clinical radiology at the Mallinckrodt Institute and will have teaching responsibilities to residents and medical students.

Dr. Frank Kolodziej is a member of the radiology staff at the Puerto Rico Medical Center in Rio Piedras and an assistant professor (neuroradiology) at the University of Puerto Rico in San Juan, following one year of specialized training in neuroradiology at MIR completed June 30, 1976.

Dr. Paul P. Busse completed one year of training at MIR as a third year resident on June 30, 1976, and then joined the Ernst Radiologic Clinic, a private practice radiology group in St. Louis, to do general radiology at St. Joseph Hospital in Kirkwood and DePaul Hospitals.

Dr. Eui Shin Kim completed a one-year fellowship in nuclear medicine at the Institute and on July 1, 1976 joined the staff of the University of Kentucky Medical Center in Lexington as an assistant professor in the Division of Nuclear Medicine.

Dr. Dennis M. Welch completed a four-year training program in nuclear medicine and diagnostic radiology at MIR, and on July 1, 1976 began a two-year tour of duty as a Major in the U.S. Air Force. During this time he will be stationed at Andrews Air Force Base in Maryland as director of nuclear medicine at the Malcolm Grow Medical Center.

Dr. Richard Philip Chepey entered private practice with a ten-member radiology group in Corpus Christy, Texas on July 1, 1976, after completing a three-year residency in diagnostic radiology at the Mallinckrodt Institute. His brother, **Dr. Julius J. Chepey**, is also a member of that group.

Dr. Helene Z. Hill (1973-1976) is an associate professor in the department of biochemistry and cell biology at the new Marshall University Medical School in Huntington, West Virginia.

WHAT'S UP, DOC?

HONORED

Dr. T. K. Youssef, a member of the Mallinckrodt Institute clinical staff, recently became a fellow of the Royal College of Physicians and Surgeons of Canada.

James A. Purdy, Ph.D., has been elected President-elect of the Missouri Valley Chapter of the American Association of Physicists in Medicine and appointed to the Radiation Therapy Committee of the Association.

Glenn P. Glasgow, Ph.D., Division of Radiation Oncology, attended a conference March 12-13, 1976 at the University of Wisconsin, in Madison, on "Quality Control in Diagnostic Radiology."

"X-Ray Interpretation in the Emergency Department" will be presented by **Dr. Louis A. Gilula** as a guest lecturer at the meeting of the Minnesota Chapter of the American College of Emergency Physicians on September 24 and to the Texas Chapter of the American College of Emergency Physicians, November 8, 1976.

OFF STAFF

Dr. Donald Velkley (1973-1976) is now a member of the staff in the Division of Physics, Department of Radiology, The Milton S. Hershey Medical Center, Hershey, Pennsylvania.

Dr. Madhukar Thakur spent a sabbatical year in the Division of Radiation Sciences at the Mallinckrodt Institute and has returned to the Hammersmith Hospital in England to continue his work on Indium-113 labeled compounds.

Dr. Bharath Kumar joined a group practice in Washington, D.C. in July 1976, and also serves as director of the Nuclear Medicine Division at Howard University Hospital for this group.

Dr. Gene Davis (co-chief resident 1975-76) entered private practice radiology with the Christian Northwest Hospital Group in St. Louis after completing three years of training in diagnostic radiology at MIR in June 1976.

Ms. Maria Straatmann resigned from her position as research associate in the Institute's Division of Radiation Sciences and will be employed as an associate research scientist at Medi-Physics, Inc. in Emeryville, California.

DR. TER-POGOSSIAN RECEIVES AWARD- DELIVERS ADDRESS

Dr. Michel Ter-Pogossian was presented the distinguished Paul C. Aebersold Award for 1976 at the annual meeting of The Society of Nuclear Medicine in Dallas, Texas, June 8-11. In attendance were 4500 physicians, scientists, and technologists. He also delivered the keynote address "Perspectives in Computed Tomography" to an overflow audience at the opening session of the meeting held in the Dallas Convention Center.

Physicist and nuclear scientist, Dr. Ter-Pogossian has brought about new and significant developments in research as a result of his Positron Emission Transverse Tomography system developed at Mallinckrodt Institute and which utilizes emission data obtained from injected radio-pharmaceuticals as opposed to the x-ray transmission data of Computed Axial Tomography. The promise of the positron approach is that it generates data regarding the function of an organ in contrast to organ structure data provided by x-ray CAT scanning.

Dr. Subhash C. Sharma was awarded an ACR fellowship to attend and participate in "Heavy Particles in Therapy Part II Conference" at Berkeley, California, September 14-17.

