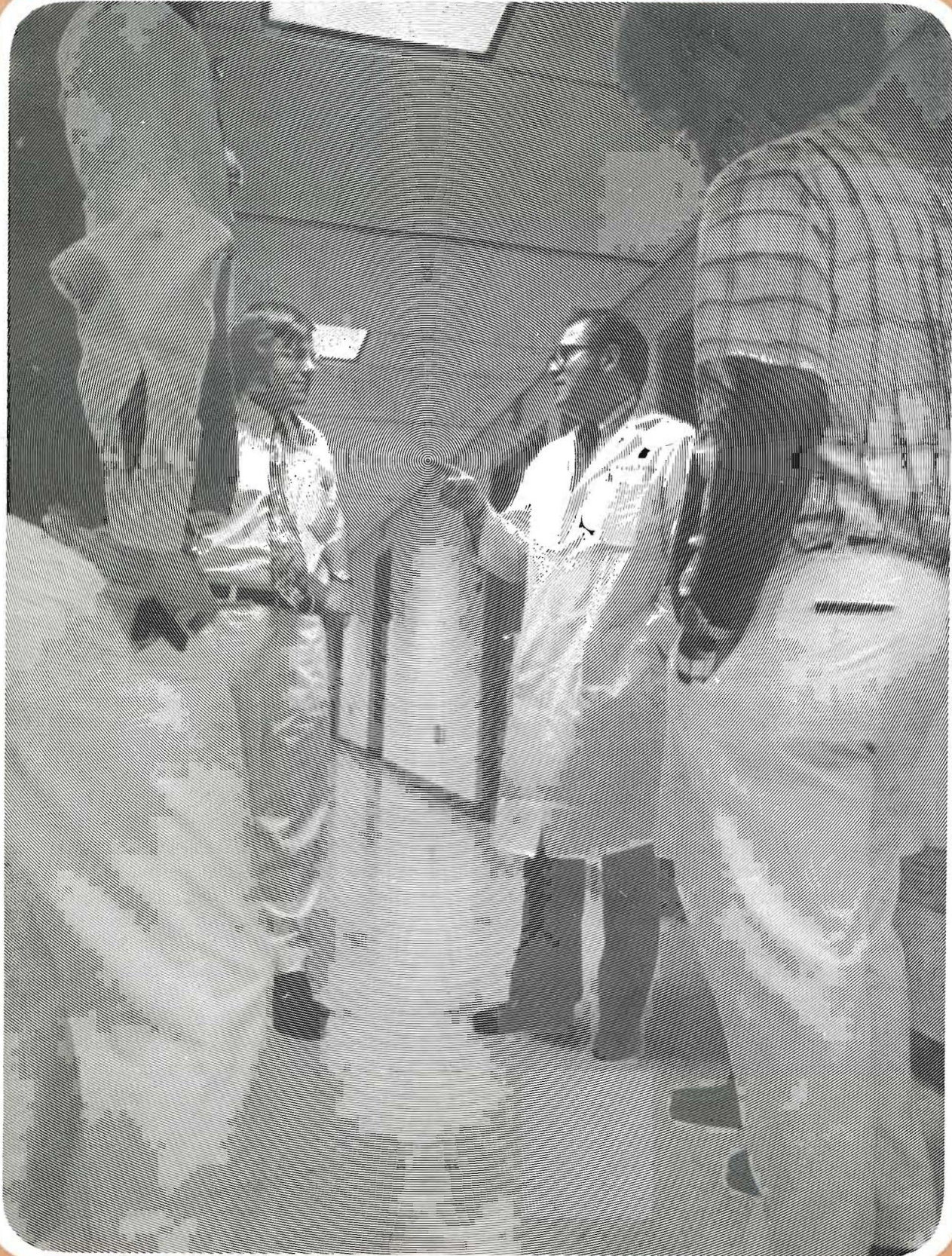


V. 12 #

# OUTLOOK





## The Vice Chancellor Comments

Some recent data concerning Washington University Medical Center may be of interest to the readers of *OUTLOOK*.

In the current academic year, 541 students are enrolled in the Medical School (including 47 in the Medical Scientist Training Program), an increase of more than 65 percent since 1966-67, when 327 students were enrolled. There has been a corresponding increase in the number of candidates for the M.D. degree: 76 in 1967 and 127 this year.

Forty-eight states and six foreign countries are represented in the student body. Nearly a fifth of our medical students (105) are women.

There are 166 candidates for the Ph.D. degree, 47 working for a combined M.D.-Ph.D. degree, as already noted, and 119 for the Ph.D. alone, through the Division of Biology and Biomedical Sciences.

Among the 710 postdoctoral students are 96 interns, 425 residents and 189 fellows and trainees.

Finally, there are 211 students in various paramedical fields, including Health Care Administration, Occupational Therapy, Physical Therapy, Pe-

diatric Nurse Practitioner, and X-ray Technology.

Thus, nearly 1,600 students are enrolled in the Medical School for this academic year. A complete picture of the educational activity in the Medical Center, however, should include the approximately 600 student nurses enrolled in the Schools of Nursing at Barnes and Jewish Hospitals, the more than 250 students in the School of Dental Medicine, the 67 students in the Central Institute for the Deaf, the 730 students in the St. Louis College of Pharmacy, and an undetermined number of students from many programs within and without the University who use the facilities of the Medical Center for various specialized educational experiences.

Altogether, more than 3,200 students, at many levels, are being educated and trained, and most indicators suggest that this number will continue to increase in the next few years. The conclusion is clear: the Medical Center and related institutions constitute a major educational enterprise—comparable in size to many colleges, but much more varied and complex.

*Samuel B. Guze, M.D.*

**Vice Chancellor for Medical Affairs**

# OUTLOOK

Washington University School of Medicine

Winter, 1975

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## ON THE COVER

Rounds with interns and residents is one of the enjoyable challenges David M. Kipnis, M.D., faces as Busch Professor and head of the Department of Medicine and Barnes Hospital physician-in-chief. Dr. Kipnis expands on some of his other activities on page 4.

## BACK COVER

A guinea pig heart is kept viable to study its response to drugs in the laboratory of Philip D. Henry, M.D., assistant professor of medicine, who is participating in the newly established Heart Specialized Center of Research. See story on page 10.

# After Two Years, the Chairman Reflects

*David M. Kipnis, M.D., was appointed Busch Professor and head of the Department of Medicine in December, 1972. He succeeded the late Carl V. Moore, M.D., who had held the position since 1955.*

*Dr. Moore, an expert in the field of hematology, was a 1932 graduate of the School of Medicine and member of the faculty for more than 30 years. He served as dean of the school from 1954 to 1955, and was the first vice chancellor for medical affairs from 1964 to 1965.*

*Dr. Kipnis, the present physician-in-chief of Barnes Hospital, is a recognized authority on endocrinology and diabetes. He is the first person to receive both the American Diabetes Association's Lilly Award and the Endocrine Society Ernest Oppenheimer Award the same year (1967). The Lilly Award recognized his contribution to the understanding of intracellular transport and metabolism of glucose, insulin and growth hormone. The Oppenheimer Award honored his "meritorious achievement in clinical endocrinology."*

*His most recent honor was election to fellowship in the American Academy of Arts and Sciences.*

*The 47-year-old physician is a native of Baltimore, Md. He received the A.B. degree in 1945 and the M.A. degree in 1949 from Johns Hopkins University.*

*In 1951, he earned the M.D. degree summa cum laude from the University of Maryland School of Medicine where he was elected to Alpha Omega Alpha, national medical honorary, and Sigma Xi, scientific research society.*

*After training at Johns Hopkins University, Duke University and the University of Maryland Hospital, Dr. Kipnis came to Washington University on an American College of Physicians Research Scholarship. He was appointed a John and Mary Markle Scholar in Medical Science from 1956-1961. He was promoted to professor of medicine in 1965.*

*Dr. Kipnis is editor of Diabetes, and on the editorial board of the American Journal of The Medical Sciences.*





David M. Kipnis, M.D., wears multiple hats—academic, clinical and administrative. As Busch Professor and head of the Department of Medicine at Washington University School of Medicine, he feels he must not only maintain the high standards of excellence that have been established in research and education here, but must foster their continued growth and development.

As physician-in-chief of Barnes Hospital, he is responsible for a professional staff that must meet the needs of more than one-third of the patients in the Medical Center and for maintaining a house staff training program which competes successfully for the outstanding graduates of American medical schools.

"My challenges at present are many, and the difficulty lies in establishing appropriate priorities. Two major issues which immediately come to mind are:

1) How to maintain our current research and training programs and take advantage of recent advances made in the biomedical sciences by fostering the growth and development of new research and training areas at a time when the economic situation in this country is imposing several fiscal constraints on these activities, and

2) How to develop the appropriate resources within the Medical Center to respond to the new and extensive demands for health services currently being made by society and which will undoubtedly be even greater with the passage of anticipated new federal health legislation."

Medicine is the largest department in the school. It is comprised of 12 divisions plus services at Jewish, City and Veterans Administration hospitals, a full-time faculty of approximately 90, more than 150 part-time physicians, 80 house staff officers (plus the house staff of 36 at Jewish Hospital), 90 post-doctoral fellows and over 200 non-academic personnel.

As chairman, Dr. Kipnis has immediate goals for improving, expanding and developing in greater depth, the teaching and research activities of the department. He is particularly pleased with the following developments:

One division that has undergone extensive changes in the past two years is Cardiovascular Diseases. "I was pleased when Dr. Sobel<sup>1</sup> agreed to join our staff from the University of California, San Diego. He brought with him some extraordinarily talented young investigators. In the short time since his arrival, this division has established one of the most exciting research programs in cardiovascular diseases in the country, has been awarded an NIH SCOR program in Ischemic Heart Disease (see page 10), has markedly improved the quality of instruction in clinical cardiology for medical students and house staff, and has provided clinical resources for patients that are equal to the best available in the country.

"A new Division of Oncology has been formed under

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**"... immediate goals for improving, expanding and developing in greater depth, the teaching and research activities of the department."**

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the direction of Dr. Kornfeld,<sup>2</sup> a world authority on the structure of cell membranes. He has recruited several new faculty members to study new forms of cancer treatment as well as improve established methods of chemotherapy. At Jewish Hospital, Drs. Present,<sup>3</sup> Berger,<sup>4</sup> and Graff<sup>5</sup> are working on a program of cancer treatment which uses new combinations of drugs as well as radiation therapy and immunotherapy. Geoffrey P. Herzig, M.D., currently at the NIH, will be joining the division in July to establish

1. Burton E. Sobel, M.D., associate professor of medicine.

2. Stuart A. Kornfeld, M.D., professor of medicine and assistant professor of biological chemistry.

3. Cary A. Present, M.D., assistant professor of medicine.

4. Nathan A. Berger, M.D., assistant professor of medicine.

5. Ralph J. Graff, M.D., assistant professor of clinical surgery and of microbiology.



a bone marrow transplant and white cell transfusion program.

"A Diabetes Center supported by the NIH has just been established and will be directed by Dr. Daughaday.<sup>6</sup> It involves the participation of six other departments within the medical school and is only one of four such centers in the country. Its research program is broad in scope and extends from basic molecular mechanisms of insulin synthesis and secretion to the most pragmatic clinical issues of dietary education of the diabetic and his family.

"A Lipid Research Center, established under the direction of Dr. Schonfeld<sup>7</sup> is one of 12 such centers in the country. Its research program deals with elucidating the mechanisms underlying the development of lipid disorders and a long-term intervention trial with cholesterol-lowering agents to assess their effectiveness in the prevention of myocardial infarction in certain high-risk populations.

"In clinical immunology, Dr. Parker<sup>8</sup> has made impressive advances in defining the molecular events involved in immune cellular responses to antigenic stimuli. He has also established an Asthma Clinical Center concerned with elucidating the pathogenic mechanisms of asthma and developing specific therapeutic regimens for the treatment of this common disorder.

"Dr. Avioli,<sup>9</sup> through his research on mineral homeostasis and hormonal control of bone metabolism, has brought international attention to the Bone Disease Center at Jewish Hospital.

"A comprehensive program to improve the diagnosis and treatment of serious fungus infections has been imple-

6. William H. Daughaday, M.D., professor of medicine and co-chairman of the Department of Medicine.

7. Gustav Schonfeld, M.D., associate professor of medicine and associate professor of preventive medicine.

8. Charles W. Parker, M.D., professor of medicine and associate professor of microbiology.

9. Louis V. Avioli, M.D., Sydney M. and Stella H. Shoenberg Professor of Medicine.

mented in Infectious Diseases by Drs. Medoff,<sup>10</sup> Kobayashi<sup>11</sup> and Little.<sup>12</sup> Their work has also led to new concepts of how to increase the effectiveness of cancer chemotherapeutic agents, and their work is now supported by a program project grant from the NIH and also involves the Departments of Pathology, Microbiology and Radiology.

"For the immediate future I'm anxious to see research and training programs developed in the areas of clinical pharmacology and hypertension.

