

Winter 1977

Focal Spot, Winter 1977

Follow this and additional works at: http://digitalcommons.wustl.edu/focal_spot_archives

Recommended Citation

Focal Spot, Winter 1977, January 1977. Bernard Becker Medical Library Archives. Washington University School of Medicine.

This Book is brought to you for free and open access by the Focal Spot at Digital Commons@Becker. It has been accepted for inclusion in Focal Spot Archives by an authorized administrator of Digital Commons@Becker. For more information, please contact engeszer@wustl.edu.

FOCAL SPOT

SHELVED IN ARCHIVES



Property of Washington University
Medical Library

MAR 5 '79

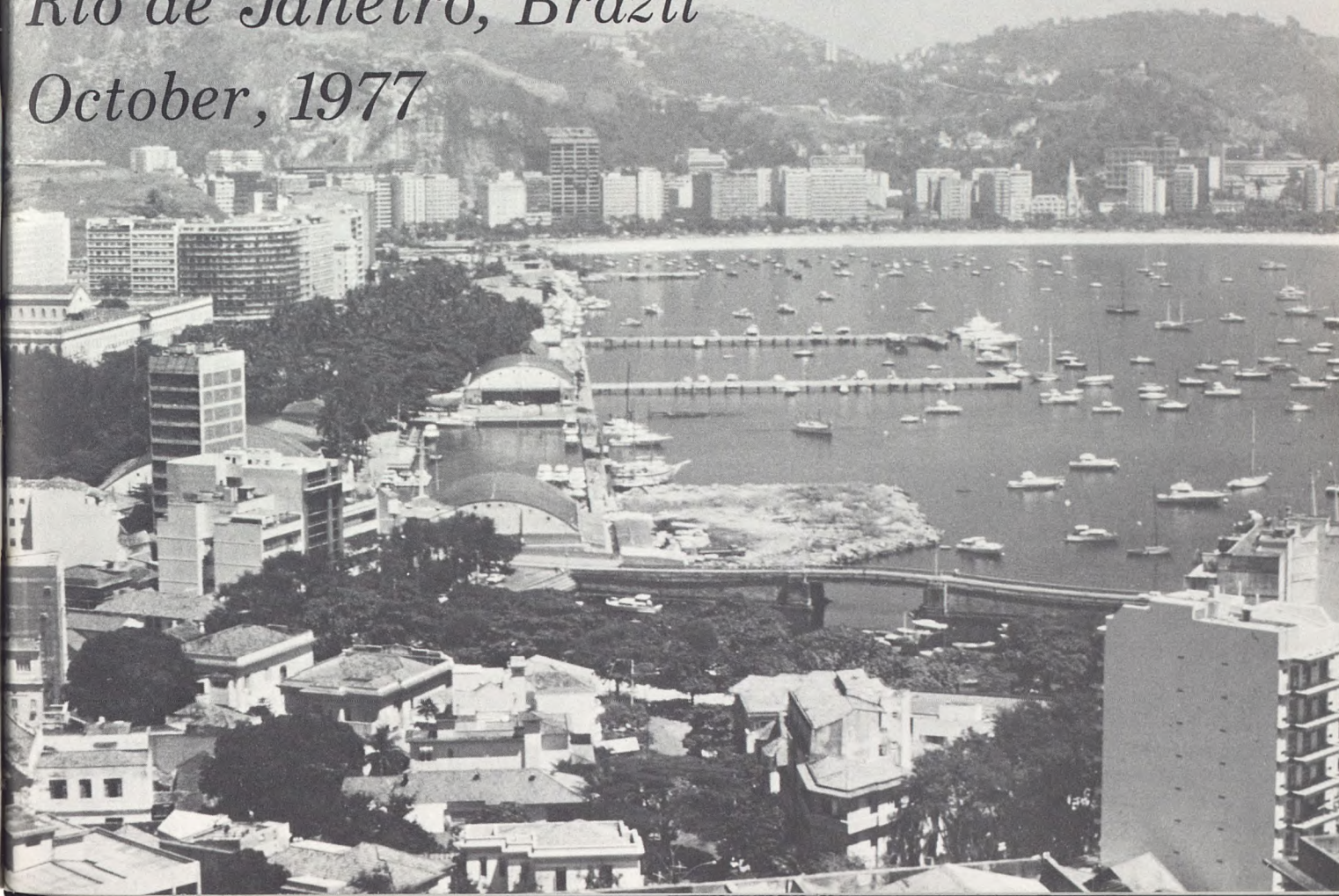
A NEWSLETTER OF MALLINCKRODT INSTITUTE OF RADIOLOGY

VOLUME VII

WINTER 1977

NUMBER 20

*XIV International Congress of Radiology
Rio de Janeiro, Brazil
October, 1977*



ON THE COVER

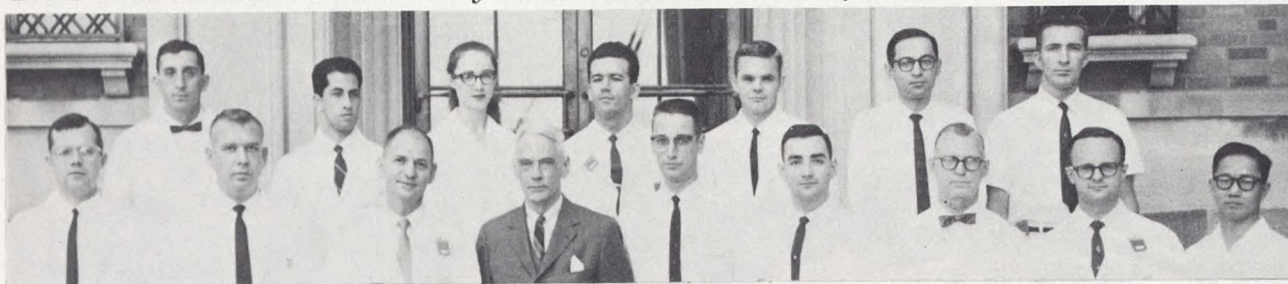
Rio de Janeiro, Brazil, site of the XIV International Congress of Radiology. They came from Kansas, anxious to get away from the snow whistling across the plains. They came from California, to leave the dreary smog behind. They came from Missouri because they heard it was springtime in Rio. They came from London to get away from the multitude of tourists celebrating the Silver Jubilee. They came from Madrid looking forward to being guests of the Congress rather than hosts as they were in 1973. For an update, see story on page 20.

Cooperative Measure



In a cooperative measure to improve the workings of hospital insurance programs, Dr. Ronald Evens hosted a luncheon and brief tour of Mallinckrodt Institute on November 22 for a group of executives representing many insurance companies in the Health Care field. The purpose of the meeting was to better acquaint the guests with the Institute and certain radiologic procedures which are utilized in patients who have their third-party insurance coverage with the companies.

Do You Recall? It Was A Very Good Year -December, 1962



Front row, left to right, Drs. Howard L. Hudson (61-65), William B. Hutchinson (60-63)-also Instructor (63-64), Alexander R. Margulis-staff, Hugh M. Wilson-Director, James P. Kase (62-65), Alan H. Edelman (62-65), Donald F. Rayl (60-63)-deceased, William H. McAlister-staff (60 to date), Anastacio C. Ng (60-63). Second row, Drs. Irwin D. Zim (60-63)-also Instructor (63-64), Fernando Ligarreto (62-64)-deceased, Lily A. (Palmer) Hanes (61-64-resident; 64-66 NCI trainee in Radiation Therapy) also staff 1966-67 and 7/15/72-to date, Carlos A. Perez (60-63)-also staff 64 to date, John P. Locksmith (62-65), William N. Cohen (60-63), and Robert B. Salmon (62-65)-also Instructor 65-67.

Dr. Evens Testifies in Washington About CT

Dr. Ronald G. Evens, Director, Mallinckrodt Institute of Radiology, was one of three radiologists invited to testify about the proposed National Health Guidelines regulating computed tomography. Dr. Evens presented his statement to the Health Planning Council of the Health Resources Association and Congress on November 16, 1977. In addition to Dr. Evens, testimony was received from Dr. Hillier Baker of the Mayo Clinic and Dr. Gladden Elliott of San Diego, California who represented the American College of Radiology. The proposed National Health Guidelines were published in the Federal Register of September 23, 1977, and relate to many areas of medical care, including computed tomography, cardiac catheterization, and high energy radiation therapy equipment.



ASTR Meeting in "Mile High" City

The following Division of Radiation Oncology staff members participated in the 1977 meeting of the American Society of Therapeutic Radiologists held in Denver from November 1-4.

SCIENTIFIC PRESENTATIONS:

Carlos A. Perez, M.D., Chairman, Technical Exhibits-Psychological Reactions of Patients to Radiation Therapy and The Diagnosis of Cancer.