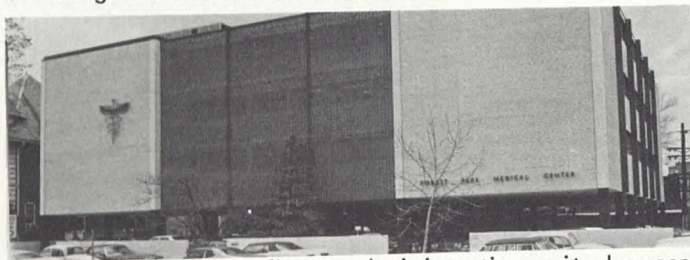
Dr. Hsiu-san Lin, Associate Professor of Cancer Biology in Radiology and Assistant Professor of Microbiology and Immunology, has been awarded a research grant totaling \$191,996 over the next 3 years from the Heart and Lung Institute, NIH. The grant is for studying the proliferation and differentiation of alveolar macrophages.

Dr. Michel M. Ter-Pogossian was a guest lecturer on computed tomography at the 75th Anniversary meeting of the Dutch Radiological Society, June 12-19 in the Hague, the Netherlands.

Dr. Lily A. Palmer-Hanes, Assistant Professor of Radiology in MIR's Division of Radiation Oncology, has been elected Chairman of the Professional Education Committee of the St. Louis City and County Unit, American Cancer Society.

A VISIT TO RADIATION ONCOLOGY'S NEW FACILITIES

The Division of Radiation Oncology has recently expanded its administrative, clinical and research facilities to include some 13,000 square feet of renovated space in the Forest Park Medical Center building at 4511 Forest Park Blvd.



The new fourth floor administrative suite houses administrative personnel from the Sections of Clinical Oncology, Cancer Biology, and Computer Services, as well as the General Administration for the Division.



Adjoining the administrative area are communications facilities, including a duplicating room and the Division Library. Two spacious fourth floor labs with



adjoining offices will be devoted to studies of macrophage function, immunoreactivity, and endocrinology.



The Follow-up Clinic on the third floor serves the more than 100 patients seen weekly for post-therapy examinations. Nearby are the computer facilities and a large record storage room. Offices for clinical staff, and residents, a secretarial area, the Physics Section



and a small conference room are located on the third floor as well as the Illustration/Audiovisual area (soon to be completed).



Further remodeling plans for the Forest Park building include the construction of a 3500 square foot mouse breeding facility on the ground floor in the area now used for parking.

The physical separation of MIR and the Forest Park staff has proved to be no great inconvenience with the installation of a shuttle bus service in early May. The new Radiation Oncology van leaves one or the other location every 20 minutes, transporting both staff and patients.

The expansion of the Division to the Forest Park building has alleviated immediate space problems, has fostered greater cooperation between sections through the new proximity of section administrators. It also has provided "breathing room" essential for further growth.

FOCUS ON NEW FACES

Dr. Emily L. Militzer, Radiation Oncology Trainee, was born in Cape Girardeau, Missouri, and received her B.A. and M.D. degrees from the University of Missouri. A member of Phi Beta Kappa, Dr. Militzer's special interests range from the strenuous outdoor activities of hiking and backpacking to knitting, crocheting, and embroidery.



Linda Cunningham comes to the Nuclear Medicine Division as Purchasing Secretary, replacing Marie Entessar who has moved to Iran with her husband. Linda attended the University of Colorado and Washington University, majoring in sociology and journalism. Her interesting hobbies include play writing, community theater groups, piano, guitar, and building doll house furniture. (*As long as you're writing, Linda, we could sure use a one act for our Christmas party!*)



and her hobbies are sewing, ice skating, and gardening.

Pat Tisone, Medical Transcriptionist, a native of St. Louis, lived in Boulder, Colorado, for ten years and attended the University of Colorado for 2½ years. The medical scene is not a new one for Pat as her father is Dr. Lawrence O'Neal. She has nine year old twins, Tom and Bob,

Dr. Robert Baglan, a Trainee in Radiation Oncology, was born in Carrollton, Kentucky. A 1965 graduate of the University of Kentucky, Dr. Baglan received his Ph.D. from the University of California at Berkeley and held the position of assistant professor of Vanderbilt University for three years before going on to complete his M.D. at Washington University. He is a long distance runner and an avid tennis player, as is his wife, Nancy. She is a laboratory technician in the Biochemistry Department of Washington University.



The Baglans and their twin daughters, Julie and Kathy, age five, reside in University City.