"During the past two years the department has focused considerable energy on improving our efforts in instruction

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**"This in-depth kind of education involves extensive participation of private practicing physicians."**

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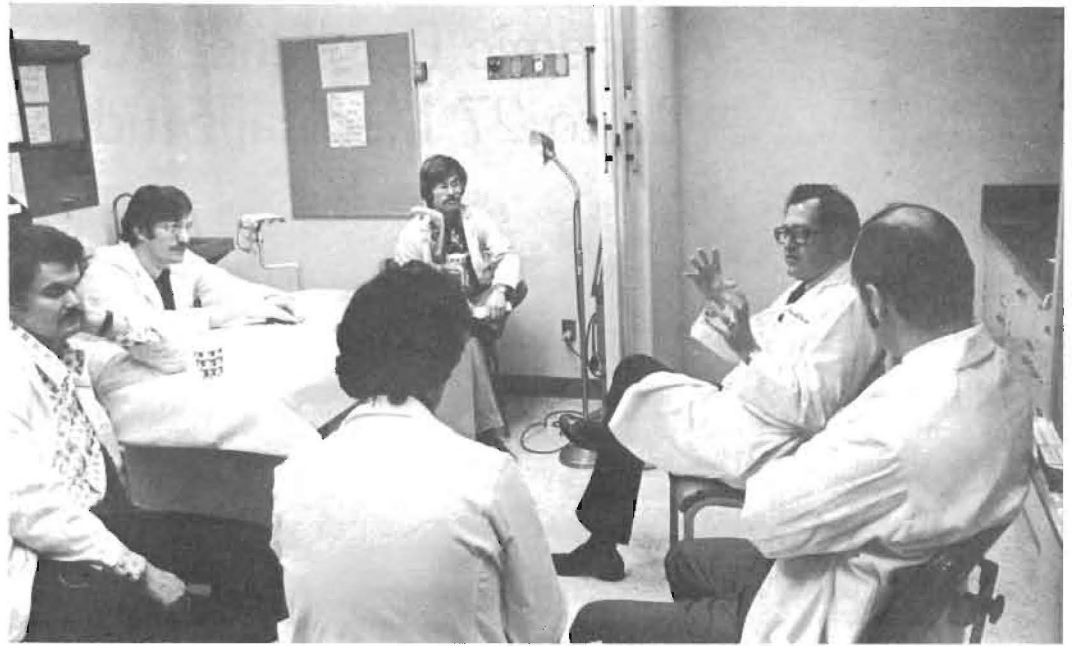
for both the medical student and house staff. For example: *The Introduction to Clinical Medicine* course for our sophomore class has been completely revised and upgraded under the direction of Dr. Tuteur.<sup>13</sup> He has attempted first to develop basic interview and physical examination skills using modern audio-visual techniques. The students are then exposed to frequent clinical experiences where they refine their techniques by interacting with patients in the hospital. This in-depth kind of education involves extensive participation of private practicing physicians. The active involvement of skilled and dedicated part-time faculty is essential to our educational programs. Their intimate participating relationship with the full-time medi-

10. Gerald Medoff, M.D., associate professor of medicine and assistant professor of microbiology.

11. George S. Kobayashi, Ph.D., associate professor of medicine and assistant professor of microbiology.

12. J. Russell Little, Jr., M.D., professor of medicine and associate professor of microbiology.

13. Peter G. Tuteur, M.D., assistant professor of medicine.



cal faculty, house staff and medical students is one of the features which makes our Medical Center unique.

"During the past two years a significant portion of my time has been spent in establishing a solid fiscal basis for the activities of the department. As is the case with most private medical institutions, we are highly dependent upon federal funds, primarily derived from the National Institutes of Health, for faculty and research support. Despite the fact that these funds have been severely limited in recent years, our department's annual research budget has increased greater than 35 per cent reflecting the outstanding research reputation of our medical faculty. Nevertheless, I think it is imperative that we broaden the scope of support primarily in the private sector. Frankly, it is rather shocking to recognize that the Department of Medicine, with such an illustrious faculty, both past and present, has had only three endowed chairs given to the department in the past 60 years. I believe this rather poor showing reflects the failure on the part of our faculty and administration to bring to the attention of the private sector the outstanding contributions which the department has made. The department has had, and hopefully will continue to have, an impact on all areas of medicine not just locally, but nationally and internationally. In this context, one of the goals of the department is to engender endowment support for each of its divisions.

"Space is a critical problem. Our clinical facilities are extremely limited and, quite frankly, we have great difficulty in delivering the kinds of services which we feel a medical center of this rank should have available. In addition, our research and teaching activities are severely constrained by limited laboratory and teaching space. We have acquired some area on a floor of the McDonnell Medical Sciences Building for the divisions of Hematology, Oncology and Immunology. This, for the time being, has relieved some of the pressure. However, I believe that the physical split of our department necessitated by moving certain divisions to the McDonnell building will ultimately

have a divisive effect on the department since intimate, inter-divisional collaboration is essential for long-term academic growth and development.

"Since there is no foreseeable space available for out-patients, laboratories or offices, I am most anxious that the construction of a Clinical Science Building be established as one of the major priorities in the Medical Center. Such a building would provide adequate space not only for the Department of Medicine but also other clinical departments, especially Surgery, Psychiatry and Pathology which are desperately in need of added facilities."

As for personal goals, Dr. Kipnis said, "I entered

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**"I am most anxious that the construction of a Clinical Science Building be established as one of the major priorities of the Medical Center."**

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academic medicine because I thought it afforded me a unique opportunity to merge science and clinical service. I have not been disappointed in the career satisfactions that academic medicine has provided me. I have been exhilarated by many (but not all) of the challenges presented me as chairman of a department of medicine and as a physician-in-chief of a hospital. But in all candor, I am becoming increasingly concerned about the lack of time for the personal pursuit of research and scholarship. I think it is absolutely essential for a department chairman to remain an active academician, for the failure to do so will not augur well for the academic standards he will establish for his department."

In the past two years as department chairman, Dr. Kipnis has laid a foundation for a dynamic future in medicine. His personal and professional goals are not unlike his multiple roles at the Medical Center: they frequently overlap for the benefit of the community.

# Academic Excellence Awards Go to 27 Medical Students

Twenty-seven students at Washington University School of Medicine were honored December 12 for scholastic excellence in the 1973-74 academic year.

Awardees from the St. Louis area and their honors are:

Vicki L. Altmeyer—Ciba Book Award for laudable extracurricular community service;

John F. AufderHeide—a Lange Medical Publications Book Award for high academic standing during the sophomore year;

John Schier—an Antoinette Frances Dames Prize in Physiology and Biophysics, \$100 for superiority in these fields;

Beverly J. Shaheen—a McCordock Book Prize in Pathology for general excellence in the field during the sophomore year;

Barry A. Siegfried—Louis and Dorothy Kovitz Fellowship in Surgical Research for superior scholarship in the field;

Others honored were:

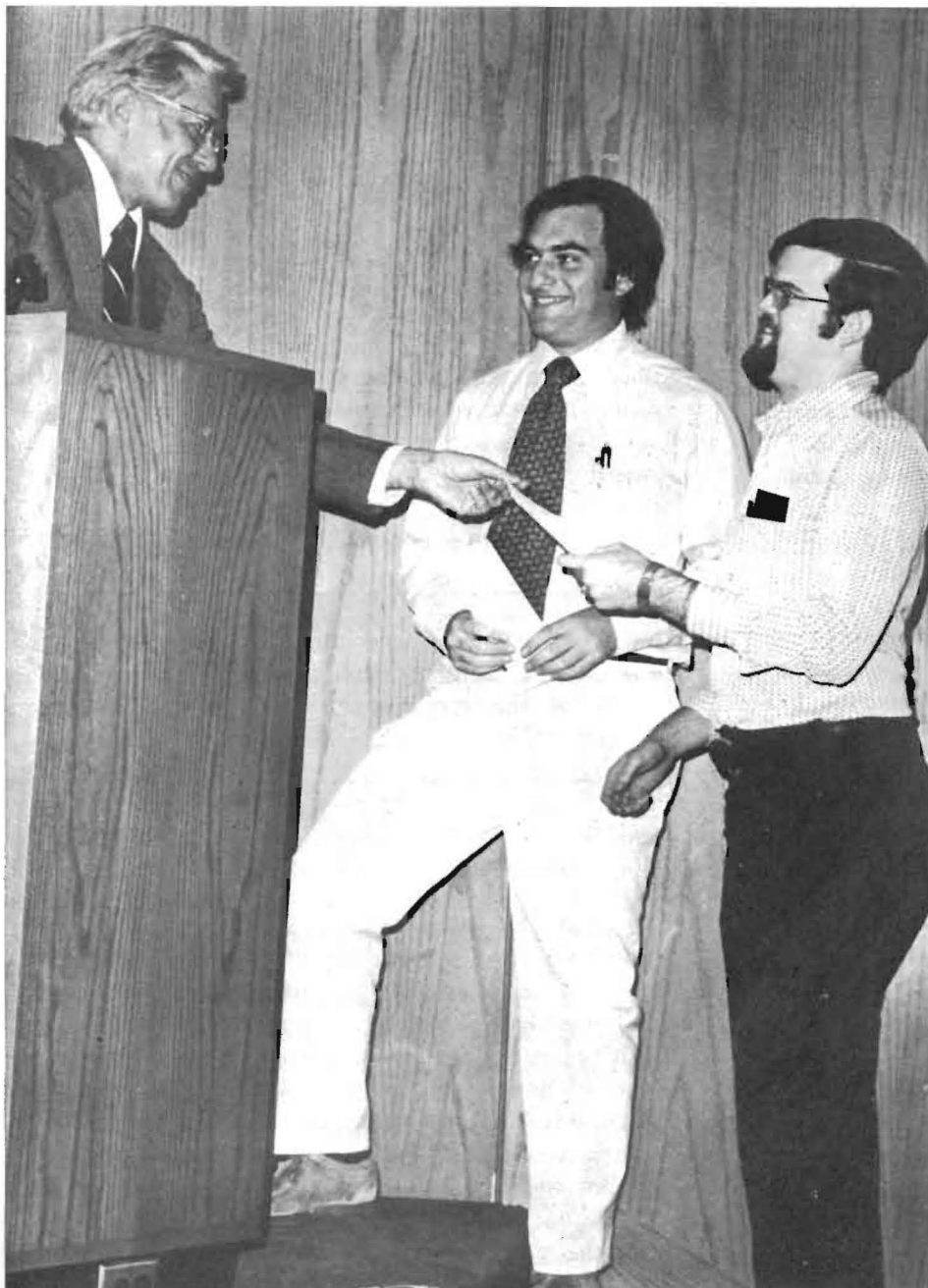
Scott Bartlett, Ogden, Utah—Dr. Richard S. Brookings Medical School Prize, \$250 for meritorious performance during the junior year;

Robert Black, Short Hills, N.J., and Robert J. Flaherty, Detroit, Mich.—Medical Alumni Scholarship Fund Prize, \$200 each for scholastic excellence;

Paul V. Carlile, Jr., Sallisaw, Okla.—Brookings Prize, \$200 for meritorious performance during the sophomore year;

Caroline Eggerding, Red Bud, Ill.—a Carl F. and Gerty T. Cori Prize in Biochemistry, \$100 for superiority in the field;

Diane L. Elliot, Salem, Ore.—Dr. Margaret G. Smith Award for out-



Donald H. Finger, M.D., president of the Medical Center Alumni Association, presents \$200 Medical Alumni Scholarship Fund Prizes to Robert Black and Robert Flaherty.



standing achievement by a female student during the first two years of medical school;

Colleen K. Flint, San Diego, Calif.—a Dr. Robert Carter Medical School Prize, \$200 for meritorious performance during the sophomore year;

Mitchell P. Fink, San Rafael, Calif.—a Carter Prize, \$100 for meritorious performance during the freshman year;

Kenneth L. Gammon, Raleigh, N.C., Deborah J. Gersell, Dearborn, Mich., Daniel L. Gleason, Portland, Ore. and Paul I. Rubinfeld, Millburn, N.J.—Lange Medical Publications Book Awards for scholastic excellence.

Glenn S. Gollobin, Teaneck, N.J.—a Brookings Prize, \$100 for meritorious performance during the freshman year;

Jacqueline A. Krohn, Los Alamos, N.M., and Laurence E. Stempel,

Northbrook, Ill.—McCordock Book Prizes for excellence in pathology during the sophomore year;

Barry A. Mills, Lawrence, Mass.—a Carter Prize, \$250 for meritorious performance during the junior year;

Joseph F. Pasternak, Des Moines, Iowa—Roche Award, gold wrist watch and scroll for the student who best

Mary M. Treese, Newton Centre, Mass., a senior medical student, has been awarded a Rock Sleyster Memorial Scholarship.