The Effect of Various Doses of Combined Intracavitary and External Irradiation in Survival and Tumor Control of Stage I and IIA Carcinoma of the Uterine Cervix.

The Role of Radiation Therapy in the Local and Regional Control of Carcinoma of the Breast.

James A. Purdy, Ph.D., **F.G. Abrath, Ph.D.**, **A. Sorenson, B.S.**-Dose Distributions Perturbations Due to Secondary Blocking.

Fred G. Abrath, Ph.D., and **James A. Purdy, Ph.D.**-Investigation of Clinac 35 Linear Accelerator Wedged Fields for 25 MV X-rays.

Jeannette Lee, Ph.D.-Statistics - An Interactive Survival Analysis Package.

James E. Marks, M.D.-Pharyngeal Wall Cancer: An Analysis of Treatment Results, Complications and Patterns of Failure.

Satish C. Prasad, Ph.D.-Dependence of Tolerance Dose on Treatment Field Size in Radiotherapy.

Aly Razek, M.D.-The Role of Radiotherapy in the Inter-group Ewing's Sarcoma Study.

Effect of Irradiation and Chemotherapy on Murine Neuroblastoma.

Bruce J. Walz, M.D.-Anatomical Prognostic Factors After Abdominal Perineal Resection.

EXHIBITS

Glenn P. Glasgow, Ph.D., **Carlos A. Perez, M.D.**, **Glen Reeves, M.D.** and **Jeannette Lee, Ph.D.**-The Use of Radiation Therapy in Treating Carcinoma of the Breast.

Don Ragan, Ph.D., **Carlos A. Perez, M.D.**, **James A. Purdy, Ph.D.**, **Satish C. Prasad, Ph.D.** and **Bruce Gerbi, M.S.**-Quantitative Evaluation of Computerized Tomography in Treatment Planning.

James A. Purdy, Ph.D., and **Carlos A. Perez, M.D.**-Clinac 35 Linear Accelerator.

PHYSICS POSTGRADUATE COURSE

James A. Purdy, Ph.D.-Clinical Physics of Wedge and Compensating Filters in Radiation Therapy.

WORKS-IN-PROGRESS

Walter J. Kopecky, Ph.D. and **Gary A. Presant, M.D.**-Phase I-II Study of Hyperthermia on Human Neoplasm.

B. Ramanath Rao, Ph.D.-Establishment of an *In Vitro* Clonogenic Cell Assay for the Copenhagen R3327-At and -H Rat Prostatic Tumor as a Therapeutic Model for Human Prostatic Cancer.

Subhash C. Charma, Ph.D. and **John T. Hood, B.S.E.E.**-Polyethylene Pellets in the Design and Construction of a Storage Safe, a Transport Vessel and a Portable Shield for Californium-252.

RSNA, 1977

McCormick Place on the Lake
Chicago, Illinois Nov. 27-Dec. 2

The program agenda of the 63rd Annual Scientific Assembly of the Radiological Society of North America included the following contributions from the Mallinckrodt Institute staff:

REFRESHER COURSES:

"Economic Aspects (Utilization Cost, Revenue, and Efficacy) of Head and Body Computed Tomography", **Ronald G. Evens, M.D.**

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

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

"Supratentorial Cerebral Angiography in Three Major Pathologic Entities", **Mokhtar H. Gado, M.D.**

"Congenital Genitourinary Anomalies: Presentation and Uroradiologic Evaluation", **Bruce L. McClennan, M.D.**

Barry A. Siegel, M.D., was co-chairman of the Categorical Course in Nuclear Medicine.

PAPERS:

"Post-Traumatic Ligamentous Instabilities of the Wrist," **Louis A. Gilula, M.D.** and **Paul M. Weeks, M.D.**

"Prolonged Gallbladder Opacification After Oral Cholecystography", **Robert E. Koehler, M.D.**, **Robert J. Stanley, M.D.**, and **Joseph Di Croce, R.T.**

"A Multislice Positron Emission Computerized Tomograph (PETT IV) Yielding Transverse and Longitudinal Images", **Michel M. Ter-Pogossian, Ph.D.**, **Nizar A. Mullani, John Hood, Carol S. Higgins, and C. Michael Currie.**

"Prognostic Significance of Tumor Size for Glioblastoma Multiforme", **Glen I. Reeves, M.D.** and **James E. Marks, M.D.**

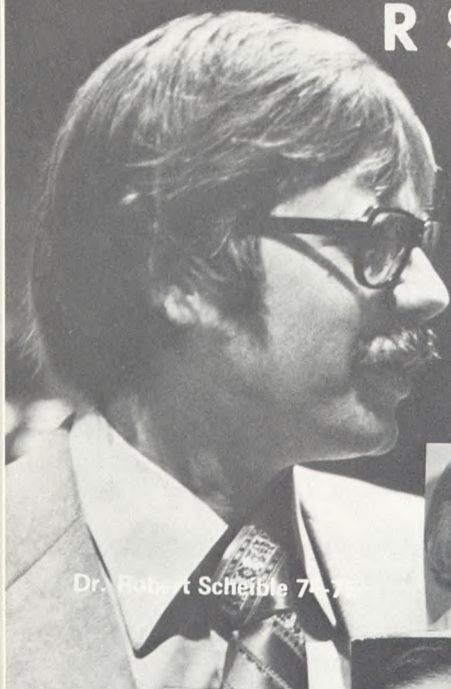
"Data Management in Radiation Therapy", **Don P. Ragan, Ph.D.** (Presented in joint sponsorship with the American Association of Physicists in Medicine.)

EXHIBITS:

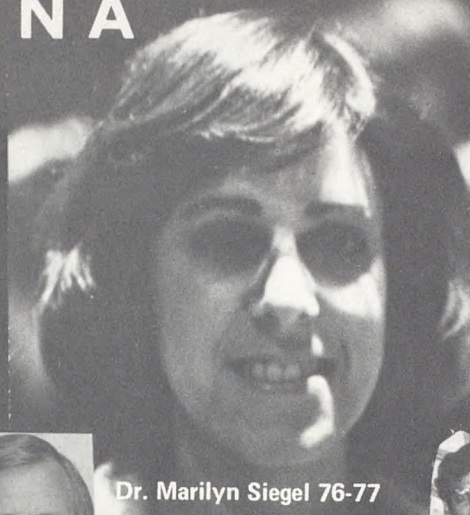
"The PA Wrist View: Key to Complex Carpal Trauma", **Louis A. Gilula, M.D.**

Over 10,000 U.S. radiologists convened in Chicago for the annual meeting. The MIR staff members in attendance addressed themselves to a serious agenda of papers, discussions, refresher courses, and over 200 technical exhibits.

RSNA



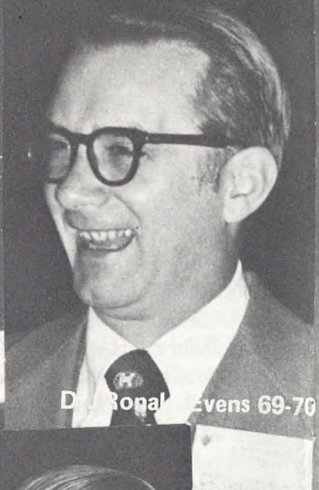
Dr. Robert Schreibe 76-77



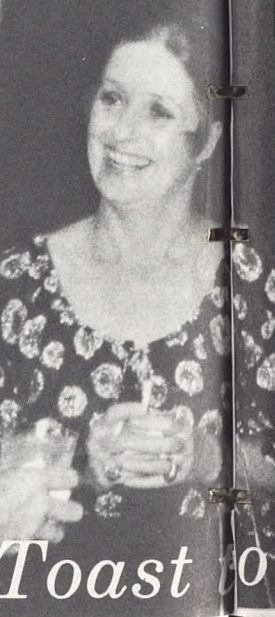
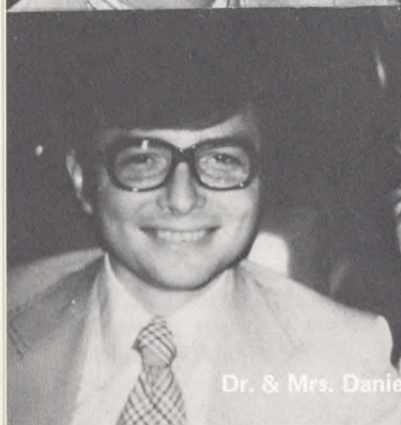
Dr. Marilyn Siegel 76-77



Dr. Royal Stevens 69-70



Dr. & Mrs. Daniel Biello 76-77



This year's social agenda was highlighted by the institute at a reception sponsored by Washington held at the McCormick Inn on Monday evening, the fine turn-out of alumni and honored guests and their spouses.