Kathleen Trost, new Administrative Secretary, will be responsible for personnel activities related to payroll, employe benefits, parking, and personnel guidelines. Questions should be referred to her at phone extension 2851. Kathleen attended Meramec Junior College and Washington University and has worked four years at the Medical School in other positions. In off hours she enjoys ceramics which she shares as gifts for friends and through the encouragement of her brother, who is an avid tennis player, Kathleen is now taking tennis lessons. When questioned about her progress, Kathleen replied, "I need help!"

SUMMER FELLOWSHIP PROGRAM IN RADIATION ONCOLOGY



The enthusiastic response of the group for the summer clerkship program was reflected in a statement by Richard Sunderman of Vanderbilt University who described the program as an "optimal mixture of clinical experience and exposure to basic science."



Left to right, Robert Shermer, Robert Beaudry, Mary Anne Rudloff, David Dooley, Kirk Packo, Dr. Fransiska Lee, Coordinator, Paul Mitsch, Julia Wen, Tom Olsen, Jerry Mitchell, and Glen Reside.

Mallinckrodt Radiologic Technology

Welcome New Students



1st row, left to right, James Valenti, Thomas Hanson, Bruce Snider, Patricia Jones, Valeria Curry, Leota Whitfield, Rebecca Smith, Margaret Panella, Debbie Kelleher, Robert Grbac, Susan West. 2nd row, Kathy Laramore, Janelle Sabo, Janet

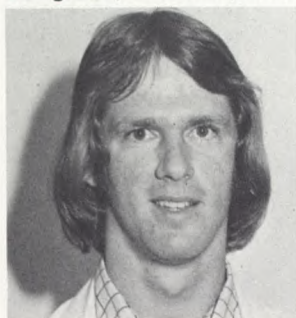
Wyatt, Kandis Sheffield, Deborah Hurley, Doug Robb, Joni Traudt. 3rd row, Matt Butler, Susan Sloan, Carol Wilcox, Kathleen Ruck, Cynthia Miller, Claire Gansloser, Alan Kahn, Mark Caldewell, Timothy Sokolich, Michael Reilly, Anthony Jackson, and Lennis Lich.

NUCLEAR MEDICINE:

JOIN TECHNOLOGY STAFF

Chuck Gugger, R.T.N.M., received his bachelor's degree from Blackburn College, Carlinville, Illinois. A bachelor, Chuck enjoys tennis and motorcycle riding.

Marilyn Jane Corrigan, R.T.N.M. received a B.A. from Columbia College and took her technology training at St. John's Mercy Medical Center. Marilyn and her husband, Dennis, have a 15 year old daughter, Melanie, and reside in Chesterfield.



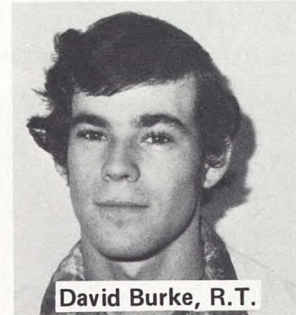
NUCLEAR MEDICINE POST GRADUATES



Left to right, Paul Hanson, R.T., St. Louis, Missouri; Vera Ford, R.T., from Austin, Texas; Cheryl Storr, R.T., Belleville, Illinois; Kathy Soria, B.S., Omaha, Nebraska; Michael Blackford, R.T., Joplin, Missouri.

SECOND X-RAY:

Jill Ross, R.T., comes to Mallinckrodt from her home state of Tennessee where she received her radiologic technology training at the Methodist Hospital in Memphis. Jill's family consists of her husband, Jim, a graduate student in Health Care Administration at Washington University, and Staci, their four year old daughter.



David Burke, R.T.

NEW RADIATION ONCOLOGY TECHNOLOGY STUDENTS



Left to right, John O'Donohue, R.T., Debra Zoeller, R.T., Claudia Tatum, R.T., Sheryl Augustin, R.T., Russell Gerber, R.T.

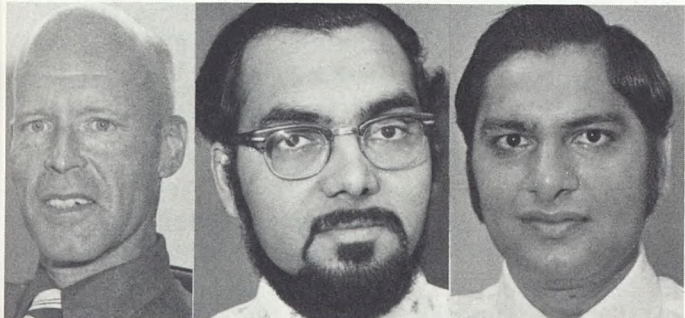
"News" From Radiation Oncology Physics Section

INSTRUCTORS IN RADIATION PHYSICS IN RADIOLOGY:

Hollace L. Cox, Jr., Ph.D., comes to Mallinckrodt from M. D. Anderson Hospital and Tumor Institute in Houston where he was a fellow in the pathology department for two years doing research in X-ray spectroscopy followed by a year in the medical physics training program. After receiving his Ph.D. in Chemical Physics from Indiana University, Dr. Cox worked on laser-related research at Texas Instruments, Inc. of Dallas and was a research associate in physics at Baylor University, Waco, Texas.