She received the \$2,000 award from the American Medical Association's Education in Research Foundation. The scholarship is one of 12 granted annually for the study of psychiatry.

exemplifies the ideals of the modern American physician;

Edward S. Paxton, Evanston, Ill.—Edmund V. Cowdry Prize in Histology, \$100 for outstanding performance in microscopic anatomy;

Eugene C. Rich, Gulfport, Miss.—Chouke Prize in Anatomy, \$50 for superior scholarship in the field;

James W. Steger, Bay Village, Ohio—Gill Prize in Anatomy, \$50 for outstanding anatomical work;

Richard F. Williams, Mt. Vernon, Mo.—a Carl F. and Gerty T. Cori Prize in Biochemistry, \$100, and an Antoinette Frances Dames Prize in Physiology and Biophysics, \$100;

Scott W. Younkin, Springfield, Ill.—a Cori Prize and a Lange Medical Publications Book Award.



Award recipients were from left, standing, Eugene C. Rich, Daniel L. Gleason, Laurence E. Stempel, E. Scott Paxton, Kenneth L. Gammon, John F. AufderHeide, Scott W. Younkin, John J. Schier, Robert J. Flaherty, James W. Steger, Robert Black, Richard F. Williams and Paul I. Rubinfeld. Seated, Mitchell P. Fink, Glenn S. Gollobin,

Barry A. Mills, Diane L. Elliot, Vicki L. Altmeyer, Caroline Eggerding, Deborah J. Gersell, Beverly J. Shaheen, Colleen K. Flint, Paul V. Carlile, Jr., and Scott P. Bartlett. Also honored but not pictured were Jacqueline A. Krohn, Joseph F. Pasternak and Barry A. Siegfried.

# Heart Specialized Center of Research

## Established With \$5 Million NHLI Grant

The National Heart and Lung Institute has approved a five-year grant of approximately \$5 million for heart disease research at Washington University School of Medicine.

Burton E. Sobel, M.D., associate professor of medicine and director of the cardiovascular division, is principal investigator of a newly established Specialized Center of Research (SCOR) funded by the grant. The St. Louis Center, one of seven in the nation, will concentrate on studies of ischemic heart disease (inadequate blood circulation in the heart due to obstruction of the arteries) which is a major cause of heart attacks.

The grant provides funding for more than 20 scientists working in five core facilities and on 11 individual, but integrated, research projects.

SCOR investigators include cardiologists, pathologists, pharmacologists, mathematicians, radiologists, surgeons, computer scientists and physicists.

"The concept of the program," Dr. Sobel explained, "is to bring together specialists in different areas to focus on one problem—heart attacks."

Each year cardiac disease kills more than 750,000 people in the United States. SCOR investigators will seek ways of lowering that number through improved methods of detection and treatment of the disease and the resulting damage.

Dr. Sobel emphasized that the core facilities are fundamental to the project. "They integrate the activity of the program. This sharing of staff and facilities minimizes cost and duplication while encouraging collaboration and rapid dissemination of effective experimental techniques among SCOR participants. The cores should help to make it possible for investigators to accomplish more than they could individually," Dr. Sobel said.

The core facilities include a clinical unit, experimental animal and pathology laboratories, a data processing facility and administration.

In the clinical core, patients with heart damage will be carefully monitored in a Cardiac Care Unit (CCU). Researchers will evaluate data obtained with techniques utilizing compounds which emit radiation that can be detected externally. These radioactive isotopes are used to delineate and characterize internal organs. In addition, ultrasonic equipment will be used in which sound waves are reflected from living tissue and analyzed to define anatomical structures. A third diagnostic procedure available is biochemical testing on blood to predict heart damage. "The overriding consideration for all patients in the CCU is optimal care," said Dr. Sobel. "Often, research procedures increase our ability to serve individual patients effectively."

Investigators in this core are: Dr. Sobel and Robert Roberts, M.D., assistant professor of medicine, from the cardiovascular division; Philip O. Alderson, M.D., and Ralph E. Coleman, M.D., instructors in radiology; and H. D. Ambos, Biomedical Computer



Burton E. Sobel, M.D.

Laboratory (BCL) research assistant.

The experimental animal core furnishes housing and surgical facilities, and is important because it maintains animal models in common used by many investigators.

Investigators: Philip D. Henry, M.D., assistant professor of medicine; and Richard E. Clark, M.D., associate professor of surgery and of biomedical engineering.

The pathology core provides for the study of tissues prepared from experimental animals or obtained in routine postmortem examinations.

Investigator: Joseph R. Williamson, M.D., associate professor of pathology and of anatomy.

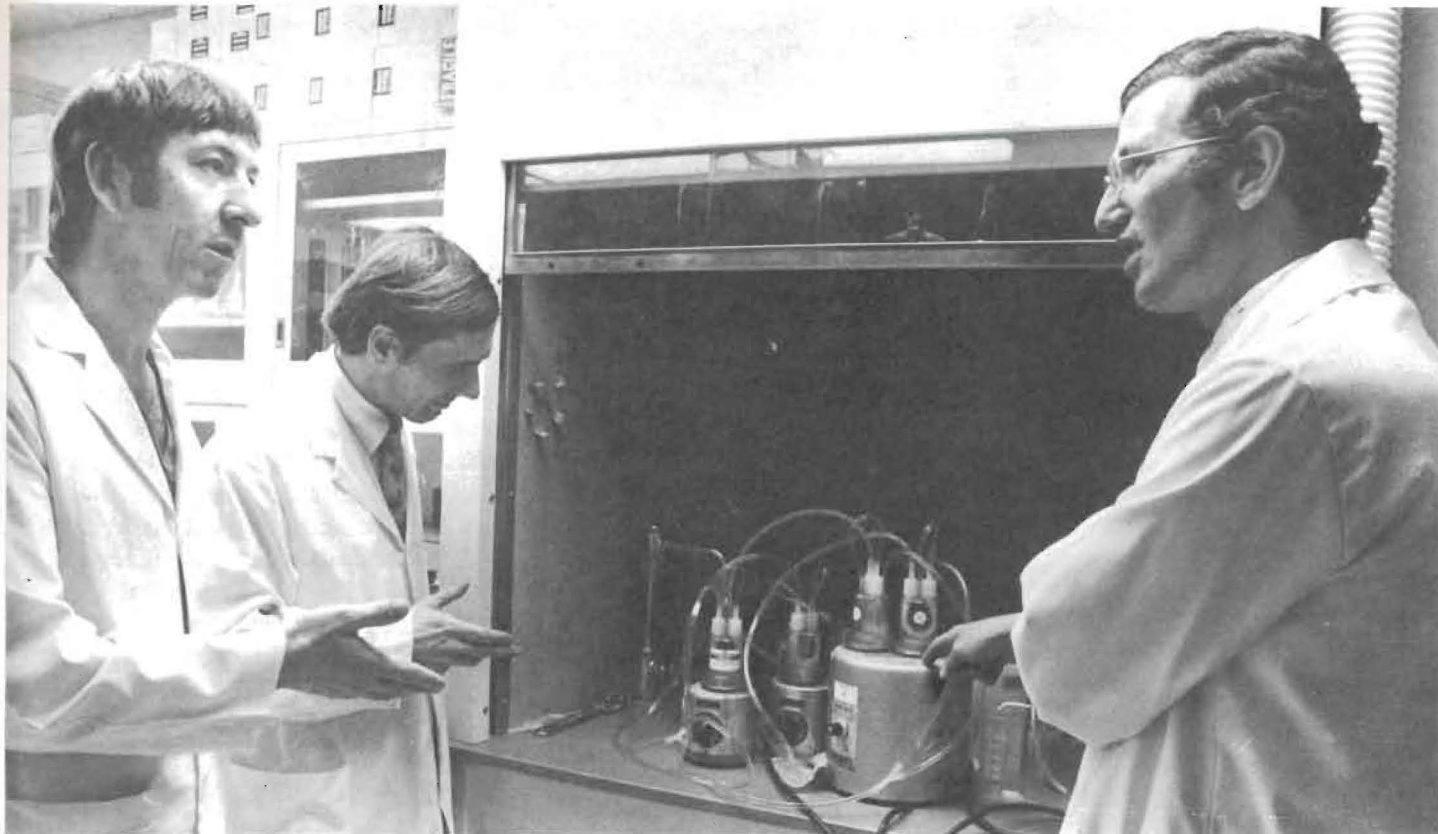
Provisions for the acquisition and analysis of data concerning radiation, heart damage and its predictions, and patient information are established by the data processing unit. The personnel in this core collaborate with researchers in applying sophisticated computer techniques to biology and medicine.

Investigator: Joanne Markham, M.S., BCL research assistant.

The administration core is responsible for coordinating the fiscal activities and relationships with the National Heart and Lung Institute and other SCOR centers at Massachusetts General Hospital, Boston; University of Alabama, Birmingham; Duke University, Durham, N.C.; University of Chicago; University of California at San Diego; and Johns Hopkins University, Baltimore, Md.

Individual projects funded by this grant are:

1. Research on biochemical markers released by the heart when damaged, and which indicate the severity of injury. Dr. Sobel and his colleagues are credited with finding that creatine phosphokinase (CPK), an enzyme in blood, can be used to predict how extensive heart damage from a coronary attack is likely to be. (They first deter-



Discussing operation of a machine that dialyzes the enzymes from cadaver hearts are from left, Drs. Robert Roberts, Philip D. Henry and Burton E. Sobel.

mined that the amount of CPK in the blood is directly proportional to the extent of damage.)

Investigators: Drs. Sobel, Henry and Roberts; and James E. Davis, Ph.D., assistant professor of pathology and of medicine.

2. Development of mathematical models for the improved prediction of heart damage using CPK and other chemical markers.

Investigators: Jerome R. Cox, Sc.D., professor of biomedical engineering in physiology and biophysics, director of the BCL, and associate of the division of health care research; Kenneth B. Larson, Ph.D., BCL research associate, and Ms. Markham.

3. Acquisition of information to assess and predict the amount of heart damage based on analysis of serum MB CPK (an enzyme related to CPK which is found in the heart, but is absent from skeletal muscle).

Investigators: Drs. Roberts and Davis.

4. Development and evaluation of improved ultrasonic equipment capable of identifying and determining the extent of ischemic heart injury.

Investigators: Alan N. Weiss, M.D.,

assistant professor of medicine; James G. Miller, Ph.D., associate professor of physics; and Donald E. Yuhas, Ph.D., research assistant in medicine.

5. Detection of reversible (capable of recovery) and irreversible (permanent) heart injury with radioisotopic techniques.

Investigators: Dr. Henry; Michael E. Phelps, Ph.D., associate professor of radiation sciences; Dr. Sobel; Michel M. Ter-Pogossian, Ph.D., professor and director of radiation sciences and professor of biomedical engineering; Edward S. Weiss, M.D., instructor of medicine; and Michael J. Welch, Ph.D., professor of radiation chemistry.

6. Evaluation of how the heart performs as a pump after cardiac damage.

Investigators: Philip A. Ludbrook, M.D., assistant professor of medicine; and Joseph D. Byrne, CPT (Cardio Pulmonary Technician), research instructor.

7. Study of the function of small blood vessels and their role in the progression of heart damage.

Investigator: Dr. Williamson.

8. Determination of how to maintain normal blood flow after early re-

vascularization (re-establishment of blood supply by blood vessel graft).

Investigators: Clarence S. Weldon, M.D., professor of cardiothoracic surgery and associate professor of pediatrics; John P. Connors, M.D., assistant professor of surgery; and Drs. Clark, Roberts, and Williamson.

9. Elucidation of factors in the blood which contribute to irreversible heart damage.

Investigator: Dr. Henry.

10. Clinical evaluation of drugs and procedures administered to improve the balance of oxygen in the heart and jeopardized ischemic cardiac tissue.

Investigators: Drs. Roberts, Alderson, Coleman, and Sobel; and Barry A. Siegel, M.D., assistant professor of radiology and director of nuclear medicine.

11. Identification of causes of the initiation, persistence and severity of early and late dysrhythmias (defective rhythm of the heart) in patients with heart attacks.

Investigators: Philip Needleman, Ph.D., associate professor of pharmacology; and Dr. Sobel.

# The Rewards



"The Ciba Collection of Medical Illustrations," eight books which comprise the Ciba Award,\* are not all that Vicki Altmeyer received from two months at St. Michael's Mission on Wyoming's Wind River Indian Reservation.

She got a summer jammed with memories—and a beneficial self-appraisal. The Medical School sophomore said that her volunteer work unquestionably provided her with more than she gave.

Vicki, daughter of Mr. and Mrs. Charles E. Altmeyer of St. Louis, became interested in the Arapahoe and Shoshone Indians through classmate Mari Duncombe. Her father, the Rev. David S. Duncombe, is director of the Episcopal mission, a church-supported community

\* Presented Dec. 12, 1974, by the Ciba Pharmaceutical Co., in recognition of extracurricular community service during the freshman year. Also see page 8.

with a challenge to provide both spiritual and temporal guidance to the people on the 3,000 square mile reservation. Mrs. Duncombe, a social worker, is in charge of its Youth Residence, a treatment center for Indian teenagers.