A Toast to



Dr. John F. [unclear] 68-69

Dr. & Mrs. Charles Williams 67-68

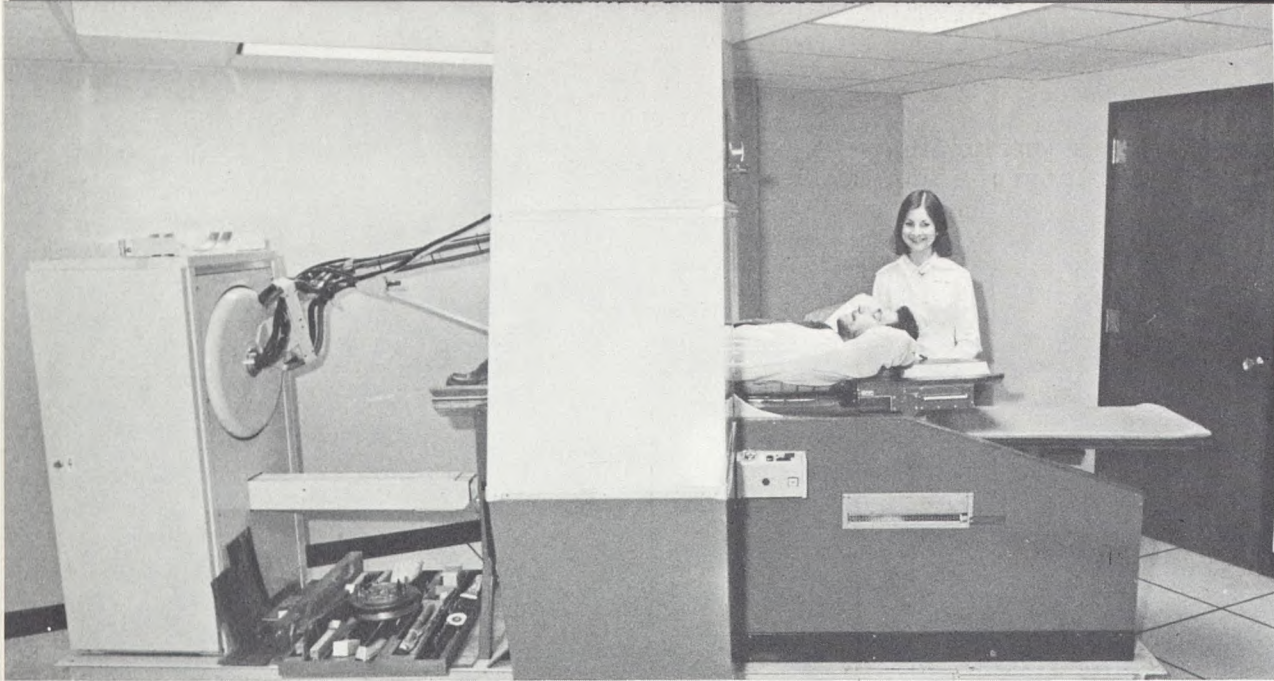
Dr. F. [unclear] [unclear] 74-75

Dr. & Mrs. Gene Davis 75-76

Dr. & Mrs. Philip Weisman 77-78

...ted
Wash
ever
ed
...y the honoring of all past chief residents of the
Washington University Medical Center Alumni and
...ing, November 28. Dr. Ronald Evens welcomed
...ests, present and former MIR staff members,

to the Chefs



CT Scanner Aids Treatment Planning

The CT scanner formerly located on the second floor of MIR now occupies new quarters on the ground floor within the Division of Radiation Oncology. The new location will make it more feasible for the Division staff to use and further develop computed tomography as an aid to radiation therapy treatment planning.

The Division began its studies of computed tomography as a treatment planning tool in the spring of 1976. Since that time, staff members have been able to identify several ways in which the scanner can provide valuable input into the treatment planning process.

The goal of radiation therapy — to kill as many tumor cells as possible, while damaging as few normal cells as possible — can best be achieved when the therapist can precisely delineate all tumor extensions toward which radiation should be directed. The scanner not only outlines the patient's outward body contour, but also shows the position of anatomical structures which must be carefully avoided during radiation treatment. In addition to delineating the patient's normal structures, the scanner can often differentiate between normal and tumor tissues. In this application, a CT scan is most useful when there is a marked difference in density between the tumor

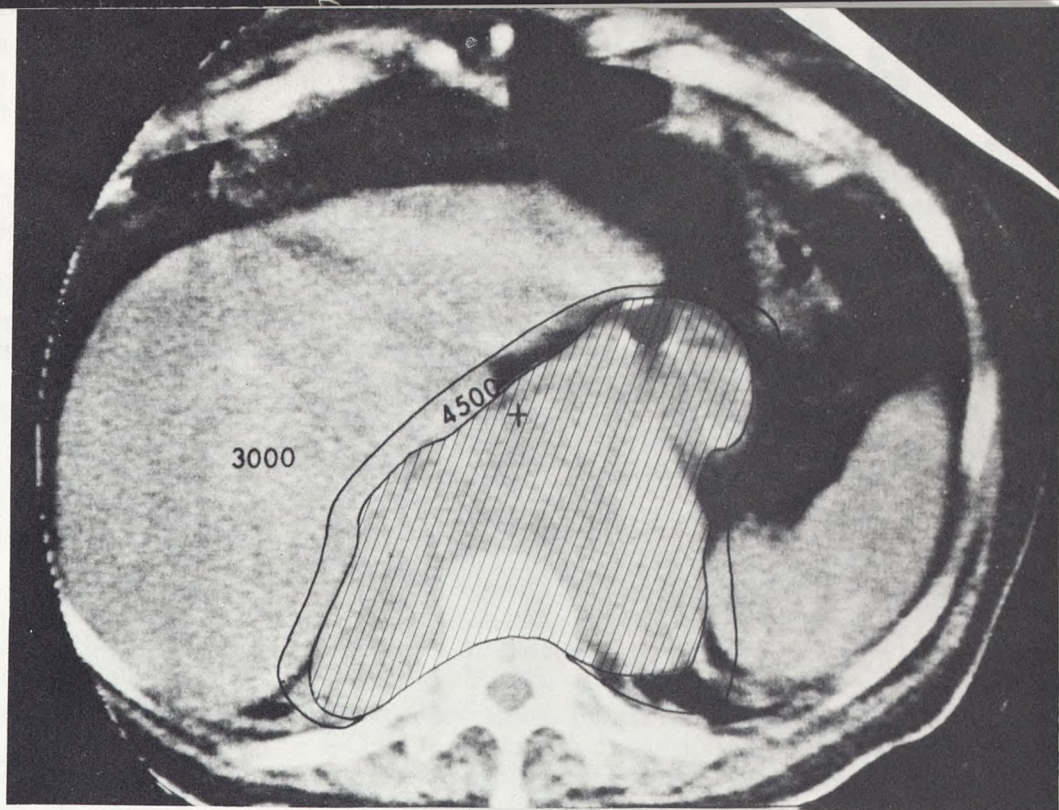
and the surrounding tissue; however, even when the scan does not clearly indicate where tumor stops and normal tissue begins, it can provide less specific, but still useful, information on tumor location.

Inhomogeneities such as bone or fat can cause serious discrepancies between the planned dose of radiation and the dose actually delivered. In this area, too, CT scans can help the treatment planning physicist. Computed tomography data, used in conjunction with established inhomogeneity compensation methods, can lead to more accurate calculations of the delivered dose.