Satish C. Prasad, Ph.D., a native of India, came to the United States in 1966. He received his Ph.D. at the University of Massachusetts and was a postdoctoral fellow at the University of Rochester for two years. He studied medical physics at the University of Colorado Medical School.

Subhash C. Sharma, Ph.D., was born in India. He received his M.S. and Ph.D. degrees from the University of Nebraska where he also served four years as a research associate in radiation physics. Dr. Sharma recently completed a one year fellowship in medical physics at M.D. Anderson Hospital and Tumor Institute.



Hollace Cox, Ph.D. Satish Prasad, Ph.D. Subhash Sharma, Ph.D.

RADIATION ONCOLOGY GRADUATION - JUNE 25, 1976



After graduation Katy Lennon, R.T., left, took a technology position in Worcester, Mass.; Ethel Haydt, R.T., Wilkshaw, Pa.; Dorothy Meadows, R.T., Firmin Desloge, St. Louis; Mary Kleiber, R.T., MIR; Mary Jane Schultz, R.T., St. John's Mercy, St. Louis; and Sally Palazzolo, R.T., MIR.

CLINICAL PHYSICIST:

Myung C. Choi, M.S., from Korea, received his B.S. Degree in Engineering from the Inha Institute of Technology in Korea and his M.S. in Radiation Biophysics from the University of Kansas. His current interests at Mallinckrodt include the development of radiotherapy treatment planning, high energy dosimetry and improvements in radiotherapy techniques.

ASSISTANT CLINICAL PHYSICIST:

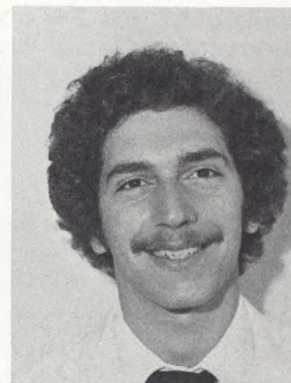
Bruce J. Gerbi, M.S., received his B.S. degree in Biology from the University of Pittsburgh and an M.S. in Medical Physics from the University's Graduate School of Public Health. At Mallinckrodt he plans to concentrate his efforts in the areas of radiotherapy techniques and dosimetry.

PROMOTION

Mr. Conrad Granda has been promoted to Supervisor, Radiation Therapy Maintenance.



Myung Choi, M.S.



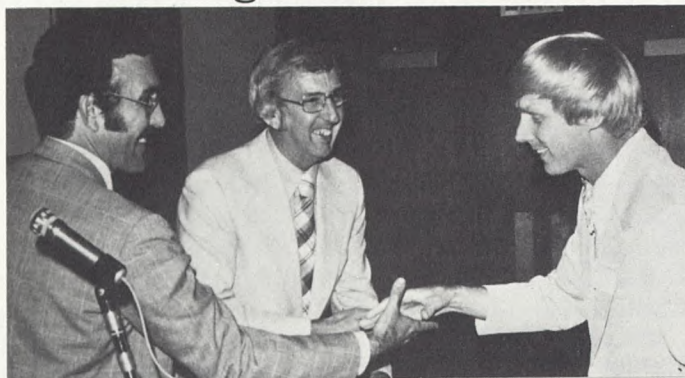
Bruce Gerbi, M.S.

"TELEVISION INTERVIEW"



James A. Purdy, Ph.D., Chief, Physics Section

Distinguished Alumnus



Congratulations are in order for Dr. Lance Lembeck who was presented the 1976 Distinguished Alumni Award from the College of Sciences at San Diego State University. A 1967 graduate of the university with a degree in chemistry, Dr. Lembeck has recently reconstructed their pre-medical committee consisting of fifteen faculty members. As a student, he was the undefeated heavyweight Boxing Champion for two years while receiving Varsity Athletic letters in football and swimming. He was captain of the Inter-fraternity basketball and volleyball teams and in 1961, Dr. Lembeck played spring ball for St. Louis Football Cardinal Coach, Dan Coryell, (then San Diego State football coach).

Dr. Lembeck was the first medical student to serve three years on the Admissions Committee of Washington University Medical School. Currently he is the youngest member of the Board of Governors of the University and the Alumni Association Executive Council. In May he was chairman of the medical school alumni reunion.