The Duncombes asked Vicki to join the mission's volunteer staff for the summer. Her responsibilities were many and varied. She was a leader of the Fun Club for small children who met daily for singing, swimming, games, picnics and crafts. She also supervised the game room where young people played pool or cards and talked—inevitably with the radio on "at full blast."

"Although I taught two cooking classes a week for girls at the youth residence, it was also a learning experience for me," Vicki said. "I was surprised that many

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*"My activities gave me a chance to know the Indian people and to share their ideas."*

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Indians eat only when they feel hungry, not on a particular time schedule. Often their meals consist of just one item, perhaps bologna sandwiches, for several days."

"We provided planning ideas for menus other than their regular meals of casseroles, hamburgers and hot dogs. One of the biggest hits was tacos. Another was spaghetti."

For this graduate of Yale, known as a liberal university, going on a shopping trip to Lander, the nearest town, was instructive for her as well as for her students. "While demonstrating to the girls how to look for the best values, I couldn't help but observe the large amount of prejudice this white community, similar to many which border a reservation, has against the Indians," she commented.

When members of the permanent staff took vacations Vicki got additional assignments—like coordinating the weekly movie organized by the Youth Residence teenagers. This kind of informal atmosphere was what she had been looking for.

"My activities gave me a chance to know the Indian people and to share their ideas," the tall blonde said. "I was lucky to be there under the Duncombes' auspices. Most non-Indians are not accepted when they first come to the area. It takes time for people to get to know you, but being a part of the Duncombe household apparently gave me credibility.

"Before this summer on the reservation, I was concerned that my years of intense concentration on academics

# of Summer

would be detrimental to me in communicating with people. I was wrong. The Indians helped me realize this.

"We even got a chance to use some medical knowledge. Mari and I were treated like resident doctors. One night when a girl fell out of her bunk, we were called in to look at her. We probed to see if she had broken any ribs.

"Fortunately she hadn't."

The future physician recounted requests to remove hay from several youngsters' eyes. That was about the extent of medically related opportunities, that is until Peter, Mari's younger brother, came to breakfast one morning.

"Covered with red, blistery rash, he asked us what it was. Luckily, classmates Michele Flicker and Allan Teranishi had come to visit us for a few days, giving us a total of four medical students. The consensus was that this number almost equalled one M.D. After a seminar, CPC\* and great deliberation, a diagnosis was made: chicken pox.

"Peter was quarantined to prevent the spread of the infection. There was no epidemic."

Shortly after the "chicken pox scare," Vicki observed two cultural events which impressed her with the lasting cultural greatness of the Indian people: The Arapahoe Sun Dance, and the Pow Wow that followed.

"During the Sun Dance, a mid-July religious event, about 60 men fast and pray. They take a vow of partici-



Two who helped make Vicki's summer a season never to be forgotten, JoJo Quivver and Moneta Watan.

signs, the meanings of which are tribal secrets. The most important ritual is the 'bringing in of the Sacred Pipe,' one entrusted to the tribe since creation, according to Arapahoe tradition.

"The week-long ceremony is an example of tribal consciousness, and involves the entire family. Throughout the final three days, the constant teacher, guide and source of support to the dancer is his 'spiritual grandfather' and it is the responsibility of each dancer's family to feed the 'grandfather' and his family. At the end of the Sun Dance, the dancers break their fast and have a feast prepared by the 'grandfather's' family.

"After these exhausting ceremonies, the Indian community moves from the Sun Dance grounds to the nearby Pow Wow area. Visitors from tribes throughout the west gather to enjoy the five-day festivities of competitive dancing. Both men and women vie for honors before several hundred spectators. Even as the Sun Dance is the spiritual highlight of the year, the Pow Wow is a time for fun and games for all.

"Living on the reservation was an enriching experience for me," Vicki said. "It was a good summer but it wasn't an easy one. The reservation is still a ghetto. I've never been that close to the problems that I saw: alcoholism and its effects; the fights and the prejudice. It made me realize how limited my experiences were. The summer exposure helped me evaluate myself: what I am doing, what I want to do and where."

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*"Living on the reservation was an enriching experience. It was a good summer, but it wasn't an easy one."*

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pation out of thanksgiving for gifts received, both tangible and intangible, or they petition for spiritual strength or healing for themselves or others. In the preparatory three days, they are counselled by the holy old men in the Rabbit Lodge concerning the greater meanings of the Sun Dance. On the fourth night the dancers then gather in the Sun Dance Lodge where they remain without eating or drinking until sundown three days later. Each of these mornings, they join together in a semicircle and greet the sun. It was in observation of this part of the dance which led early settlers to call this the Sun Dance, although to the Indian it is far more.

"With the eagle bone whistle, the dancers speak to the Spirit of Creation seeking to restore all things to rightness. They swing eagle feathers to the sounds of the drum. Their bodies are painted with varied colors and symbolic de-

\* Clinicopathological conference—review of a patient's case.

# Hopeful Future MDs Get Exposed to Medical School

While most of their peers were enjoying Nov. 29, 1974, as a day of vacation, 31 St. Louis area high school seniors were investing in their futures.

These teen-agers, with an expressed interest in medicine, were selected to attend the annual High School Honor Tour sponsored by the Medical Center Alumni Association. This was the 12th year for this event traditionally held the day following Thanksgiving.

Medical students Joann Ater, Barry Bernfeld, Francoise Heritier and Margaret Slaughter guided the visitors, helped put them at ease and encouraged questions.

Robert Lee, assistant dean for minority student affairs, and John L. Schultz, assistant dean for records and admissions, offered the official welcome, and then the group proceeded to the anatomy museum.

Richard P. Bunge, M.D., professor of anatomy, explained the importance of this subject to the overall medical education. He also gave the students an opportunity to examine a cadaver and the anatomical specimens on display.



Richard P. Bunge, M.D., professor of anatomy, demonstrates the relationship between nerves and muscles.



Franz M. Matschinsky, M.D., professor of pharmacology, explains the complexity of common drugs such as aspirin.

In the Department of Pharmacology, Professor Franz Matschinsky, M.D., talked about the complexity of drugs, even those many people consider "common." He also showed the youngsters through some of the medical school's laboratory facilities.

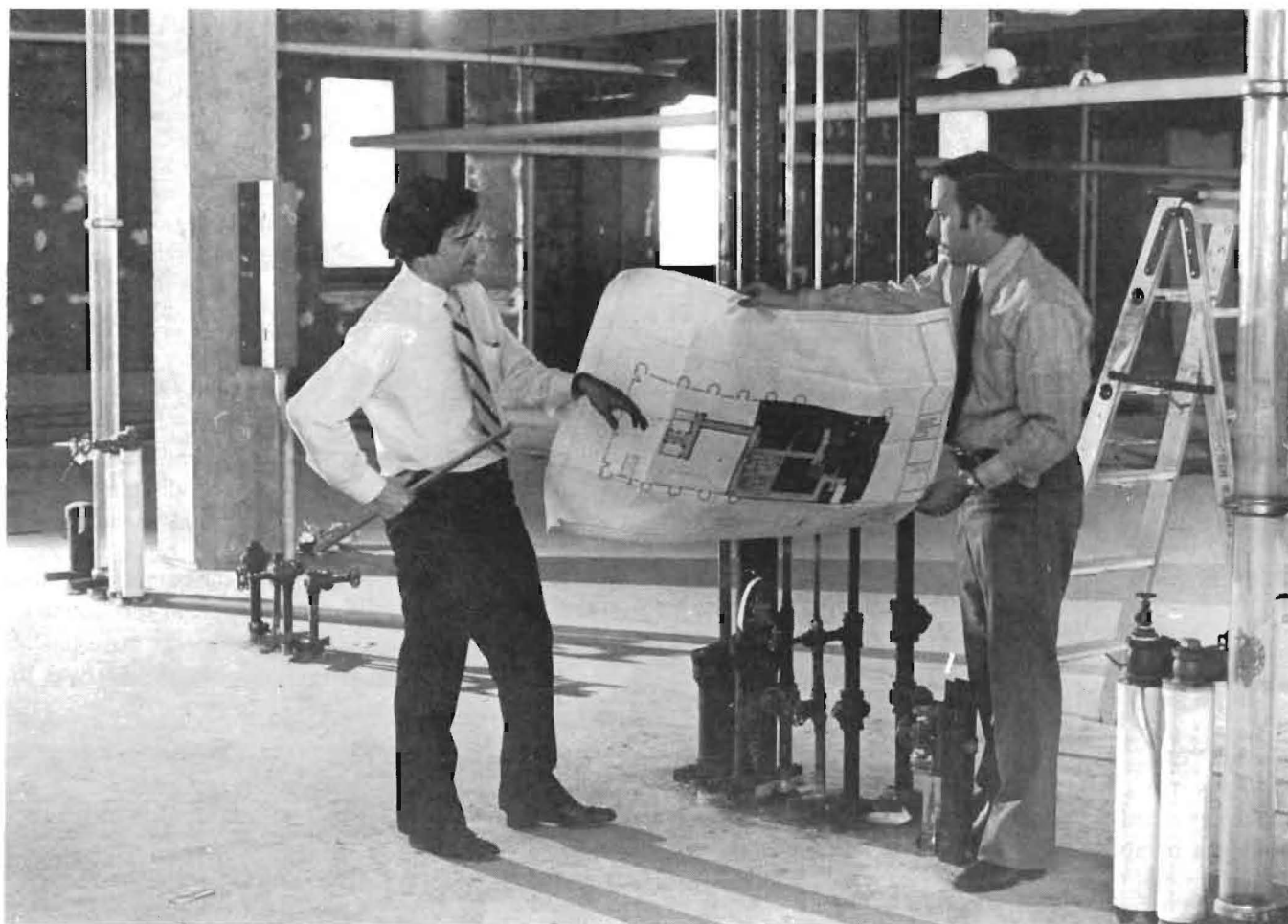
At noon, students met with alumni and faculty members for a luncheon in Olin Residence Hall. John C. Herweg, M.D., associate dean for students, spoke on the realities of preparing for application to medical school and what it might cost after acceptance.

After lunch a film was shown on cardiac catheterization of children. Alexis F. Hartmann, Jr., M.D., associate professor of pediatrics, and Antonio Hernandez, Jr., M.D., assistant professor of pediatrics, answered questions regarding this procedure.

Although this presentation was scheduled as the official conclusion of the program, that was not the case for nearly a third of the visitors. Because of the students' obvious interest in the Medical Center and their desire to prolong the day, the hostesses volunteered to extend the tour.

The interest and enthusiasm exhibited by these honor students led some observers to believe that when they again consider what their future possibilities are, they'll be thinking of Washington University School of Medicine.

# Cancer Basic Research Center To Be One of World's Largest



Drs. Thach, left, and Raskas compare the blueprints with the shell space on the eighth floor.

The Washington University Cancer Center is finalizing plans to construct a new large facility for basic research in cancer-related fields.

Samuel B. Guze, M.D., vice chancellor for medical affairs and Cancer Center director, said that nearly \$1 million will be spent for central facilities for tissue culture cell and virus production, and for electron microscopy. These facilities will be located on the eighth floor of the McDonnell Medical Sciences Building in what is presently shell space.

The National Cancer Institute has funded \$733,438 for construction. The University has committed an additional \$244,479.

Robert E. Thach, Ph.D., professor of biological chemistry and Cancer Center associate director for basic research, said that NCI also had approved the application for \$1,114,859 for the first three years of operation of the facilities.

More than 30 different laboratories in the Washington University Medical Center will receive supplementary services and materials from

the new center. This cooperative venture will be utilized in such research areas as virology, immunology, cell surface architecture, metabolic regulation, and experimental cancer chemotherapy.

Heschel J. Raskas, Ph.D., associate professor of pathology and of microbiology, will be the director of the tissue culture facility. For the projected staff of 22, about 15 new highly skilled technical and administrative persons will be hired to operate the center which will be one of the largest of its kind in the world.

Dr. Raskas compared the proposed new facility with similar laboratories at Roswell Park Memorial Institute, Buffalo, N. Y.; Sloan-Kettering Cancer Center, New York City; Institute of Molecular Virology at St. Louis University; Massachusetts Institute of Technology, Boston; and the National Cancer Institute's Virology Section, Bethesda, Md.

The 10,000-square-foot research area is expected to be completed within 18 months, Dr. Thach commented.

## Uplift— With a Yardstick

old), women with problem pregnancies, the blind and the deaf. Ten per cent of the population in this country is in this category.

“Because the need is so great, the project was under-

### THINK!

If you became confined to a wheelchair, would you forever be restricted to your own home?

Would you be able to:

- \* get through any doorway in your house—or those in public places?
- \* move up and down stairs?
- \* reach light switches, elevator buttons or telephones?
- \* have access to your own bathroom or any other?