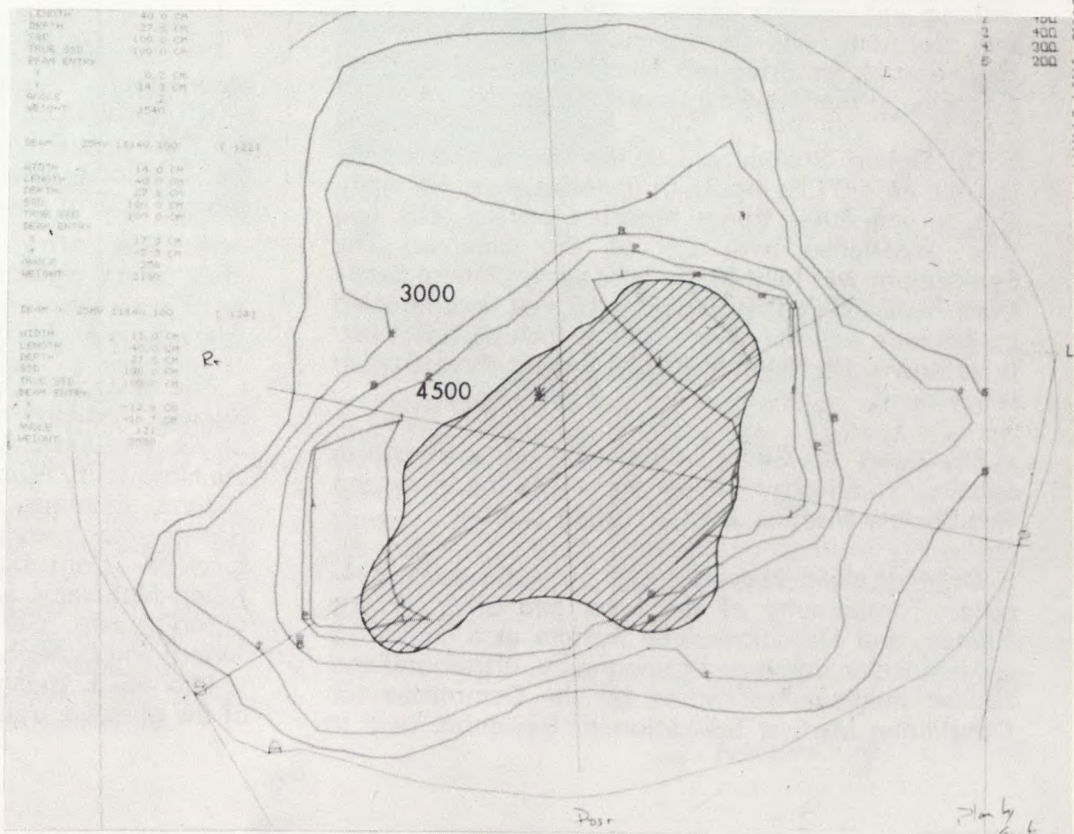
As with any new technique, a number of problems must be solved before computed tomography reaches its full potential as a treatment planning aid. For example, patient repositioning and registration of the CT scan and the interface of the CT scan information with the treatment planning computer are two of the areas that MIR's scientists are actively investigating. Resolution of problems such as these will render the CT scanner even more useful in the realm of treatment planning.

With the installation of the EMI scanner on the ground floor, MIR's radiation oncologists and physicists will be able to benefit more than ever from a device which has so much to offer in the field of radiation therapy treatment planning.

An example of a CT scan showing a tumor (shaded area) and dose of radiation to be delivered.



A treatment plan devised from the scan to accomplish the desired treatment.



WHAT'S UP, DOC?



Dr. Mokhtar Gado presented three lectures as Visiting Professor in Diagnostic Radiology at McGill University, Montreal, Canada, Dec. 5-8. The first lecture, "Some Quantitative Aspects of CT", was given at the Royal Victoria Hospital. Dr. Gado spoke on "Cerebral Infarction by CT" at a meeting attended by radiologists from the province of Quebec and Ontario and visiting radiologists from New York state and Vermont. His third lecture, "The Effects of Radiation on the Brain and Tumor Evaluated by CT", was given in the Montreal General Hospital.

Dr. Robert Stanley was an invited member of the faculty of a CT Symposium in Heidelberg, Germany and among other things reported on the MIR two year experience with CT of the pancreas. The Symposium was held in the famous Heidelberg Castle from Sept. 26-Oct. 2. Dr. Stanley was accompanied by his wife and they were able to include a two-day drive down the Rhine Valley as well as three days in Heidelberg.

Dr. Louis A. Gilula presented a refresher course entitled "Radiology of the Wrist" at the Roentgen Ray Society Meeting, Sept. 27-30 in Boston.

Dr. G. Leland Melson presented lectures on Computed Tomography of the Liver and Biliary Tract, Kidney, and Musculoskeletal System at a combined conference on computed tomography, ultrasound and nuclear medicine sponsored by the Committee for Continuing Medical Education of Bayamon, held in

San Juan, Puerto Rico on October 10-14. During the conference, Dr. and Mrs. Melson enjoyed again visiting with Dr. Edda de Sevilla and her husband, Angel.

Dr. Bruce L. McClennan gave two lectures; "Upper Urinary Tract Obstruction: Problems in Diagnosis" and "CT of the Renal Mass - Effect on the Diagnostic Process" at the Radiologic Society of Southern California meeting Sept. 9-10 in Rancho Bernardo, California.

Dr. Robert Stanley attended the meeting of the Society of Gastrointestinal Radiology at Hilton Head, South Carolina in mid-September and was a member of a panel concerned with the radiologic evaluation of the liver.

Dr. Bruce L. McClennan attended the annual meeting of the American Roentgen Ray Society in Boston and presented a paper at the Society of Uroradiology entitled "CT of the Renal Cyst-Is Cyst Aspiration Necessary?"

Dr. Glenn Glasgow has been appointed a member of the Toxicology Working Group of the Radiation Oncology Coordination Sub-Committee of the Board of Scientific Counselors in the Division of Cancer Treatment of the National Cancer Institute.

On Oct. 18, Dr. Bruce L. McClennan spoke to the Mecklenburg County Medical Society in Charlotte, North Carolina on "CT of the Body-An Overview for the Practicing Physician." He gave a second talk to the Charlotte Memorial Hospital Staff on Oct. 19 entitled "CT of the Body."

Nuclear Medicine Symposium

The Missouri Valley Chapter of The Society of Nuclear Medicine held a three-day meeting, October 21-23, entitled "Advances in Nuclear Medicine" at the Hospitality Motor Inn, Earth City, Missouri.

John Eichling, Ph.D., Barry Siegel, M.D., and Gaellan McIlmoyle, M.D. were among the invited speakers. Contributed papers were presented by Karen McElvany, who won Best Contributed Presentation Award, Gary J. Ehrhardt, Ph.D. (Runner-up award) and C. Michael Currie.

Michael J. Welch, Ph.D. was sworn in as President of the Missouri Valley Chapter for 1977-79.

The Director's Office Reports:

OFF STAFF

Dr. Michael Mikhael has accepted a position as an Associate Professor at Northwestern University in Evanston, Illinois where he will be Chief of the Neuroradiology Section at Evanston Hospital, effective January 1, 1978. Dr. Mikhael has been a member of the neuroradiology staff at MIR, since completing a diagnostic radiology residency and specialized training in neuroradiology at the Institute.

Dr. Linda Knight (Research Associate, 1976-77) is now a Research Assistant Professor at the Thrombosis Center, Temple University Medical Center, working as a radiochemist with the Nuclear Medicine Department to develop radiopharmaceuticals for thrombus detection.

Dr. Isidro Huete has returned to Santiago, Chile where he is practicing neuroradiology at the Hospital Clinico Universidad Catolica. Dr. Huete was an Instructor and Fellow in the Section of Neuroradiology at the Institute from 7/74 - 10/77.

NEW STAFF

Dr. Glen I. Reeves completed his training in radiation oncology at MIR and will remain on the staff as an instructor in radiology in the Division of Radiation Oncology, effective January 1, 1978.

"Case of the Week" Winner



The Mallinckrodt Institute of Radiology sponsors two "Case of the Week" contests each year for medical students and non-radiologic house staff. Each week a series of radiographs are presented in the film library viewing room and written answers are submitted and tabulated.

Bruce Thaler, a 4th year medical student from Long Island, New York, has been announced the winner of the first contest of this year by Dr. Fred Oakley, 2nd year resident at Mallinckrodt. Dr. Oakley is responsible for selecting the weekly cases and posting the correct answers and a brief discussion.

Having given the most correct answers, Mr. Thaler will receive a twenty-five dollar book allowance.

MIR Physicists Presentations

The following scientific papers were presented at the 19th Annual Meeting of the American Association of Physicists in Medicine, Cincinnati, Ohio, July 30 - August 4, 1977:

-Calculation of the Specific Gamma-Ray Constant and Exposure-Rate Constant of ^{192}Ir - G. Glasgow.

-The Effects of Field Shaping on Maximum Absorbed Dose and Field Flatness of 7 MeV to 22 MeV Electron-Therapy Beams - M. Choi, B. Gerbi, F. Abrath, G. Glasgow, J. Purdy.

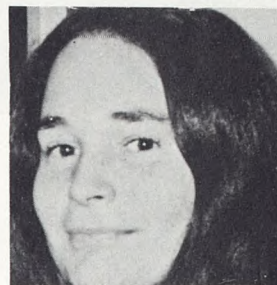
-Applicability of Inverse-Square Correction for Electron Beams at Different Treatment Distances - J. Purdy, M. Choi, B. Gerbi.

-Residual Radioactivity in Treatment Aids Irradiated With 25 MeV Photons - G. Glasgow.

-Application of Scatter-Air Ratios To Calculation of Dose Distributions in the Presence of Inhomogeneities - S. Prasad.

-Patient-Specific Data Acquisition for Electron Beam Therapy - J. Purdy.

Laurie Braun, MSW, Reports:



There is a new medication service program in which cancer patients can apply to the American Cancer Society for a card which will entitle them to 10% off on all medication purchased at Medicare pharmacies. Cards are available to all cancer patients, regardless of financial status. To obtain a card, the patient can call or write the American Cancer Society, or obtain a form available in nursing at M.I.R.