VISITING LECTURERS FOR CANCER BIOLOGY

Dr. J. E. Till, The Ontario Cancer Institute, Toronto, Canada "Regulation of Blood Cell Development"

Dr. Robert Klevecz, Department of Biology, City of Hope National Medical Center, Duarte, Calif. "Quantized Generation Times in Mammalian Cells"

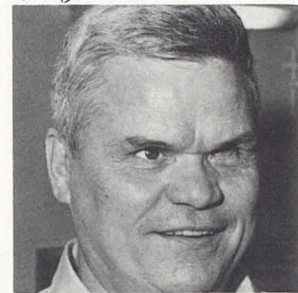
Dr. Sydney Salmon, Department of Hematology and Oncology, University of Arizona College of Medicine, Arizona Medical Center, Tucson, Arizona, Multiple Myeloma "Kinetics of Human Cancer" and "Strategy of Chemotherapy"

Dr. Robert Sutherland, Ontario Cancer Institute, Toronto, Canada, "Tumor Therapy Research Using Multicell Spheroid in Vitro Models"

Dr. Kurt Reismann, University of Kansas Medical Center, College of Health Sciences & Hospital, Kansas City, Kansas. "In Vivo and In Vitro Studies of Erythroid stem cells"

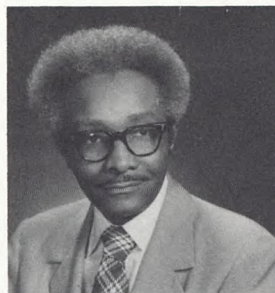
Dr. Jerrold Fried, Memorial Sloan-Kettering Cancer Center, New York, New York. "Mathematical Analysis of DNA Distributions from Flow Microfluorometry & Applications to the Study of Cell Cycle Kinetics."

Silver Anniversary for 25 Year Employees



Evelyn Clark and Harold Sang were among the 25-year employees who were honored at a Silver Anniversary reception at University House on June 19, 1976. Evelyn is a keypunch operator and Harold works as a darkroom technician.

In Memoriam



Howard B. Woods, editor and publisher of the St. Louis Sentinel newspaper, host of the Black Experience on KSD-TV, and President of the St. Louis Urban League Board of Directors died of a heart attack on August 2, 1976, in Boston, Massachusetts while attending the National Urban League Conference. He is survived by his wife, Jane Gamble Woods, and four daughters. Mrs. Woods is secretary to Dr. William McAlister of Mallinckrodt Institute where she has been employed for seven years.

Mr. Woods participated in a broad variety of government, civic, and welfare activities. In 1965 he was appointed by President Lyndon B. Johnson to serve as Associate Director of the U.S. Information Agency in Washington. Active in the life of his church, in 1970 he was awarded the Chritus Vivit Award from Concordia Seminary in St. Louis.

Well-spoken and a man of courage and firm principle, his life reflected care, concern and compassion for people everywhere. His associates from around the country and a score of personal friends deeply mourn the passing of Howard B. Woods.

In Memoriam

Loretta E. Spires, medical transcriptionist at Mallinckrodt Institute, died of cancer on June 6, 1976. Loretta was to have retired on June 30, 1976, after nine years of service. The Institute extends deepest sympathy to her husband, Gene Spires.

Letter of Appreciation

The following letter to Mr. Armand Diaz, Technical Administrator, testifies to the caliber of patient care and concern we are constantly striving toward in every area of Mallinckrodt Institute.

June 11, 1976

Dear Mr. Diaz;

Recently I was a patient at Jewish Hospital for tests. I came to Barnes Hospital for a E.M.I. Body Scanner administered by Mr. Tim Aly. Needless to say I was nervous but Mr. Aly explained the process and put me at ease. He came in periodically to tell me when they would continue. He also made sure I got a ride back to Jewish Hospital by the Van which was late in getting there.

I want you to know how courteous and humane he is and how very helpful he was to me.

Thank you.

Sincerely,

GOLDIE SALTZMAN (Mrs. Ralph)

P.S. Wish there were more like him.

CALENDAR

September 21-24, 1976

AMERICAN ROENTGEN RAY SOCIETY
Washington, D.C.

September 23-25, 1976

44th ANNUAL MEETING OF MISSOURI SOCIETY OF
RADIOLOGIC TECHNOLOGISTS
Osage House, Lake of the Ozarks

October 11, 1976

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

October 13-17, 1976

AMERICAN SOCIETY OF THERAPEUTIC RADIOLOGISTS
Atlanta, Georgia

October 21, 1976

FOURTH ANNUAL DIAZ PROFESSIONAL EDUCATION
LECTURESHIP
Scarpellino Auditorium, Mallinckrodt Institute, 8:00 P.M.