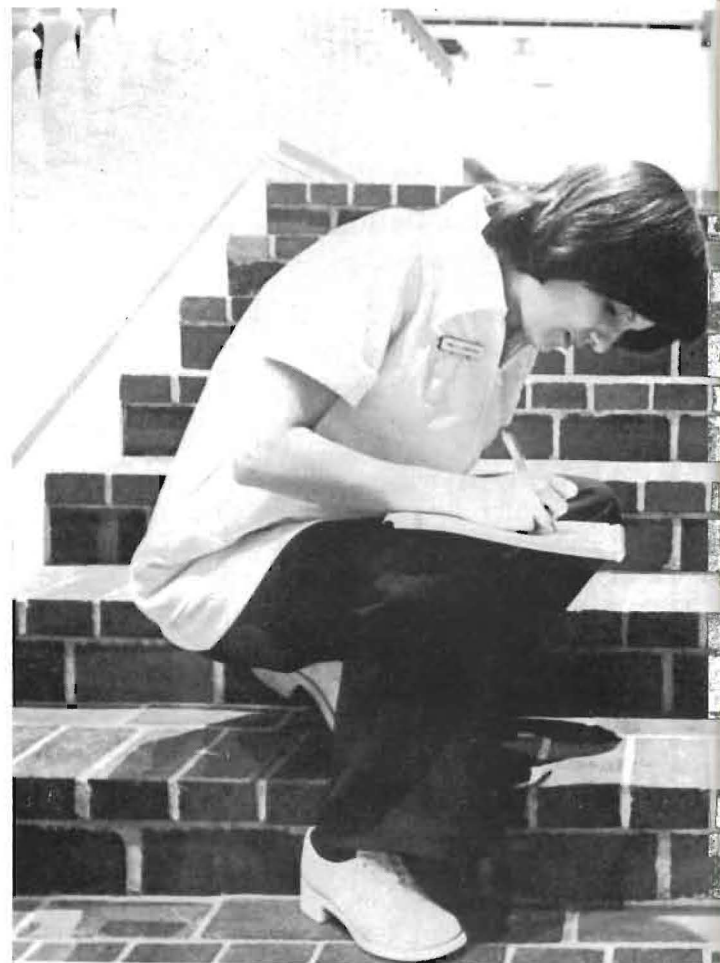
Those are only a few of the difficulties you would encounter.

“It can’t happen to me” is the thought. But it does happen to many every year and they often become confined to their homes in a society which does not anticipate their needs.

Although students in the Washington University School of Medicine occupational therapy program learn to become familiar with these problems, activities related to a recent course provided opportunities to experience the plight of the handicapped and their relationship to the community.

Twelve occupational therapy students offered assistance to the Easter Seal Society for Crippled Children and Adults of Missouri which is directing several groups exploring problems of the handicapped. In 10 months they checked specifications for accessibility in 300 public places in St. Louis. **Only 10 qualified.**

By definition, handicapped includes individuals who have limited mobility: those confined to wheelchairs or dependent on crutches, the elderly (more than 65 years



Occupational Therapy students Nelwyn Longfield, left, and Plaza Frontenac.



taken to update a guidebook for the handicapped in the St. Louis community," said A. J. (Frank) Block, project director of the architectural barriers program at the St. Louis Society of Easter Seals. "If the public areas passed inspection, they received the symbol of access, a seal adopted by the Rehabilitation International in 1969. The symbol indicates that a building is accessible and can be entered and its facilities used without fear of being



blocked by architectural barriers," he continued.

What are the requirements for obtaining the seal? A 10-page check list included offstreet parking, approach to building, entrance, access to essential areas, including width of corridors, stairs and steps, elevators, interiors, restrooms, guest rooms, water fountains, public telephones, availability of assistants and aids, control of light, heat and ventilation, warning signals for fires, and exits.

"The students' response to the project was enthusiastic," said Mrs. Ann Olson, Occupational Therapy Program lecturer. "Although they only received one hour of credit for the course, they spent countless hours with proprietors of theatres, restaurants and other public places, measuring and going over the check list of requirements. Afterwards they conferred with each other while writing up their reports."

"In the beginning, we had hoped that when we pointed out the inadequacies to business leaders that they would make efforts to improve their facilities for the handicapped," said senior June Shatken. "We were disappointed in their reactions."

"Some indicated it would cost too much money and take additional time to reorganize the restroom facilities for the handicapped," classmate Nelwyn Longfield reported.

"Although the changes need be made in only one stall, rails and adjustable seats, as well as doorway and stall space are required."

But the main problem is with the community at large, both students agreed. They contend that if building codes were more definitive these problems could be resolved. Facilities could be installed initially as part of regular requirements for new establishments.

"We think that the public must be educated to understand that it is relatively easy to construct buildings with the wheelchair patron in mind. Remodeling to include access for the handicapped is much more difficult," they commented.

"It is our conclusion that only with increased interest and advanced planning can the St. Louis community look forward to incorporating this one person in every 10 into all activities. These people must not be forced to remain cloistered in their homes."



June Shatken measure the height of steps at one entrance to

## Eugene M. Bricker, M.D., Honored At Surgery

How do you say thanks, best wishes and farewell to someone as well known, loved and respected as Eugene M. Bricker, M.D.?

After his 36 years of devoted service to Washington University, members of the Department of Surgery

wanted to provide a send-off to this prominent colleague—but it was common knowledge that he was opposed to “memorials for the living.”

So Walter F. Ballinger, M.D., Bixby Professor of Surgery and Head of the Department, decided to arrange a pro-

gram that he knew Dr. Bricker would attend. On Dec. 17, 1974, the Surgery Grand Rounds were assigned to Dr. Bricker, who would be speaking on “Current Problems in Pelvic Cancer Surgery.”



In a program sprinkled heavily with anecdotes, Eugene M. Bricker, M.D., third from left, front row, shares the laughter of the crowd in the East Pavilion Auditorium. Seated at his right is son, Robert.

## Grand Rounds Surprise

But Dr. Ballinger also contacted some of Dr. Bricker's family, closest friends and colleagues, and told them what he really had in mind.

Apparently the strategy paid off, because when Dr. Bricker, with lantern slides in hand arrived, he appeared surprised as he was greeted by a crowd that overflowed the 110 seats in the East Pavilion Auditorium.

While the proceedings at times resembled a "Gridiron Roast," all of the speakers were high in their praise of Dr. Bricker's accomplishments. They also were thankful for the individual assistance he had provided to them in their wide variety of interests.

Washington University Chancellor William H. Danforth, M.D., spoke both as a physician who had benefitted from Dr. Bricker's counsel, and as an administrator who received invaluable advice from this University trustee.

Speaking for the Barnes Hospital Board of Trustees, J. W. McAfee said, "We all will feel less confident without you, Dr. Bricker, and we will think of you with pride and affection."

Interjecting anecdotes with slides taken during their many years of association, C. Alan McAfee, M.D., associate professor of clinical surgery, brought repeated laughter with his remarks—more of hunting and fishing than of surgery.

A. Norman Arneson, M.D., emeritus professor of clinical obstetrics and gynecology, first told of Dr. Bricker's World War II service as an Army surgeon, for which he received several decorations. Next was related his role in the successful separation of the surgery and gynecology specialties shortly after the war. And finally was the reminder of Dr. Bricker's innovative procedure which has saved the lives of thousands of women with cervical cancer.

"To Eugene Bricker: teacher, surgeon and gentleman, from the Washington University House Staff" was the inscription on the black maple university chair presented to the clinical professor by Joseph G. Sandza, Jr., M.D., chief resident in general surgery.

Son and also surgeon Robert Bricker, M.D., who came from Albuquerque to the surprise program, spoke of his father's influences. He also showed slides taken while on mountain climbing expeditions, float trips, and camping. The senior Dr. Bricker's athletic prowess, described as part of his mystique, was also mentioned. It was a football scholarship to play for WU's "Battling Bears" in his junior year that made it possible for him to remain in medical school.

C. Rollins Hanlon, M.D., director of the American College of Surgeons,



flew from Chicago to express his appreciation for Dr. Bricker's rare qualities that were shared with all he met. Oscar P. Hampton, Jr., M.D., ACS assistant director for trauma, also was in attendance along with others who had come considerable distances.

Harris B. Schumacker, Jr., M.D., professor of surgery at Indiana University School of Medicine, in speaking of Dr. Bricker's surgical and teaching contributions, also pointed to his considerate and understanding manner with patients. "One of his most admirable traits," Dr. Schumacker said, "is his integrity. He is a pillar of strength."

In response, the 1934 alumnus expressed thanks for being honored in this unexpected way. He concluded, in his usual humble manner, by saying that his professional life had been full, but "I look back on it now and see that I could have used my time more effectively to accomplish more."

Dr. and Mrs. Bricker are now residing on their farm near Clarksville, Mo. Although he said that he plans to slow down his pace as a retiree, he did mention that he would apply for staff privileges at the Pike County Memorial Hospital—an indication that he isn't ready to retire his surgical instruments or his skills in the operating room.

# Alumni Activities

## '20s

**Irl G. Tremain, '22**, St. Louis, was a recipient of the AMA Physician's Recognition award.

**Jerome S. Levy, '25**, Little Rock, Ark., was honored by the University of Arkansas Medical Center with the establishment of a lectureship in his name. A professor of clinical medicine, he organized the Medical Center division of gastroenterology in 1929. It is estimated he contributed to the education of 3,400 physicians during his voluntary service to the school.

**Franklin E. Walton, '27**, St. Louis, delivered the St. Louis Medical Society's annual William Beaumont Oration at graveside in the Bellefontaine Cemetery.

**Paul R. Boren, '29**, Poseyville, Ind., retired from active practice Jan. 1, 1975, and was featured in *The Washington Post*.

**J. Marvin Salzman, '29**, Springfield, Ill., reports that he is doing well following surgery last October.

## '30s

**Joseph M. Orenstein, '30**, semi-retired, works part time at the Washington University Lipid Research Center, and at the Municipal Chest Clinics of the St. Louis Health Department.

**Adrian H. Scolten, '31**, at 83 years old, has moved from Portland, Me., to Carolina Village in Hendersonville, N.C. Dr. Scolten, for 30 years a member of the New England Society of Psychiatry, was the 1948 Democratic candidate for the U.S. Senate, and although he received 65,000 votes in the predominantly Republican state, was defeated by Margaret Chase Smith. He still contributes articles to newspapers and medical journals.

**Paul F. Max, '32**, instructor emeritus in clinical obstetrics and gynecology at Washington University, was honored at the annual meeting of the St. Louis Medical Society.

**William W. Herman, '33**, Shaker Heights, Ohio, has given up his private practice and is now assistant professor of pediatrics at Case Western Reserve Medical School.

**Joseph B. Kendis, '33**, St. Louis, was appointed chairman of the Missouri Advisory Council on Alcoholism and Drug Abuse. In 1974 he lectured on alcoholism in Alabama and Alaska.

**Fred C. Reynolds, '34**, Washington University professor of orthopedic surgery, was Surgeon-in-Chief Pro-Tempore at the Hospital for Special Surgery in New York City Nov. 11-15. He delivered the Philip D. Wilson Orthopaedic Lecture.

**Charles E. Stindel, '34**, St. Louis, is associate director of medical services at Lutheran Medical Center.

**Robert W. Elliott, '36**, is a director of the Metropolitan Bank and Trust Co., Alton, Ill.

**Eugene H. Hamilton, '38**, Joplin, Mo., has retired after 29 years in private practice, first as a general practitioner and then, as a specialist in internal medicine.

**Brig. Gen. Robert M. Hardaway, III, MC, USA, '39**, El Paso, Tex., was featured in an article on shock in the Oct. 1, 1974 issue of *U.S. Medicine*.

## '40s

**David N. Kerr, '41**, instructor in clinical medicine at Washington University, was honored at the annual meeting of the St. Louis Medical Society.

**E. Lee McCorkle, '42**, Marshall, Mo., was elected alternate delegate to the state convention.

**David Feldman, '43 March**, was elected secretary of the Medical Staff Association of The Jewish Hospital of St. Louis.

**Harlan I. Firminger, '43 March**, Baltimore, recently returned to the University of Maryland Medical School from his first sabbatical leave.

## Receptions Scheduled

The Washington University Medical Center Alumni Association will sponsor these receptions at professional meetings, and other events of interest to members during the 1974-75 academic year:

**American Academy of Orthopaedic Surgeons**  
March 2, San Francisco

**American College of Physicians**  
April 8, San Francisco

**Missouri State Medical Association**  
April 19, St. Louis

**American Society for Clinical Investigation**  
May 5, Atlantic City

**American College of Obstetricians and Gynecologists**  
May 6, Boston

**American Psychiatric Association**  
May 6, Anaheim

**Annual Medical School Reunions**  
May 14-16, St. Louis

Graduates of the School of Medicine, former house officers, faculty and former faculty, spouses and friends are invited.