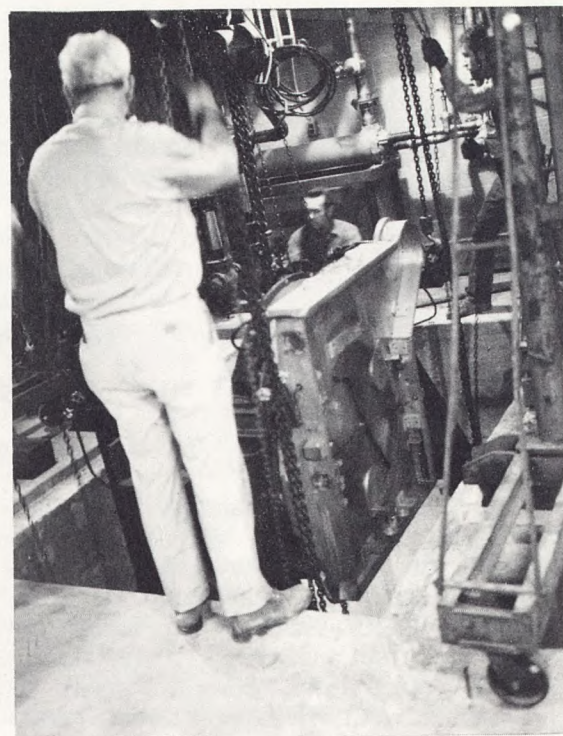
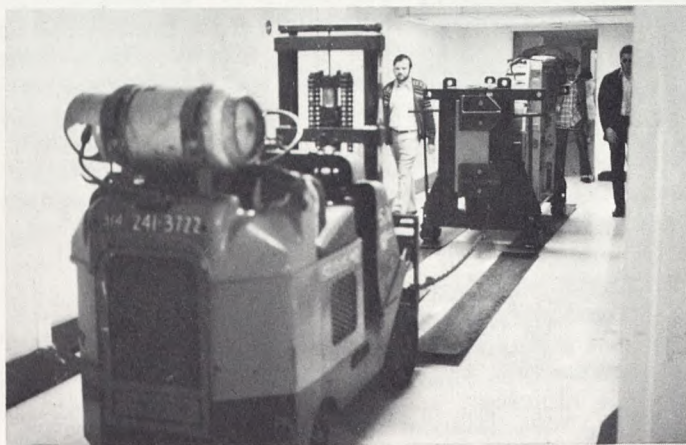
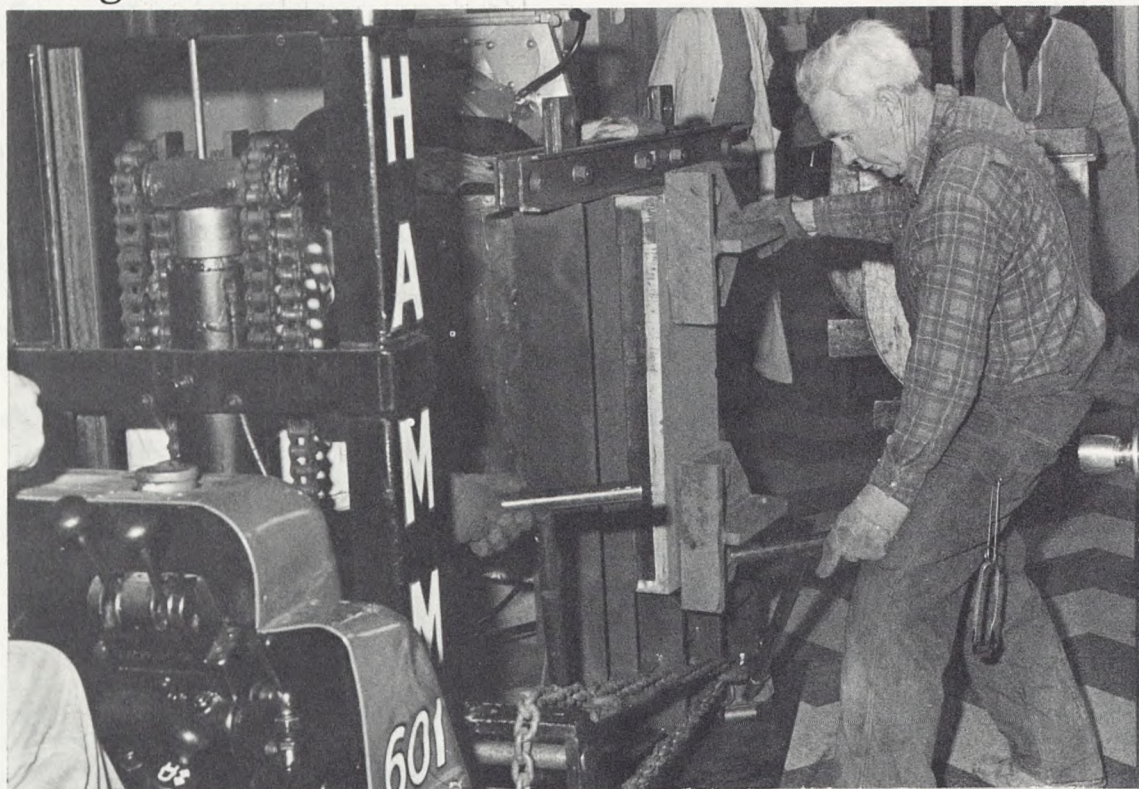
The Holiday Season

should emphasize our responsibility for giving the best possible radiologic care to the patients of St. Louis and the Washington University Medical Center. Holiday giving is usually once a year, whereas our giving of concern and excellent care must be year-round. Any gift is hard to deliver every day; but if we do our best, it can be the most rewarding gift of all.

May your holiday season be one of love, happiness, and joy.

Dr. Ronald G. Evens
Director of Mir

Work Begins on Second Cyclotron



It was much like laying a cornerstone of the second cyclotron at Washington University School of Medicine as the largest of the intricate components, the 16 ton magnet, was guided through the halls of Barnes basement, with the aid of heavy equipment and manpower, and spectacularly lowered into the specially made vault in Barnard Hospital. The purchase of this second cyclotron makes Washington University the only medical center in the world with two cyclotrons. The first medical cyclotron in the U.S. was installed at Barnard Hospital in 1964.

Radiation Oncology - -

Billing is Part of Patient Care, Too

The Division of Radiation Oncology provides radiation therapy to patients not only at the Washington University Medical Center but also at Missouri Baptist Hospital and St. Luke's East and West Hospitals.

According to **Beverly Kobeissi**, the Administrator of Radiation Oncology, in the calendar year 1976, over 27,000 external beam treatments were given, and 223 interstitial/intracavitary implants were performed. The Division saw 1,252 new patients at MIR, and 82 at St. Luke's Hospital East. There were 3,304 follow-up examinations and 390 patients returned to MIR for treatment. This significant volume of clinical activity requires efficiency and coordination in the Billing and Insurance office of Radiation Oncology.

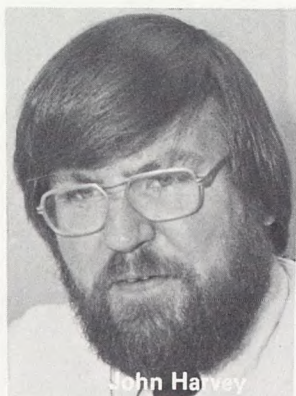


Beverly Kobeissi

"Our primary commitment in handling patient accounts in Radiation Oncology is to the patient," said Ms. Kobeissi, "and to show our concern through helpful information, patience, and friendly efficiency."



Jayne Graves



John Harvey

The Patient Accounts function is carried out by four Billing Clerks under the supervision of **Jayne Graves**, Manager of Billing and Collections. Jane supervises the daily operation of the office and further responsibility is channeled through **John Harvey**, Administrative Assistant-Finance. John's efforts are primarily devoted to the financial analysis of Patient Accounts. Using a computer terminal, **Louise**

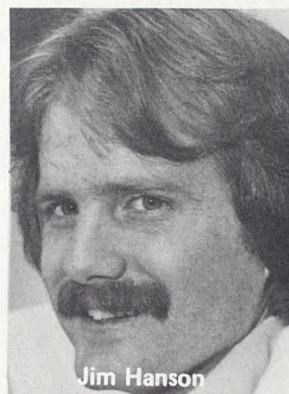


Louise Anderson



Earseline Easley

Anderson enters charges into the computer which are not RITHM generated and charges on patients treated at Missouri Baptist and St. Luke's Hospitals. **Earseline Easley** submits Medicare, Medicaid, IDPA and group insurance claims and follows up on claims submitted.



Jim Hanson



Marita Sykes

Jim Hanson handles the billing of those portions of accounts that are not covered by insurance. His duties involve considerable patient contact in setting up payment arrangements. **Marita Sykes** interviews new patients and obtains information concerning insurance coverage. She also submits and follows up on Blue Cross/Blue Shield insurance claims.