November 8, 1976

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

November 14-19, 1976

RADIOLOGICAL SOCIETY OF NORTH AMERICA
Chicago, Illinois

November 18, 1976

4th DISTRICT M.S.R.T. MEETING
Forest Park Community College, 8:00 P.M.

December 13, 1976

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

An Experience in "Helping"



Faye Trent, junior volunteer in radiology, assembles a day's quota of Xray procedure pamphlets published by the Mallinckrodt Public Relations Department. The pamphlets, which she will deliver to 70-80 patients throughout the medical center, explain what is involved in the patient's x-ray examination the following day. Faye is 15 years old and is in the 10th grade at Mary Institute.

Venezuelan Visitor



A recent visitor to Radiation Oncology was Dr. Jose Luis Padilla of Maracaibo, Venezuela. The country's second largest city, Maracaibo is located on the Gulf where offshore drilling by many oil companies is a major industry. A year round tropical climate and many beaches attract tourists and deep sea fishermen.

Dr. Padilla is Chief of Radiation Therapy in the University Hospital of Maracaibo, a 1000 bed hospital, and his department administers approximately 60 cobalt treatments a day.

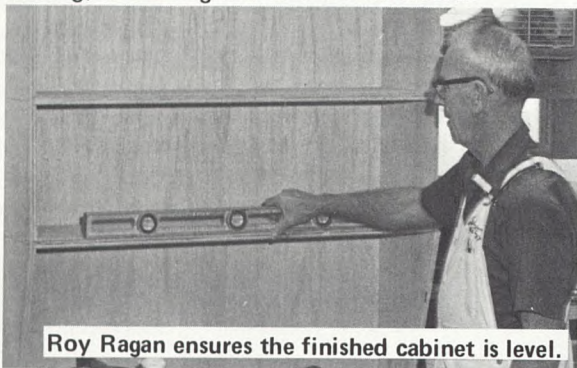
During this year of observation and study in the United States, Dr. Padilla will visit hospitals at the Universities of Florida and California, Stanford University and Mallinckrodt. One of the areas he closely observed at the Institute was the computerized treatment and planning program. He plans to return to Venezuela and create and develop (according to knowledge gained here) an approach most practical and appropriate to his situation.

CABINET HANDIWORK

As we passed the carpenter shop today, we noticed Roy Ragan and Bob Shaw surrounded by a deluge of cabinets and shelves all custom built!!

Our comment about "building quite a reputation for yourselves with all this imaginative cabinet-making" didn't evoke even a slight response from Roy. He just kept on building!!

Well, with about 175 wooden cabinets to provide each year to all areas of the Institute, there isn't much time for comment. Particularly when the top priority jobs of regular maintenance come first, then in the available time the cabinets (which are time-consuming) are designed and constructed.



Roy Ragan ensures the finished cabinet is level.

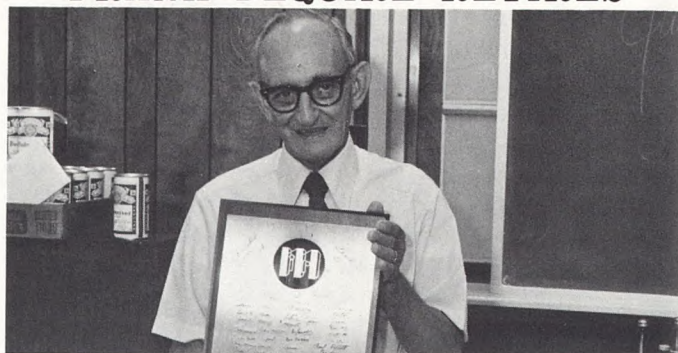
The two-man crew make up the measurements and dimensions for the cabinets according to the notations from the Mallinckrodt supervisors requesting them. Roy and Bob then build, sand, and apply the wood-grain formica to the finished product. And the interesting aspect is the cabinets are all different. Office cabinets require about a week to complete whereby a file cabinet such as our radiology pamphlet holder takes about a day.

HAPPY BIRTHDAY, PHIL!



Phil Sotir, technical supervisor, flashed his million dollar smile on July 21st when 5th Xray presented him with a surprise birthday cake complete with a delicious icing replica of his trusty camper!

FRANK DEQUIRE RETIRES



Soon after the Second World War, Frank Dequire came out of the army as an Xray technologist and took a position at Mallinckrodt Institute. Thirty years later, Frank Dequire retired from the Institute after working in various areas of technology, on 2nd floor, as a supervisor, and for the last eight years as operating room technologist.