**J. Richard Compton, '43 December,** Laurel, Md., was honored in retirement ceremonies from the active service in the U.S. Army Reserve. He was awarded the Legion of Merit Medal for his distinguished service as brigadier general and as commander of the 2290th U.S. Army Hospital. Highlight of the program was the premier performance of a new march, "Caduceus," composed especially for the occasion.

**Edward H. Kowert, '43 December,** St. Louis, was a recipient of the AMA Physician's Recognition Award.

**Virgil Loeb, Jr., '44,** St. Louis, WUMS associate professor of clinical medicine and assistant professor of pathology, was a participant in the International Cancer Congress in Florence, Italy. He also presented a paper in Ankara, Turkey, at the invitation of Fevzi Renda, M.D., a Barnes Hospital house officer and a fellow in hematology in 1947-52. He is currently director of radiology at the University of Ankara Medical School.

**Henry W. Noller, '44,** St. Louis, was elected a representative to the Missouri Baptist Hospital's joint conference committee.

**Robert J. Nottingham, '44,** Morgantown, W. Va., was named honorary chairman for the Breath of Life campaign of the National Cystic Fibrosis Research Foundation.

**Martin Bergmann, '45,** is president-elect of the Medical Staff Association of The Jewish Hospital of St. Louis.

**James O. Davis, '45,** chairman of the department of physiology at the University of Missouri-Columbia, received the Franz Volard Award with a \$1,000 gift from the International Society of Hypertension. He was cited for his 1960 discovery in investigating the causes of hypertension, that the renin-angiotensin system controls aldosterone secretion. He also was recognized for his contributions to the pathogenesis of hypertension. The presentation was at the society's meeting in Milan, Italy.

**Charles Wolfson, '45,** Amarillo, Tex., engaged in general medicine practice, re-

cently took postgraduate courses in EKG interpretation.

**Patricia F. Lanier, '46,** Alta Loma, Calif., is now associated with the Ontario Family Medical Group and is chief-of-staff, Montclair Community Hospital.

**Charles H. Nicolai, '46,** was elected secretary of the Missouri Baptist Hospital Medical Staff in St. Louis.

**H. Mitchell Perry, Jr., '46,** professor of medicine at Washington University, on Nov. 26 at the Royal Society of Medicine of London conference on hypertension presented a paper titled "Multiple Screening from the United States' Point of View." He also was in Geneva Nov. 27-29 serving as a consultant to the World Health Organization-International Atomic Energy Agency joint research program on trace elements in cardiovascular diseases.

**William Hausman, '47,** Parkview Terrace, is chairman and head of the Department of Psychiatry at the University of Minnesota Medical School. He is also president of the board of A. K. Rice Group Relations Institute of America.

**Robert Burstein, '48,** St. Louis, associate professor of clinical obstetrics and gynecology, spoke at the 42nd annual meeting of the Central Association of Obstetricians and Gynecologists.

**George W. Farris, '48,** Boca Raton, Fla., is practicing anesthesiology at Boca Raton Community Hospital.

**John A. McFarlane, '48,** Sioux City, Iowa, reports he is looking for an associate in his urology practice.

**Donald C. Greaves, '49,** Evanston, Ill., was named chairman of the Department of Psychiatry at Evanston Hospital. He is also professor of psychiatry and associate chairman of the Department of Psychiatry at Northwestern University Medical School.

**Kenneth Sugioka, '49,** of the University of North Carolina, Chapel Hill, is president-elect of the Society of Academic Anesthesia Chairmen.

## '50s

**W. Spencer Payne, '50,** Rochester, Minn., professor of surgery at the Mayo Medical School, has co-authored a book with A. M. Olsen entitled *The Esophagus*. He also is serving as president of the Minnesota Chapter of the American College of Surgeons.

**Wendell C. Kirkpatrick, '51,** Longview, Wash., was certified by the American Board of Family Practice and became a charter fellow of the American Academy of Family Practice.

**Kenneth E. Pitts, '51,** West Bloomfield, Mich., is the state representative to the Assembly of District Branches of the American Psychiatric Association. He is immediate past president of the Michigan Psychiatric Society.

**George Roush, Jr., '51,** St. Louis, associate director of Monsanto Company's corporate medical department since 1973, has been named director.

**William R. Cole, '52,** Smithton, Mo., was elected president of the medical staff at the John Fitzgibbon Memorial Hospital.

**Jerome J. Gilden, '52,** was elected president of the Medical Staff Association of The Jewish Hospital of St. Louis. He is director of orthopedic surgery.

**W. Dale Hooper, '52,** Beckley, W. Va., has been appointed chief of surgical service at the Veterans Administration Hospital there.

**Grant Izmirlian, '52,** was elected treasurer of the St. Louis Academy of Family Physicians.

**Donald L. Oetter, '53,** and **John A. Headrick, '58,** St. Louis, were recipients of the AMA Physician's Recognition Award.

**Frederick T. Kraus, '55,** St. Louis, was appointed chief of pathology at St. John's Mercy Medical Center.

**August W. Geise, Jr., '56,** was installed the 140th president of the St. Louis Medical Society.

# Alumni Activities

**R. Thomas N. Hunt, '56**, Orinda, Calif., has been elected chief-of-staff at Mount Diablo Hospital.

**Ralph H. Harder, '57**, Saratoga, Calif., is treasurer of the Santa Clara County Medical Society and on the board of directors of the California Academy of Family Physicians.

**Jewell L. Osterholm, '57**, Strafford, Pa., has been appointed professor of neurosurgery and chairman of the department at Thomas Jefferson University's Jefferson Medical College.

**John R. Broadwater, '58**, Fort Smith, is president of the Arkansas Division of the American Cancer Society.

**John A. Headrick, '58**, St. Louis, was a recipient of the AMA Physician's Recognition Award.

**A. D. Krems, '58**, Santa Monica, Calif., was elected president of the Academy of Chinese Medicine and was a co-sponsor of the Fourth World Congress on Acupuncture in Las Vegas in February.

**T. Shelly Ashbell, '59**, Chicago, chief of the Division of Plastic and Reconstructive Surgery at the Chicago Medical School, has been promoted to professor of surgery.

**Charles C. Norland, '59**, St. Louis, was elected chief-of-staff at Missouri Baptist Hospital. He succeeds **Miles C. Whitener, '55**.

## Calendar of Continuing Medical Education at Washington University School of Medicine

March 5 through May 21

**Internal Medicine Board Examination Review**

March 6-7 (Thursday and Friday)

**"Use of the Laboratory in Clinical Practice"**

*Program Director: Leonard Jarrett, M.D.*

March 19-20 (Wednesday and Thursday)

**"Topics in Gastroenterology"**

*Program Director: Francis J. Tedesco, M.D.*

March 24-26 (Monday through Wednesday)

**"Introductory Workshop on Clinical Laboratory Computing: Specification and Evaluation"**

*Program Director: John W. Lewis, Ph.D.*

April 3-4 (Thursday and Friday)

**"An Update in Renal Disease"**

*Program Director: Saulo Klahr, M.D.*

April 14-15 (Monday and Tuesday)

**"Symposium on Obstetrics and Gynecology"**

*Program Director: George J. L. Wulff, Jr., M.D.*

April 23-25 (Wednesday through Friday)

**"Diagnosis and Management of Disorders of Skeletal Metabolism"**

*Program Director: Louis V. Avioli, M.D.*

May 1, 2, 3 (Thursday through Saturday noon)

**"Current Concepts in the Practice of Medicine and Surgery, 1975"**

*Program Director: Jerry R. Meyers, M.D.*

May 14-16 (Wednesday through Friday)

**Alumni Reunion—"Postgraduate Course in Infectious Diseases"**

*Program Director: Gerald Medoff, M.D.*

June 4 (Wednesday)

**"Perinatal Medicine"**

*Program Director: Richard Marshall, M.D.*

September 8-9 (Monday and Tuesday)

**Orthopedic Surgery Board Examination Review**

September 18-20 (Thursday through Saturday)

**"Hand Symposium"**

*Program Director: Paul M. Weeks, M.D.*

For additional information, write:

The Office of Continuing Medical Education

Washington University School of Medicine

660 South Euclid Avenue

St. Louis, Missouri 63110

or telephone (314) 367-9673 or 454-3372.

## '60s

**Phillip E. Winter, '60**, was promoted to colonel and is still serving as director of the U.S. Army Component, SEATO Medical Research Laboratory in Bangkok, Thailand.

**Raymond B. Isely, '61**, Yaoundé, Cameroon, Africa, field director of the University of Pittsburgh OCEAC Regional Public Health Training Project, was named a fellow in the American Academy of Pediatrics. He has written two papers on the improvement of health standards in Cameroonian villages.

**Nicholas T. Kouchoukos, '61**, Birmingham, is professor of surgery and associate director of the Division of Cardiovascular and Thoracic Surgery, University of Alabama School of Medicine.

**Charles R. Lewis, '61**, was elected to the board of directors of the St. Louis Academy of Family Physicians.

**Melvin C. Dace, '62**, Gainesville, is secretary of the Florida Society of Internal Medicine, and a national consultant on the membership committee of the American Society of Internal Medicine.

**John W. Fenlon, '62**, Appleton, Wis., is in private practice in diagnostic radiology.

**Jay W. Smith, '62**, Tucson, is associate professor and associate chairman of the Department of Medicine at the University of Arizona College of Medicine.

**Marcus E. Raichle, '64**, WUMS assistant professor of neurology and of radiology, has been appointed to the editorial board of *Stroke*.

**Richard L. Payne and William J. Phillips, '63, Fletcher T. Ott, '65, John P. Murray, and Morris W. Pulliam, '66**, St. Louis, were recipients of the AMA Physician's Recognition Award.

**Louis J. Rosenbaum, '63**, Phoenix, is the chief of ophthalmology at St. Lukes Hospital and the Phoenix V.A. Hospital. He also is an instructor in clinical ophthalmology at the University of California, San Francisco.



Raymond B. Isely, '61, who reports he has just finished 2½ years as director of public health education project, research and training in three countries of Central Africa, sent this photo to OUTLOOK. His new address is: Department of Maternal and Child Health, School of Public Health, University of North Carolina at Chapel Hill, where he will have a fellowship for a year of study in the MPH program beginning in August.

**Brian H. Gross, '65**, Winchester, Mass., was elected vice-president of the medical staff at Kennedy Memorial Pediatric Hospital in Boston. He also is chief of anesthesiology and respiratory therapy and is a member of the executive committee.

**D. Wade Hammond, '65**, has joined the St. Louis Orthopedic Institute, Inc.

**James E. Musgrave, '65**, Portland, is assistant professor of pediatrics at University of Oregon Medical School. He recently was board certified in pediatric nephrology.

**Amelia E. Allen, '66**, Salem, Ore., is consultant for child development and family planning clinics for Marion and Polk County Health Departments.

**W. Stephen Corrie, '66**, Toledo, Ohio, is assistant professor of neurology and electroencephalographer for the Epilepsy Study Program at the Medical College of Ohio.

**Walter D. Kistler, Jr., '66**, St. Louis, is now in the private practice of internal medicine with a cardiology specialty.

**Michael Adams, '67**, in the private practice of internal medicine in Fresno, is also commander of the 144th USAF Clinic, California Air National Guard. Last summer he was appointed a Diplomate by the American Board of Internal Medicine. During his 1968-1971 assignment to the 36th Tactical Hospital at Bitburg Air Force, Germany, he was named flight surgeon of the year for the U.S. Air Forces in Europe. He was regarded as the only pilot-physician to be qualified as an F4D Phantom aircraft commander.

**Arnold E. Katz, '67**, Iowa City, Iowa, has been awarded a grant from the Milheim Foundation for Cancer Research to investigate "Serum Immunoglobulin Levels in Carcinoma of the Head and Neck."

# Alumni Activities

**Frank Vinicor, '67**, Indianapolis, is assistant professor of medicine (endocrinology) at Indiana University Medical Center. His paper, "Effects of Maternal Fasting and Diabetes on Fetal Metabolism," was published in the August '74 issue of *Diabetes*.

**Joel M. Karlin, '68**, Englewood, Colo., was certified by the American Board of Allergy and Immunology, and has established a private practice in suburban Denver.

**Steven B. Raffin, '68**, Burlingame, Calif., is on the internal medicine (gastroenterology) staff at Oak Knoll Naval Regional Medical Center, Oakland. His paper, "Role of Microsomal Heme Oxygenase in Intestinal Absorption of Hemoglobin Iron," was in the December, 1974 *Journal of Clinical Investigation*.

**John W. Barr, '69**, San Diego, after completing a two-year NIH cardiovascular fellowship is on the teaching staff of the Naval Regional Medical Center.

**James M. Epstein, '69**, has entered the private practice of hematology and medical oncology with the St. Louis Medical Clinic Inc., formerly Grant Medical Clinic.

**Charles G. Fathman, '69**, Bethesda, Md., is a clinical associate at the National Cancer Institute. He will go to Basel Institute for Immunology next year for a two-year fellowship.