MEDICAL LIBRARY



Season
Greetings



Season's
meetings

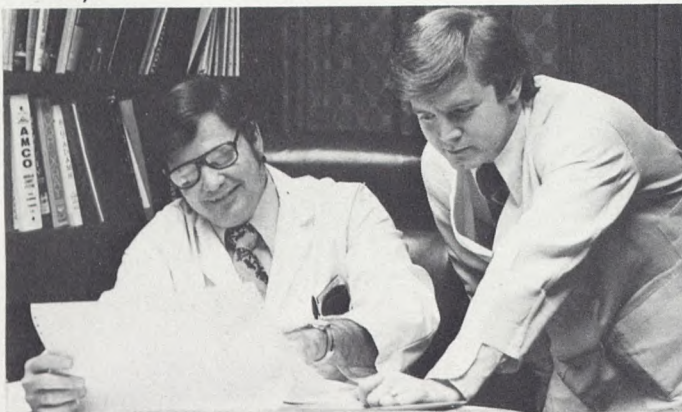
TECHNO INFO

CT Seminar

A Computed Tomography Seminar co-sponsored by the American Society of Radiologic Technologists and Mallinckrodt Institute of Radiology was attended by 75 technologists, from all parts of the United States, November 10-12 at the Chase-Park Plaza Hotel. Gary Brink, R.T., (ARRT) and Armand Diaz, R.N. R.T., (ARRT), FASRT, co-chaired the comprehensive, 2½ day course – the first to be offered for technologists.

Program speakers shared their expertise on the physics of reconstructive tomography, clinical and technical applications of this diagnostic modality, and the utilization and economics of head and body CT.

The Mallinckrodt Institute faculty included Drs. Ronald G. Evens, Mokhtar Gado, Gilbert Jost, Stuart Sagel, and Robert Stanley; John Eichling, Ph.D.; and technologists Gary Brink, Judy Cortner, and Leon Fridley.



Armand Diaz, R.N., R.T., (ARRT) FASRT and Gary Brink, R.T. (ARRT)

MALLINCKRODT TECHNOLOGISTS WIN IN STATE COMPETITIONS

Michael Ward, R.T., was awarded first place in the M.S.R.T. essay competition for his essay, "Computed Total Body Tomography" and Norman Hente, R.T., second place for "Photographing the Cathode-Ray Tube." Hente also received third place award for his exhibit, "Rapid Images From The CRT." The awards were presented at the 45th annual meeting of the Missouri Society of Radiologic Technologists, October 6-8 in Kansas City, Missouri.

Diaz Professional Lectureship



This year's Diaz Professional Education Lecture was presented by Warren Dixon, President of the Fourth District Missouri State Society, and Armand Diaz, R.N., R.T., FASRT.

James Ohnysty, R.T., FASRT, delivered the Fifth Annual Diaz Professional Lectureship, "Are We Failures As Radiographers?" on November 17 in Scarpellino Auditorium. Honored recently by his selection as

In Appreciation



Norman Hente, R.T., presents a token of appreciation to John Eichling, Ph.D., guest lecturer on "Comparison of CT Scanners" at the September meeting of the 4th District M.S.R.T.

Ship Draws Capacity Audience



presented by James Ohnysty, (right), a fellow of the ASTR and
fourth District, M.S.R.T., (left), Aona DeClue, President of the
RT.

the Jerman Memorial Lecturer for the 1977 ASRT convention, Mr. Ohnysty has actively worked to revise the "Essentials" for radiographers and to develop the new "Clinical Competency Evaluation."

preciation



After his October lecture, "Dental Radiology in Forensic Medicine", Roger Adams, D.M.D., discusses with the 4th District members the methods he uses to identify bite-marks in his role as Dental Consultant for the City and County Medical Examiners' Offices.

Pastoral Associate in Radiation Oncology

Offering another dimension in Radiation Oncology of help and concern with the quality of a patient's life is Sally Morse (Mrs. Richard K.), a part-time member of the Barnes Hospital Chaplain's staff. As a pastoral associate she visits with patients several mornings each week, hoping to help bring a person's faith into the healing process without forcing a religious agenda.

"I try to be sensitive to a patient's religious roots and needs, whether or not they are expressed in religious terms or not," explained Mrs. Morse. "My task is to understand and respond to an individual's particular need at a particular moment while remaining open to discussion of spiritual concerns, if the patient wants it."

A graduate of Wellesley College and Eden Seminary, Mrs. Morse was a member of the counseling staff of John Burroughs School from 1969 to 1974. She and her husband have three children. Her family has a long association with Barnes Hospital as Mrs. Morse's father, Dr. Drew Lutten, was named the first chief medical resident. Dr. Lutten was professor of clinical medicine at Washington University and a Barnes physician.



Mrs. Richard K. Morse

Norman Hente, R.T., presented "Problem Interface: X-Ray Photography" at the Biological Photographic Association, Inc., in Baltimore, Maryland, August 8-11.

A special 7th district has been formed for Radiation Therapy technologists, and plans are underway for a 1978 spring meeting. Dennis Umfleet, R.T., can provide further information.

Mallinckrodt Institute Hosts Volunteer Workshop

"The New Mallinckrodt Diagnosis and Therapy" was the topic of the Barnes Hospital volunteer workshop held October 14 in Scarpellino Auditorium.

Opening remarks by Robert E. Frank, president of the hospital, included an update on patient care programs and Thomas Winston, vice-president, gave a progress report on the West Pavilion project.

Dr. Ronald Evens, director of Mallinckrodt Institute, presented a brief history of radiology from the discovery of x-rays in 1895 to the present, including the current uses of computed tomography and nuclear medicine. He emphasized the responsibility of providing the best possible radiology services of the Institute to patients of Barnes Hospital.

Dr. William Mill discussed radiation oncology where X-ray machines, cobalt, linear accelerators, and betatrons are used in the treatment of cancerous tumors.

Dr. Robert Stanley gave an overview of computed tomography at Mallinckrodt, one of the three institutes in the world to receive the first whole body scanner and one of the first to use computed tomography for patient care. Dr. Stanley described

the Mallinckrodt and Barnes personnel who work with the scanners as "among the most highly qualified in the world."

Dr. Gaellan McIlmoyle discussed nuclear medicine and the waiting time involved in scanning a patient. For example, the liver spleen scan requires a waiting time of about 15 minutes after a patient is injected whereas a bone scan requires 3 to 4 hours waiting time.

Armand Diaz, technical administrator, coordinated tours of the clinical floors of the Institute, following the workshop.



City-Wide Radiology Conference

St. Louis, Missouri

1977-1978

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

DATE	TOPIC	LECTURER	CLINICAL PRESENTATIONS
1/9/78	Genitourinary Radiology	Dr. Bruce McClennan Associate Professor of Radiology Mallinckrodt Institute of Radiology	Proved Cases Mallinckrodt Institute Drs. Weyman & Moran
2/13/78	Recent Advances in Cardiovascular Nuclear Medicine	Dr. H. William Strauss Associate Professor of Radiology Harvard Medical School	Mallinckrodt Institute Nuclear Medicine Division
3/13/78	CT Scanning for Treatment Planning & Follow-up of Primary Brain Tumors	Dr. James F. Marks Associate Professor of Radiology Mallinckrodt Institute of Radiology	Mallinckrodt Institute Division of Radiation Oncology
4/10/78	Newer Aspects of Neuroradiology	Speaker to be Determined	Mallinckrodt Institute Section of Neuroradiology
5/8/78	Hematologic Bone Disease	Dr. Stanley S. Siegelman Professor and Chief of Diagnostic Radiology Johns Hopkins University School of Medicine	Mallinckrodt Institute Section of Musculoskeletal Radiology

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 13¢
Stamp
Here

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

fold

Visiting Fellows

Mallinckrodt Institute's visiting fellowship program offers individualized courses designed to afford practicing radiologists an opportunity to gain information about new techniques or improvements in old techniques by personally interacting with our staff of radiologists. There has been a nation-wide response to the on-going program directed by Dr. Louis A. Gilula. The following radiologists have participated since July, 1977.

ARTHOGRAPHY COURSE — Charles T. Faulkner, M.D., Nashville, TN, Richard Gordon, M.D., Pittsburgh, PA, Donald W. Minter, M.D., Natrona Heights, PA, James R. Morrison, M.D., Little Rock, AR.