Frank's work day began early in the O.R.. He changed from his dapper-looking street clothes to his green scrub suit and made his way with the portable Xray machine to surgery for a fast-paced schedule of Xray assistance.

A native Missourian, Frank has been married for 46 years to Lucille Dequire. The couple enjoy their comfortable home in south St. Louis and taking long rides through the Missouri countryside. When asked about his retirement plans, Frank said, "I'm just going to rest until I get tired of resting." Working under every director of the Institute since Dr. Sherwood Moore, Frank said he had always liked to help people and had thoroughly enjoyed his 30 years at MIR.

To honor Frank Dequire, a party was given by the third Xray staff on June 30. Organized by Barbara Pearson and Al Coffman, the party included a splendid array of food and refreshment and many friends in attendance. The highlight of the occasion was the presentation to Frank of a handsome brass plaque of appreciation for his 30 years of service autographed and inscribed by a host of friends and co-workers at Mallinckrodt.

WHO IS BARBARA'S LAWYER?

HER DAUGHTER!

Barbara McGull, Film Librarian, attended the graduation of her daughter, Marqua McGull, from Loyola University School of Law in Chicago, June 13. Recently nominated to participate in the 1976 "Outstanding Young Women of America Program," Marqua became a staff attorney at Chicago's Cook County Legal Assistance on August 1.

Mallinckrodt Is People

"OUR OWN LITTLE WORLD"

That's how Gene Hood, film library warehouse supervisor, described the eight day Caribbean cruise which he and his wife, Evaughn, enjoyed in June aboard the Norwegian, "MS Southward." The warm sun, ocean breeze, ideal temperature, swims in the ship's pool, gourmet food, and congeniality among the 700 passengers, contributed to a life aboard ship that upstaged the ports of call: Jamaica, Yucatan, and Mexico. "We're already planning a return trip," said Gene.



Talented Gene Hood was called upon to entertain with guitar, songs, and his "Superman Act."

T-SHIRT COLLECTOR



First floor film librarian, Steve Carosello, is pictured above with several of the 83 T-shirts he has accumulated over the years from record companies and various shops in England and America.

WEDDING BELLS



Patricia Dennis, Cashier in Accounting, was married on April 24, 1976, to Stephen M. Mulligan.

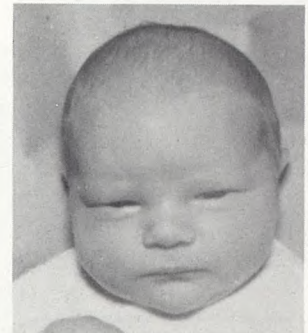
NEW ARRIVALS

Mr. and Mrs. Harold Ratliff (Sue is a 2nd floor medical transcriptionist) announce the arrival of their second son, Damen K. Scott, on June 12, 1976. Damen weighed 9 lbs., 1 oz. and each letter in his name represents a brother or sister in Sue's family.

Sharon and Mile Albertina announce the arrival of their first child, a son, Bradley Jay Albertina. He weighed 8 lbs. and was born on May 5, 1976, the date of their third wedding anniversary. Both parents are radiologic technologists and Mike is 3rd floor technology supervisor.



Bradley Jay Albertina



Damen K. Scott Ratliff

SELECTED "BEST SMILE"

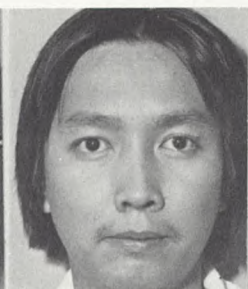


June Bodeman

FOCUS ON NEW FACES



Mike Moore,
Assistant Electronics
Technician



Fred Cadiz,
Darkroom Technician



Bertha Beasley,
2nd Xray
Receptionist (Evenings)



Carolyn Wright,
Medical Transcriptionist



Margaret Magnan,
Medical Transcriptionist



Gina Lombardo,
Patient Data Clerk

FILM LIBRARIANS



Nancy Hurley,
2nd Xray Receptionist



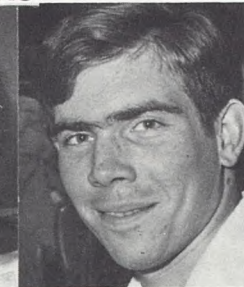
Vincent Taylor,
Evenings, 1st floor



Steve Bernier,
3rd floor



Stan Doerr,
Evening Supervisor,
1st floor



Paul Bowman,
Evenings, 1st floor



Alexander Ford,
Warehouse

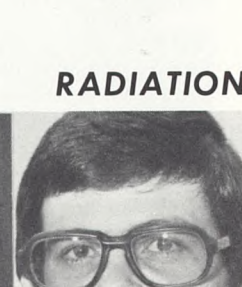
RADIATION ONCOLOGY



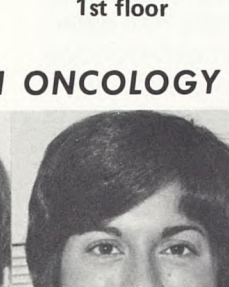
Debbie Gazzaway,
Scheduling Clerk
(evenings)