**Richard P. Jacobs, '69**, Mill Valley, Calif., is an assistant professor of radiology at San Francisco General Hospital.

**John Charles Long, '69**, is in the Army assigned to the Hematopathology Division at the Armed Forces Institute of Pathology, Washington, D.C.

**Charles L. Rich, '69**, Marion, Ohio, is chief psychiatrist at the Frederick C. Smith Clinic.

**Mitchell A. Russ, '69**, Indianapolis, after completing a fellowship at Indiana University is director of gastrointestinal radiology at St. Vincent's Hospital.

**Barry A. Siegel, '69**, Gaithersburg, Md., is serving in the U.S. Air Force as chief of the Radiologic Sciences Division at the Armed Forces Radiobiology Research Institute in Bethesda. He has an appointment part-time as assistant professor of radiology at Johns Hopkins University School of Medicine, and is a member of the FDA Radioactive Pharmaceuticals Advisory Committee.

## '70s

**Marilyn B. Escobedo, '70**, Nashville, Tenn., is a neonatal pulmonary research fellow at Vanderbilt University School of Medicine.

**Robert G. Harmon, '70**, Rockville, Md., was elected president of the Physicians National Housestaff Association.

**John P. Moreland, '70**, will begin the practice of medicine in Hamilton, Mont., next July after completing his WAMI residency at the University of Washington School of Medicine, Seattle.

**David W. Ortvals, '70**, Jacksonville, N.C., is in the Department of Medicine at the U.S. Naval Hospital, Camp Lejeune, N.C. He will be a fellow in infectious diseases and immunology at Barnes Hospital and Washington University beginning in July.

**Terrence A. Pfeifer, '70**, Redmond, Wash., has completed a residency in obstetrics and gynecology and has begun a two-year fellowship in infectious diseases at the University of Washington Hospitals.

**Hugh H. West, '70**, Sausalito, is a second year resident in neurology at the University of California, San Francisco, Medical Center.

**Robert M. Simpson, '71**, Albuquerque, has been appointed chief resident of orthopedic surgery at Bernalillo County Medical Center.

**John P. Anhalt, '72**, Rochester, Minn., has joined the staff of the Mayo Clinic as a consultant in clinical microbiology.

**Robert A. Rosenbaum, '72**, Chicago, is chief medical resident at Northwestern University Medical Center.

**Barbara Cooper Mandell, '73**, Martinsville, N.J., has changed from pediatrics to internal medicine and is now training at Rutgers Medical School, Piscataway, N.J.

## Former House Staff and Former Faculty

**Elliot Berson, M.D.**, Boston, has been appointed director of the Berman-Gurd Laboratory for the Study of Retinal Degeneration at Harvard Medical School and Massachusetts Eye and Ear Infirmary.

**Russell L. Edwin, M.D.**, Great Falls, Mont., has started a private practice in ophthalmology.

**R. W. Eells, M.D.**, Atlanta, is chief of radiology at the Veterans Administration Hospital and associate professor of radiology at Emory University Medical School.

**Robert S. Francis, M.D.**, Rockville, Md., is on the staff of the diagnostic radiology department at the National Institutes of Health. **Sharron M. Francis, M.D.**, is a research associate at the Heart and Lung Institute.

**John Bernard Henry, M.D.**, Syracuse, N.Y., co-edited the 15th Edition of Todd-Sanford *Clinical Diagnosis by Laboratory Methods*. He is vice-president of the American Board of Pathology and on the board of directors of the American Society of Clinical Pathologists.



# Nothing in the world lasts Save eternal change

—Honorat De Bueil

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Name

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Address

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City, State, Zip

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Year of graduation or on faculty or house staff

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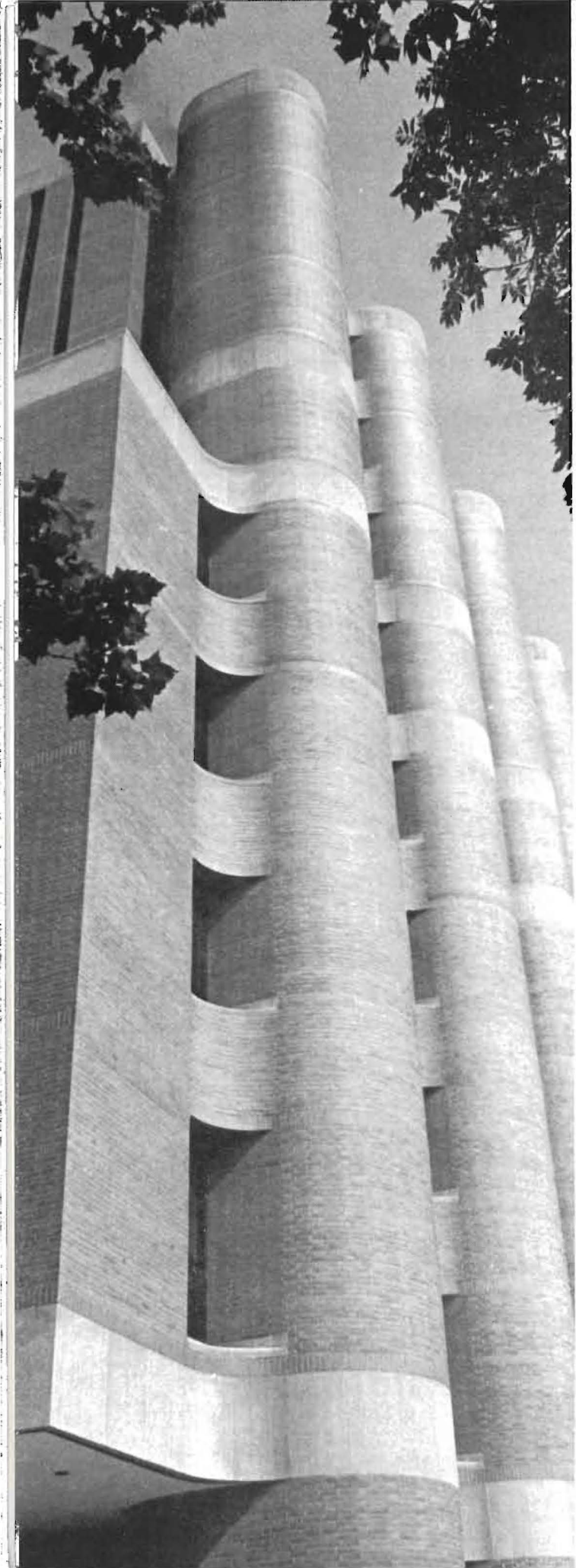
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## Alumni Activities

### Health Care Administration Graduates

New appointments or promotions have been reported by the following alumni of the Washington University Graduate Program in Health Care Administration:

**Duane E. Johnson, '50**, Detroit, executive director, Southeastern Michigan Chapter, American Red Cross.

**David A. Gee, '51**, president, Jewish Hospital of St. Louis and associate professor of health care administration at Washington University, elected to a two-year term on the administrative board of the Council of Teaching Hospitals of the Association of American Medical Colleges.

**Roland E. Lea, '52**, associate director for secondary health care services, St. Louis County Department of Community Health and Medical Care.

**D. Gene Clark, '64**, Johnson City, Tenn., administrator, Memorial Hospital.

**James W. Worrell, '65**, Houston, Tex., administrator, North Central General Hospital.

**Harold (Pat) Scheff, Jr., '68**, associate executive director, the Jewish Hospital of St. Louis.

**Jerome C. Miller, '69**, Louisville, Ky., manager, Standards Development Program, Department for Human Resources, Commonwealth of Kentucky.

**James C. Gwyn, '74**, St. Louis, assistant director, St. Louis-Little Rock Hospital.

**John D. Hicks, '74**, Dallas, administrator, Erik and Margaret Jonsson Hospital, Baylor University Medical Center.

**Michael R. Hutchinson, '74**, San Francisco, Calif., assistant administrator, Kaiser Foundation Hospital.

**Alvin King, '74**, St. Louis, administrative assistant, St. Luke's Hospital.

**Michael E. Schrader, '74**, Rockford, Ill., director of planning, Swedish-American Hospital.

### IN MEMORIAM

#### Alumni

Ray Mercer, '06	Aug. 5, 1974
George M. Polk, '18	Aug. 24, 1974
Howard H. Heuston, '19	Jan. 3, 1975
Charles M. Gruber, '21	Nov. 19, 1974
Nathan A. Womack, '24	Feb. 2, 1975
Edward L. Burns, '28	Oct. 10, 1974
Craig B. Johnson, '29	Sept. 24, 1974
Robert S. Poos, '34	July 21, 1974
Kendall D. Gregory, '40	Aug. 3, 1974
Gilbert W. Strauchen, '40	Dec. 11, 1974
George G. Wolf, '47	Jan. 27, 1975
Richard E. Hanna, '49	Dec. 1, 1974
Robert B. Dawes, '59	Sept. 29, 1974
Susan L. Desmarais, '66	Feb. 2, 1975

#### Former Faculty

Edward W. Dempsey, Ph.D., former dean and professor and head of the Department of Anatomy	Jan. 9, 1975
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#### Former House Officer

Victor duBusc, M.D.	Dec. 31, 1974
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**George Iturralde, M.D.**, Prairie Village, Kan., has received a certificate of Fellowship in Psychiatry from the University of Kansas School of Medicine.

**William Platt, M.D.**, St. Louis, soon will publish the second edition of *Color Atlas and Textbook of Hematology*.

**John S. Spratt, Jr., M.D.**, president of the Association of American Cancer Institutes, has published a book with Y. N. Lee entitled *Malignant Lymphoma: Nodal and Extranodal Disease*. A reserve captain in the Naval Medical Corps, Dr. Spratt received the Conspicuous Service Medal from Gov. Christopher Bond for service as a Naval representative to the military support planning and operations office of the Missouri National Guard.

**Leo R. Sullivan, M.D.**, Boston, has been appointed an assistant dean for student affairs at Tufts University School of Medicine.

**George Winokur, M.D.**, Iowa City, professor and head of psychiatry at the University of Iowa, has been named the Paul W. Penningroth professor of psychiatry at the University.

**Saul Niedorf, M.D.**, Los Angeles, has written a chapter entitled "The Psychoanalytic Approach with Emotionally Disturbed Children" in a new book—*Approaches with Emotionally Disturbed Children*.

**Barbara Bruner, M.D.**, Atlanta, is assistant director of pediatric ambulatory services at Grady Memorial Hospital and associate professor of pediatrics at Emory University School of Medicine.

**Dale Burton, M.D.**, Hannibal, Mo., has been elected secretary of the medical staff at St. Elizabeth's Hospital.

**Marlys H. Witte, M.D.**, Tucson, is an associate professor of surgery at the University of Arizona, and is program director of NIH Clinical Research Center in Surgery at the Arizona Medical Center. She also received a USPHS Career Research Development Award.

# Names Make News

After Three Tries, Success!



"Almost," a rugged group of third-year medical students, were photographed after winning the Men's Intramurals All University Flag Football Championship last fall. The team called itself "Almost" because during the two previous seasons that was as close as it got to becoming the top team. Standing, from left, are John Schilling, Dennis Cooke, Larry Blanchard, Larry Stempel, Mike Pfaller, Mike Lewis, Barry Bernfeld and Jim Schall. Crouching, Steve Jolley, Ken Rugh and Terry Hammons. Kneeling, Rick Boyer, John Milton, Dave Wilson and Marlowe Goble. Front, Bob Silverman. (Photo by Vickie Blanchard)



A surprise at the Dec. 12 Student Awards Assembly was the presentation of a plaque from Larry Stempel, left, to Associate Dean John C. Herewg, M.D. The third-year medical student team "Almost" won the award as Men's Intramurals All University Flag Football Champions last fall. Stempel said that the team wanted the Medical School to display the plaque because there haven't been many other awards for sporting events received by medical students—and some members weren't sure that with their clinical schedules they would be able to get together as a team next year to try again.

## AOA Editors Featured at Chapter Annual Banquet

The editor of Alpha Omega Alpha's *The Pharos* magazine was guest speaker, and the assistant editor was one of the initiates at the Jan. 21 annual banquet of the Washington University School of Medicine Chapter of  $\alpha\omega\alpha$ .

*Pharos* editor Robert J. Glaser, M.D., who also is president of the Henry J. Kaiser Family Foundation, addressed the audience of more than 100 that included the newly elected 18 students, one faculty and three alumni members. Assistant editor Helen Hofsommer Glaser, M.D. '47, is

### Recognition Received . . .

. . . by Jerome R. Cox, Sc.D., director of the Biomedical Computer Laboratory, who has been named chairman designate of the Department of Computer Science of the University's School of Engineering and Applied Science. A member of the Washington University Faculty since 1955, he is a professor of electrical engineering in the Engineering School, and professor of biomedical engineering in the Medical School's department of physiology and biophysics.