CRANIAL COMPUTERIZED TOMOGRAPHY COURSE — P. Jahoon Ko, M.D., Morgantown, WV

COMPUTED TOMOGRAPHY OF ABDOMEN & THORAX — C. J. Baran, M.D., Bradenton, FL, Harvey Neiman, M.D., Chicago, IL, Milton Stratos, M.D., Bradenton, FL, Maurice Tamsky, M.D., Palm Springs, CA, Frank Winters, M.D., Decatur, IL, Charles Curtiss, M.D., Winter Haven, FL

COMBINED COURSE IN COMPUTERIZED TOMOGRAPHY — Edward Ahlmeyer, M.D., San Bernardino, CA, Martin Belanger, M.D., New Orleans, LA, Roger Baker, M.D., Harlingen, TX, Sam Baker, M.D., Evansville, IN, Lionel Barraza, M.D., Monroe, LA, Robert Beck, M.D., Evansville, IN, Gil Borlaza, M.D., Ann Arbor, MI, William Buss, M.D., San Bernardino, CA, Stephan Cooper, M.D., Des Moines, IA, John Cram, M.D., San Bernardino, CA, Rudolf deRaad, M.D., The NETHERLANDS, Robert Dimmett, M.D., Fort Pierce, FL, Timothy Gallagher, M.D., Asheville, NC, William Hutchinson, M.D., St. Louis, MO, William Keane, M.D., Nashville, TN, Richard Keogh, M.D., Edmonton, Alberta - CANADA, Robert Kinde, M.D., Appleton, WI, Michael Konowitz, M.D., Terre Haute, IN, Henry Lee, M.D., Kansas City, MO, T. Scott McCay, M.D., Jackson, MS, James Nelson, M.D., San Bernardino, CA, Harold Rapp, M.D., Cape Girardeau, MO, Carl Ritter, M.D., Cape Girardeau, MO, Robert Siren, M.D., Columbus, OH, William Smith, M.D., Paducah, KY, Charles Soucek, M.D., Kansas City, KA, Richard Stern, M.D., Fort Pierce, FL, Ronald Stupar, M.D., Wheeling, WV, Phillip Weaver, M.D., New Orleans, LA, Premall Gukhool, M.D., Liberty, MO.

ABDOMINAL ULTRASOUND COURSE — Charles Curtiss, M.D., Winter Haven, FL, Denzil J. Hawes-

Davis, M.D., Jefferson City, MO, Richard Johnson, M.D., Minot, ND.

NUCLEAR MEDICINE COURSE — Mario Nunez, M.D., Elk Grove, IL, Edgar Gipson, M.D., Alliance, OH

RADIATION ONCOLOGY COURSE — James Chen, M.D., Indianapolis, IN, Edwin Hoot, M.D., Monroe, LA, Woomyung Choe, M.D., Pittsfield, MA, Alan Stein, M.D., St. Louis, MO, Ahmad Sadeghi, M.D., Shiraz, Iran, Mary Lee, M.D., Columbia, MO.

MIR CALENDAR OF EVENTS

January 9, 1978

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

January 19, 1978

4th DISTRICT M.S.R.T. MEETING
"Computed Tomography for the Technologist"
DePaul Community Health Center, 8:00 P.M.

February 13, 1978

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

February 16, 1978

4th DISTRICT M.S.R.T. JOINT MEETING
With Illinois Society 11th District

March 13, 1978

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

March 16, 1978

4th DISTRICT M.S.R.T. MEETING
St. Joseph's Hospital of Kirkwood, 8:00 P.M.

April 10, 1978

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

April 9-14, 1978

AMERICAN COLLEGE OF RADIOLOGY
San Diego, California

April 20, 1978

4th DISTRICT M.S.R.T. MEETING
Missouri Baptist Hospital, 8:00 P.M.

April 30-May 4, 1978

SCARD/AUR
San Antonio, Texas

May 8, 1978

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

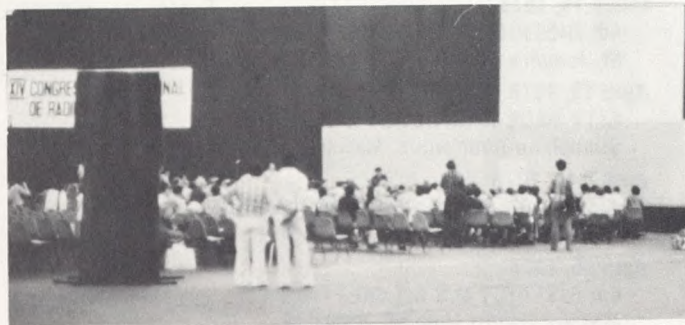
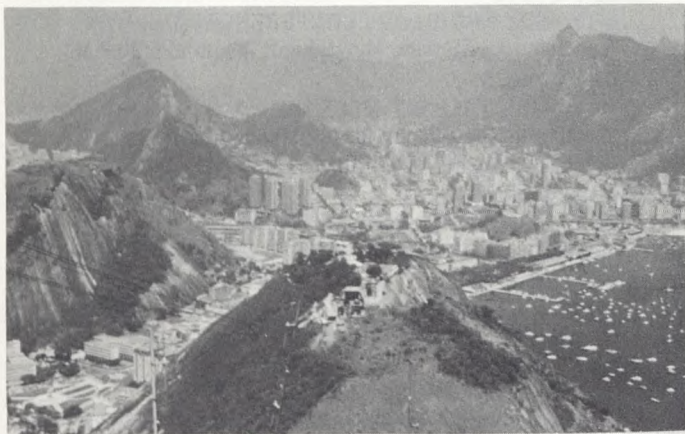
May 18, 1978

4th DISTRICT M.S.R.T. MEETING
Cardinal Glennon Memorial Hospital, 8:00 P.M.

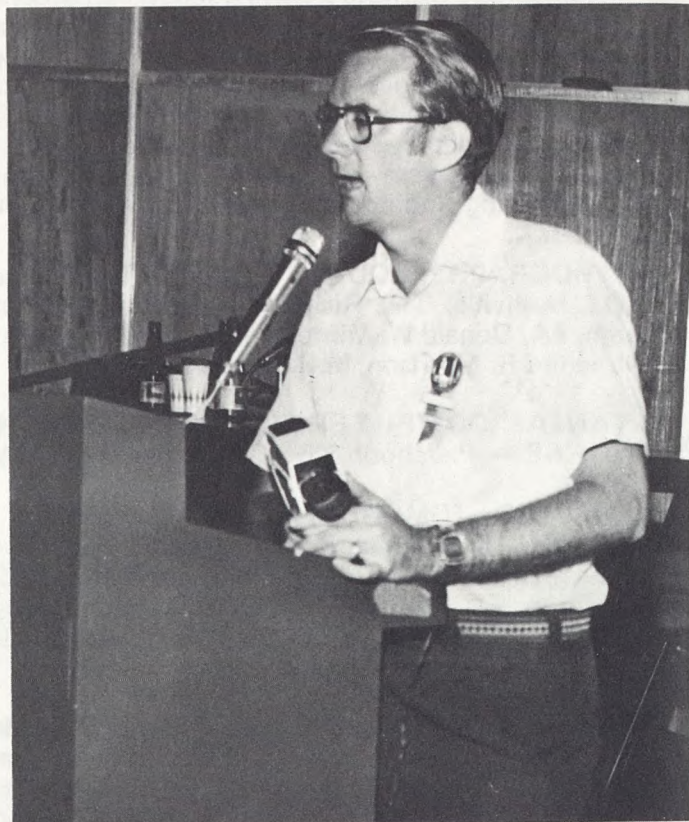
Seeing South America

On October 20, 1977, members of the Mallinckrodt staff and spouses gathered at the Lambert-St. Louis International Airport, dressed out of season for the early fall freeze they were leaving. In general, the group had prepared themselves mentally for the warm spring weather and tropical climate of Rio de Janeiro, Brazil, site of the XIV International Congress of Radiology and extended visits in the Southern Hemisphere.

Attended by 8,000 radiologists from all over the world, and located in the International Center of Fairs and Exhibitions, the Congress included a balance of scientific activities with technical exhibits of sophisticated, useful equipment currently available in the field of radiology.



Dr. Ronald Evens shared his expertise in the utilization of computed tomography by presenting two lectures, "Data Compression for Computed Tomography" (Hill, Yost, Evens) and "The Clinical Efficacy and Utility of Computed Tomography", in which he defined a typical CT installation and discussed significant variances throughout the United States including utilization, cost, revenues, and efficacy. Dr. Juan Taveras, Radiologist-in-Chief of Massa-



Dr. Ronald G. Evens

achusetts General Hospital and former Director of Mallinckrodt Institute, chaired the panel discussion. The lectures were translated into several foreign languages for the audience by short range walkie-talkies and evoked interesting questions and comments from the conference attendees.



Dr. and Mrs. Richard Graviss, Dr. and Mrs. Gene Davis, Dr. and Mrs. William Murphy, Dr. Emily Smith, Dr. and Mrs. Stuart Sagel.

In their leisure time some of the radiologists and their families decided to see "Wonderful Rio", a metropolis of seven million "Cariocas" (as the natives are called) who tend to be casual about life and seek out the pleasures rather than the responsibilities. The group had ample opportunity to "brush up their Portuguese", in conversing with the reckless taxi drivers (who know no laws except their own). The traffic can get out of hand and a pedestrian has cause for alarm.