Nancy Leon, Receptionist



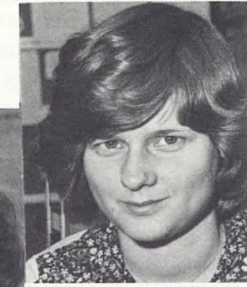
Dave Baker,
Electronics Technician



Pat Zorich,
Clinical Secretary



Brit Stoskopf, Shuttle Bus Driver



Cheryl Markham,
Mail and File Clerk
(weekends)



Fairstene Jennings,
Assistant Nursing Supervisor



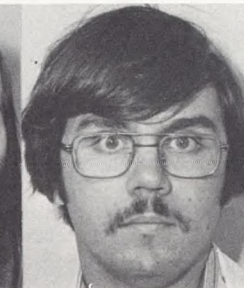
Shirley Davis, R.N.,
Nursing Supervisor



Roberta Fox, Programmer



Dana Sawyer,
Treatment Planning
Technician



Charles Ruzicka,
Research Technician,
Pediatric Oncology



Glen Fry,
Research Technician,
Cancer Biology

CITY-WIDE RADIOLOGY CONFERENCE

1975-1977

St. Louis, Missouri

Scarpellino Auditorium, Mallinckrodt Institute of Radiology, 5:30 P.M.

DATE	TOPIC	LECTURER	CLINICAL MATERIAL
9/13/76	Description of Computed Tomography and its Future	Godfrey N. Hounsfield, F.R.S. Inventor of the E.M.I. Brain & Body Computed Tomography Scanners London, England	No Second Session
10/11/76	Comparison of Radiographic, Radioisotopic and Bioassay Procedures in Evaluating Hypertension: A Follow-up of 700 Patients	John G. McAfee, M.D. Professor of Radiology Chief, Division of Nuclear Medicine State University of New York Syracuse, New York	Drs. Barry Siegel, Adel Mattar, & Gaellan McIlmoyle Mallinckrodt Institute
11/8/76	Radiologic Investigation of Malignant Disease in Children	John L. Gwinn, M.D. Director of Radiology Children's Hospital Los Angeles, California	Drs. Gary Shackelford & William McAlister Mallinckrodt Institute
12/13/76	Clinical Utility of Ultrasound	Guillermo C. Geisse, M.D. Assistant Professor of Radiology Mallinckrodt Institute of Radiology	Dr. Noah Susman & Staff Jewish Hospital of St. Louis
1/10/77	Evaluation of the Biliary Tree	Robert N. Berk, M.D. Professor and Chairman Department of Radiology University of Texas Southwestern Medical School Dallas, Texas	Drs. Myo Kyaw & Gene Davis Radiology Department Christian Hospitals
2/14/77	Esophageal Ulcer Disease	Sumner Holtz, M.D. Chief of Radiology St. Luke's Hospital	Drs. John Fries & James Martin St. Anthony's Hospital
3/14/77	Body Computed Tomography	Stuart S. Sagel, M.D. Robert J. Stanley, M.D. Associate Professor of Radiology Mallinckrodt Institute of Radiology	Drs. Stuart Segal & Robert Stanley Mallinckrodt Institute
4/11/77	Osteophytes, Syndesmophytes and other "Sygthes"	Donald Resnick, M.D. Assistant Professor of Radiology University of California, San Diego, and Chief, Orthopedic Division of Radiology Veterans Administration Hospital San Diego, California	Drs. Louis Gilula & William Murphy Mallinckrodt Institute
5/9/77	Newer Trends in Mammography — Medical and Physical	William A. Murphy, M.D. Assistant Professor of Radiology Mallinckrodt Institute of Radiology	Dr. Armand Brodeur & Staff Department of Radiology St. Louis University Hospitals

"Retrospect"

The heritage of the Edward Mallinckrodt Institute of Radiology is the heritage of the pioneer. But the real story of the Institute is hope, the inquiring spirit, knowledge, and saving human life. Through the years, the Institute has brought together physician, teacher, scientist, student, and technologist. Their common bond is a hunger for knowledge and its key to the mysteries of disease which can add productive years to the span of human existence. This story must be our frame of reference as we envision the potential of Mallinckrodt Institute in America's third century.



ENDORSED BY
SAINT LOUIS SPIRIT OF '76



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FOCAL SPOT

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