. . . by Eli Robins, M.D., Wallace Renard Professor and head of the Department of Psychiatry, who has been elected president of The Society to Conquer Mental Illness, an organization devoted to educating the public about more scientific approaches to major mental illnesses.

. . . by Henry G. Schwartz, M.D., August A. Busch, Jr., Professor, who was named the first "Neurosurgeon of the Year" by *Surgical Neurology*, journal of the Congress of Neurological Surgery.

. . . by Donald W. Goodwin, associate professor of psychiatry, who received the Jellinek Memorial Award for Alcoholism Research from the North American Congress for Alcoholism and Drug Abuse. He was the first American to be so honored.

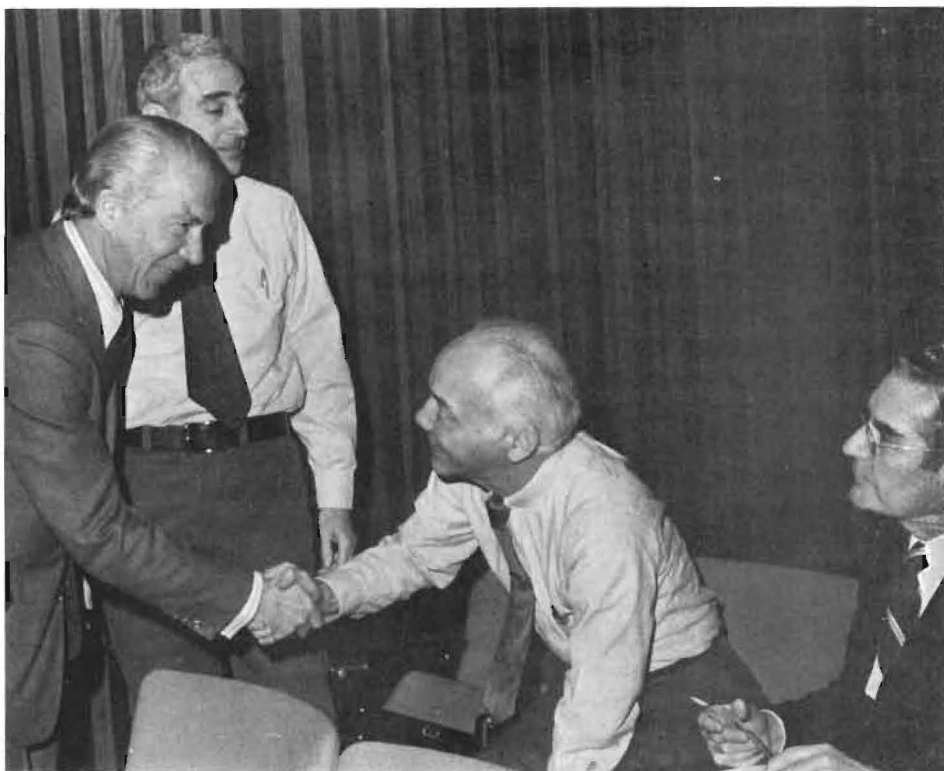
Robert Glaser's wife, and is assistant professor of clinical psychiatry at Stanford University School of Medicine. Both Drs. Glaser are former members of the Washington University faculty.

Other new alumni members initiated were Donald H. Finger, M.D. '50, assistant professor of clinical medicine and president of the Medical Center Alumni Association; and Robert S. Karsh, M.D. '52, associate professor of clinical medicine.

Robert L. Chesanow, M.D., assistant professor of neurology, was the newly elected faculty member.

The new student members were selected by the faculty and the 128 in the senior class. Initiates were Scott

P. Bartlett, Ogden, Utah; James M. Barton, Champaign, Ill.; Robert M. Black, Short Hills, N.J.; David B. Clifford, Georgetown, Texas; Robert J. Flaherty, Detroit, Mich.; Keith H. Fulling, St. Louis; Deborah J. Gersell, Dearborn, Mich.; Arthur Greenberg, New Rochelle, N.Y.; Stephen D. Grubb, Fairfax, Mo.; Daniel Hansburg, Akron, Ohio; James L. Kesler, Sumner, Ill.; Richard G. Kleinman, Cleveland, Ohio; Paul I. Nadler, Bay-side, N.Y.; Charles G. Newton, Jr., Dayton, Ohio; Joseph F. Pasternak, Des Moines, Iowa; Paul I. Rubinfeld, Millburn, N.J.; and Bruce A. Schainker and Thomas M. Ulbright, both of St. Louis.



Christian de Duve, Ph.D., left, a co-recipient of the 1974 Nobel Prize in medicine, greeted Robert M. Burton, Ph.D., associate professor of pharmacology, center, F. Edmund Hunter, Ph.D., professor of pharmacology, right, and P. Roy Vagelos, M.D., professor and head of the Department of Biological Chemistry, prior to his Jan. 28 address at the School of Medicine. Dr. de Duve described his current chemotherapy research at both the University of Louvain in Belgium and at Rockefeller University in New York.

# \$1 Million Grant Supports Storage Disease Research

National Cancer

A \$1 million grant has been awarded to a Washington University School of Medicine geneticist for research on enzyme replacement therapy.

William S. Sly, M.D., associate professor of medicine and of pediatrics, and director of the division of genetics, is principal investigator of the four-year study funded by the National Institutes of Health.

Explaining that each cell in the human body has a set of structures called lysosomes which serve a disposal function and digest the cell's waste matter, Dr. Sly noted that "Each lysosome requires between 50 and 60 enzymes to function properly." (An enzyme is an organic compound which is capable of accelerating or producing changes in other substances.)

"A deficiency of one of these enzymes leads to a condition known as a storage disease," he said.

There are about 25 different storage diseases known. Characteristics of the diseases vary, depending on what enzyme is lacking and what waste material is not being disposed. Mental retardation, skeletal deformities, poor resistance to infection and in many cases, a short life expectancy, are among these characteristics.

"The research team will be testing the possibility of enzyme replacement as a means of treatment for storage diseases," Dr. Sly said.

The initial studies are concentrating on the mucopolysaccharide (a waste product requiring seven or eight enzymes to dispose of it) storage disease caused by a deficiency in a beta-glucuronidase (one of the needed enzymes).

"Normally each cell makes enzymes which promote its own chemical reactions," Dr. Sly explained. "It has been found that normal cells in tissue culture produce lysosomal enzymes which can leave the healthy cell and then enter an abnormal cell and function properly. This suggested that enzyme

replacement in deficient individuals might be possible."

This technique is being tested in cell cultures and with experimental animals. After it is shown effective, the process will be applied to humans. This will be done by extracting the enzymes from healthy cells and then injecting them into deficient patients.

"If this technique succeeds on the mucopolysaccharide," Dr. Sly said, "we will extend it to other storage diseases.

"Whether the technique will be clinically beneficial ultimately depends on whether the brain barrier can be crossed," Dr. Sly said.

"Mental retardation results when a storage disease affects cells in the brain," he said. "If the injections of the lacking enzyme cannot reach the cells in the brain, the value of the process will be considered minimal."

Dr. Sly, who joined the Washington University faculty in 1964, received the M.D. degree in 1957 from St. Louis University School of Medicine.

After training at Barnes Hospital, he was research biochemist with the enzyme section, and later with the biochemical genetics section, of the National Heart Institute, Bethesda, Md., from 1959-63. He then served as a post-doctoral fellow of the American Cancer Society at the Laboratoire d'Enzymologie in France and in the department of biochemistry at University of Wisconsin, Madison.

Dr. Sly spent the last academic year on a sabbatical leave doing research at Oxford University in England.

Other investigators on this research are Philip D. Stahl, Ph.D., assistant professor of physiology and biophysics; Elliott C. Bell, Jr., M.D., assistant professor of medicine and of pathology; David M. Geller, Ph.D., associate professor of pharmacology; and Frederick E. Brot, Ph.D., research instructor in pediatrics.

Two grants totaling more than \$670,000 have been awarded to Teresa J. Vietti, M.D., professor of pediatrics, for cancer research.

Dr. Vietti is project director and senior co-investigator with Frederick A. Valeriote, Ph.D., associate professor of radiology, in a three-year \$320,321 National Cancer Institute study of the use of anti-cancer agents. NCI also will supply more than \$100,000 worth of mice yearly for chemotherapy experiments.

"We hope to find the optimal program for killing cancer cells, and at the same time establish a regimen that won't excessively damage normal tissue," Dr. Vietti said. "We also will seek to determine whether maximum cancer cell kill is obtained by single or multiple injections, or by slow intravenous infusions of a single drug."

"This is applied research," she explained, "in that if the therapeutic regimens in the mice prove effective, the programs will be evaluated in humans.

"In basic research," she continued, "it might be 10 to 20 years before observations are applied clinically, but the purpose of applied research, as we are doing, is to rapidly transfer and test the findings in clinical practice."

Dr. Valeriote, who is head of the cancer biology section of the Department of Radiology, said there are about 24 anti-cancer agents in clinical use, and researchers here will be working with numerous combinations of these in this study.

In a second project, NCI granted \$350,310 to continue research for an additional three years on cancer diseases in children.

In the last 15 years, a much broader program for the treatment of malignant diseases in children has evolved in the Washington University study. It involves not only chemotherapists, but also radiation therapists, pathologists and surgeons. The researchers utilize new and effective treatment

## Institute Grants Extend Research

regimens which have been developed in the laboratory and then apply these to afflicted children. Because of this combined effort, significant accomplishments have been made on tumor diseases.

Research on Wilm's (kidney) tumor has produced the most outstanding results with a 90 per cent cure rate for children with a localized tumor and a 50 per cent success for children with disseminated disease.

"One of the malignant tumors of muscle, rhabdomyosarcoma, which previously was thought to be hopeless, now can be treated so that most of its young victims survive their disease," Dr. Vietti said.

Strides also have been made in the treatment of acute leukemia. "The median duration of survival in children (with leukemia) used to be nine months to a year," she said. "With new methods, survival now may exceed five years. And hopefully, during this time a cure will be developed."

Patients with Ewing's sarcoma and osteosarcoma (two bone tumors) had the cure rate of 10 to 15 per cent 15 years ago. Although accurate statistics are not yet available, investigators expect that through the use of chemotherapy, survival will exceed 50 per cent.

Dr. Vietti emphasized the success of this research can be attributed to the multidisciplinary approach in which pediatric oncologists, radiation therapists, surgeons and pathologists work together to assure that each child receives optimal therapy.

Other participants in the study are A. H. Ragab, M.D., Vita J. Land, M.D., and Harold Zarkowsky, M.D., assistant professors of pediatrics; Carlos A. Perez, M.D., professor of radiology; John M. Kissane, M.D., professor of pathology and of pathology in pediatrics; Jessie L. Ternberg, M.D., professor of surgery and associate professor of surgery in pediatrics;

Lily A. Palmer-Hanes, M.D., and William B. Mill, Jr., M.D., assistant professors of radiology.

The researchers hope to establish additional treatment programs for the other malignant diseases of childhood, as well as to increase the effectiveness of those already in use.

"Present therapeutic regimens are very intense and are usually continued

for two to three years on an outpatient basis," Dr. Vietti said. "It is difficult for the child to tolerate the treatment. One of our goals is to make therapy less intense and for a shorter duration."

The researchers also hope that what they are learning about treatment of childhood tumors will be applicable to adult malignancies.

## Letters to the Editor

*In response to the request in OUTLOOK to help keep readers informed, the following was received:*

I have no achievements to report, but I am now into my eighth year of retirement amongst this stimulating community of Marco Islanders. Quite a bit of my time is spent gardening with over 100 specimens of tropical flowering and fruit bearing tropical trees and shrubs. I make my rounds as each planting becomes my patient to care for. Also I have plenty of time for golf, reading and playing my full-size church organ built into our home. I also am a substitute organist playing complete church services. In this land of sunshine, year around warmth, gorgeous sunsets overlooking the Gulf of Mexico from our hill top home, one's identity with all of nature and the eternal varieties of sky, land and water provides tranquility to the spirit and is an inspiration to meaningful meditation. I strongly recommend to every doctor, that he reserve a few of his later years to experience a bit for himself what life on this beautiful planet is meant to be, before it is too late. I treasure receiving OUT-

LOOK magazine and all the interesting news it brings to me. I just thought you would be interested.

**Roland W. Stuebner, '23**  
**1930 Indian Hill**  
**Marco Island, FL 33937**

Although I am not a physician, I did wear the green tassel of the School of Medicine at commencement and have been receiving this excellent magazine now for five years.

In my opinion, if you are sending O.T.'s and P.T.'s this magazine you obviously consider them part of the Medical School family. But why, then, are you relegating these graduates to be the "black sheep" of the family?

If you are going to send us OUTLOOK why not have an article once in a while about these very important fields of medicine.

Sincerely,  
**Gail Rose, OTR**  
**(B.S. in OT '69)**  
**2225 W. Woodbury Lane**  
**Milwaukee, WI 53209**

*Editor's note: Thanks for your letter. It prompted us to inquire about the activities leading to the story on page 16.*

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