Rio is a city of contrasts; mountains and famous beaches such as the plush Copacabana and Ipanema; mud and bamboo huts devoid of water and electricity, clinging precariously to the sides of the mountain peaks and futuristic architecture; the whites of the clothing and buildings and the colors of tropical flowers and fruits. The pulsating city is built around Guanabara Bay and the Atlantic Ocean just south of the bay.



The almost vertical Sugar Loaf Mountain zooms right up from the sea to a point of 1,325 feet. Reached via two cable cars, the summit offers an unforgettable view of the dramatic crescent of land nestled in the blue Guanabara Bay.



Enjoying the view from Sugar Loaf Mountain.



Corcovado (Hunchback) Mountain in the middle of the city is crowned by the famous 120-foot high concrete and granite statue of Christ the Redeemer whose outstretched arms welcome visitors to Rio. Visible from all areas, the statue stands 2,400 feet above sea level, and is to Rio as the Eiffel Tower is to Paris. Boasting some of the world's finest soccer players, Rio's Maracana Stadium holds a mere 200,000 spectators.



SEEING SOUTH AMERICA



Cariocas dine late. Hard to avoid is cafezinho (small cups of thick black Brazilian coffee served with great quantities of sugar). Beef dishes are a mainstay of the diet, just as they are in Argentina. Having visited Rio at other times, Armand Diaz gave us some idea of what to expect in typical Brazilian (Bahian) food such as "feyoada", a mixed platter of pork and sausage, and black beans served over white rice, and an abundance of delicious seafood and fruits.

The backdrop for Rio's life beat is the hypnotic rhythm of the samba and during a memorable week in Rio, one visitor called it "samba frenzy". The pace is fast and loud (we were guests at a mini-Carnival where the decibel level of the Samba show was just shy of pain). Carnival in Rio is a festival for three days and nights preceding Ash Wednesday where there is singing, dancing, and parading everywhere in town.

And so goodbye to Rio and members of our group continue by jet to Buenos Aires, Argentina, or to Lima, Peru as their agenda dictates.

Buenos Aires, the most cosmopolitan city in South America with the tallest skyscrapers, this prosperous metropolis has a population of eight million people and the widest avenue in the world (Avenida Nueve de Julio). It is a compact city, laid out on a grid, and a lively business city where coats and ties are standard attire. With tree-lined sidewalks and dozens of parks,

Buenos Aires is often called the "Paris of South America". One couldn't shake the feeling that one was in Europe as Europe was seen in the faces of the people (the majority of Argentines trace their ancestry to Italy, Spain, Germany, or the British Isles). Its citizens, known as porteños (of the port) live in palatial homes and modern apartments and they, as well as visitors, enjoy a shopper's paradise for fine leathers and woolen goods. The business day is from 7 A.M. to 7 P.M. (no siesta here).

Though squeezed by world record inflation — the exchange rate at the time of our visit was 500 pesos to one U.S. dollar — the average Argentine still eats well. The star of the Argentine dinner table is the steak. Meat in this land is as plentiful as the great herds of angus and herefords that graze on the huge expanses of flat, fertile farmland known as the pampas.

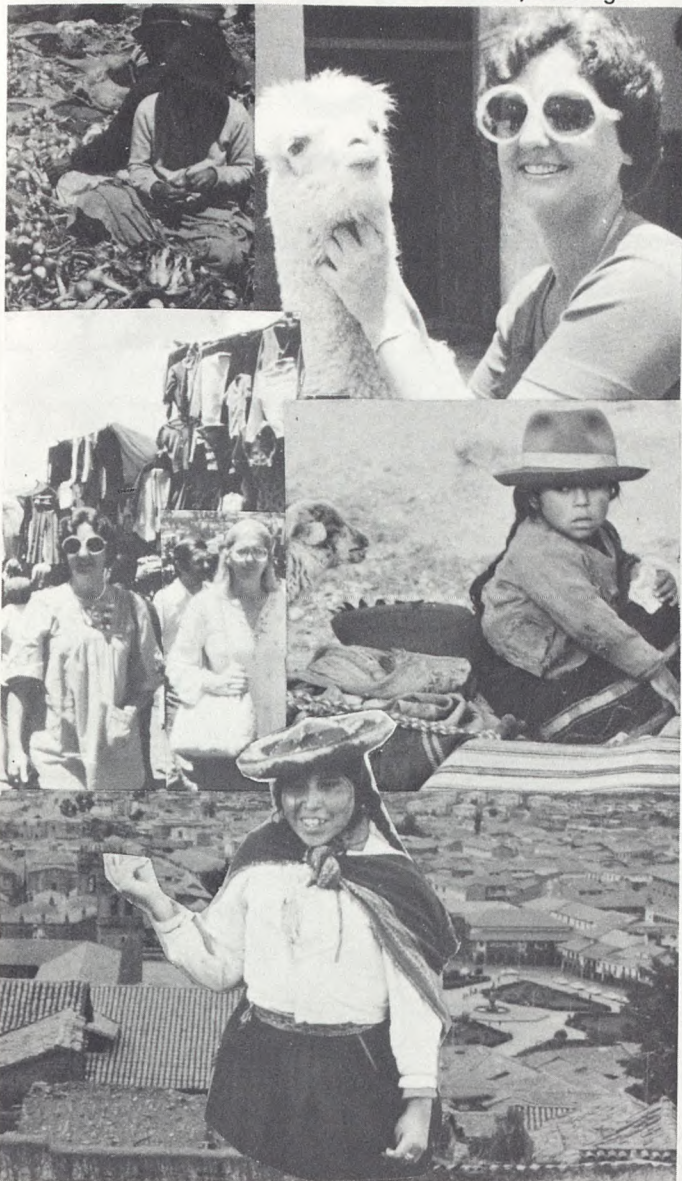
Continuing our visit to South America, Lima, Peru's capital of more than 1.7 million inhabitants, seemed more Spanish than Indian. The "City of Kings", as it is called, still retains its rich colonial character as amid new skyscrapers exist Spanish reminders of aristocracy such as the glorious baroque churches and the impressive Government Palace.

From Lima, we took a short jet flight across the Andes to Cuzco. Going from sea level to 12,000 feet above was quite a shock to the equilibrium and necessitated our walking slowly from place to place, eating lightly, and resting upon arrival. Tales of this gold-laden capital of the Incan Empire impassioned Pizarro, the Spanish conquerer, to lead 200 conquistadors into a nation of six million Indians in



Mr. and Mrs. William Trent and Dr. and Mrs. Norman Shippey enjoy an evening together at LA CABANA.

search of riches. High in the Andes the red-tile roofs of the adobe houses glisten in the sunshine and brightly ponchoed Indians lead llamas over narrow, cobblestone streets and hold their open market in the city square just as they did hundreds of years ago.



Yet the most breathtaking experience lies deeper in the rugged Andes. A fascinating train ride through the Urubamba River Valley brought us to Machu Picchu, the lost city of the Incas, and the most spectacular remains of the ancient Incan Empire. Until 1911, when a young Yale professor, Hiram Bingham, hacked it out of vegetation, not a living soul knew where it was. Precisely fitted stone masonry is one of

the most astounding feats of the architecture. How the Incas, the "Children of the Sun", without the use of the wheel or metal tools, constructed a city of stone blocks weighing hundreds of tons is a mystery rivaling the pyramids. There's not even space to fit a credit card between the massive blocks.



Continuing our journey, we found our last stop, Quito, the capital of Ecuador, to be one of South America's most interesting cities. Blessed with an exhilarating spring-like climate, Quito is a city for walking. There is the feeling of the 16th century in the white-washed walls and Spanish architecture and shopping is great. In Ecuador, the largest banana exporting country in the world, passing through the lush countryside of cocoa and coffee plantations, one can tiptoe on the Equator and stand with one foot in each hemisphere.



Well, we had heard about South America all of our lives, but can only say that we were never really prepared for its incredible sights.

Drs. William Murphy, Emily Smith, and Stuart Sagel, Photographers

MIR
Christmas Party

Queeny Tower Pool
18th Floor

December 21, 1977
4 - 7 P.M.



FOCAL SPOT 

Published quarterly by the Public Relations Department for staff, students, and friends of Mallinckrodt Institute of Radiology, 510 South Kingshighway, St. Louis, Mo. 63110



Virginia R. Trent
Editor & Writer



Deen Getz
Graphic Art



Norm Hente
Photographer



Tom Murry
Photographer

Return Address
Public Relations Department
Mallinckrodt Institute of Radiology
510 South Kingshighway
St. Louis, Missouri 63110

Non-Profit Organization
U.S. Postage
PAID
St. Louis, Missouri
Permit No. 1032

Address Correction
Requested