

Summer 1984

UNIVERSITY OF MINNESOTA

# *Medical Bulletin*

A Publication of The Minnesota Medical Foundation



## **NOTICE**

The Minnesota Medical Foundation will hold its  
Forty-Sixth Annual Dinner Meeting  
on the evening of

Wednesday, October 24, 1984

at

**Cargill, Inc.**

15407 McGinty Road  
Minnetonka, Minnesota

6:30 p.m. Reception

7:30 p.m. Dinner and Program

Awards Presentation

Election of Trustees

Vote to Amend Articles of Incorporation

*Featured Speaker:*

**THOMAS J. BOUCHARD, Ph.D.**

Professor, Department of Psychology

University of Minnesota

“Identical Twins Reared Apart”

*Cost: \$25.00 per person*

*For more information call 373-8023*

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# Contents \_\_\_\_\_ Summer 1984



Elaine M. Cunningham

## Editor's Column

There are many changes taking place at the University of Minnesota Medical School. Too many to include in this issue of the *Medical Bulletin*.

This school is a vibrant and exciting place, packed with dedicated and interesting faculty and highly motivated students.

Everyday, it seems, brings news of some new and progressive research discovery. It is difficult, as an editor, to pick and choose those activities and people that readers will find the most interesting.

From this issue, however, I hope you readers will get some idea of the energy in this medical school. A new dean has taken the reins, and the school is poised to take new directions. On page 17, you can discover the challenges Dr. David Brown faces as he assumes the deanship. You can find out how the medical school has grown in the past 12 years, as Dr. Neal Gault reflects on his tenure as dean on page 20.

You will also find in this issue an article profiling a medical student who has made some significant contributions in bone marrow transplantation research. This student is just one example of the outstanding quality of medical students enrolled in this institution.

A class of medical students graduates, faculty members retire, a university president resigns . . . The changes go on and on. Read and enjoy.

Elaine Cunningham  
Editor

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**Staff:** Editor, Elaine M. Cunningham; Executive Director, Eivind O. Hoff.



Cover: More than 260 students marched across the Washington Avenue bridge on the way to Northrop Auditorium and graduation ceremonies for the Class of 1984. For more photos of this joyous occasion, turn to page 14.

## MMF approves more than \$88,000 in medical research grants

More than \$88,000 in new medical research grants was approved by the Board of Trustees of the Minnesota Medical Foundation at its quarterly meeting in July.

Fifteen faculty members and 13 students from the University of Minnesota Medical School were the recipients of the grants which varied in amounts from \$300 to \$9,000. Another \$54,045 in special grants was also approved by the board for research equipment and salary support.

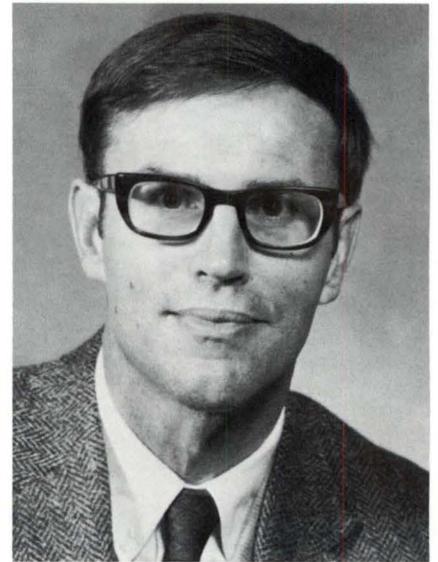
Faculty members who received MMF research grants were: **Stephen L. Archer**, medicine resident, \$2,000 for research into the control of the structure and function of the pulmonary vasculature; **Rei-Kwen Chiou**, urology instructor, \$5,000 to look at the therapy of renal cell carcinoma using monoclonal antibodies; **Andrew H. Cragg**, radiology resident, \$5,350 for research in non-surgical arterial grafting; **Ernest D. Gray**, associate professor of pediatrics, \$5,000 to study the effect of staphylococcal slime on human host defenses; **Cris Johnston**, neuropsychologist, \$4,500 to study eye movement behavior associated with attention and reading problems; **Michael Kasper**, medicine fellow, \$4,000 for research of immune complex guided red cell injury; **David J. Klein**, pediatrics instructor, \$7,500 to study the proteoglycan structure and function in the diabetic kidney; **Paul C. Letourneau**, associate professor of anatomy, \$5,000 to look at the function of proteins microinjected into growing neurons.

**Norman S. Miller**, assistant professor of neurology, \$9,000 to research protein carboxyl methylation in aging and Alzheimer's Disease; **Wesley J. Miller**, assistant professor of medicine, \$5,000 to differentiate inducers in acute leukemia; **Jonathan A. Parsons**, associate professor of anatomy, \$4,000 to look at the culture of dopamine resistant-cysteamine sensitive pituitary tumor cells; **Steven A. Sirr**, assistant professor of radiology, \$4,000 to research technetium-99m DTPA aerosol imaging

in patients with cystic fibrosis; **Robin C. Stong**, postdoctoral associate in therapeutic radiology, \$4,500 to look at potential anti-leukemia reagents for human autologous bone marrow transplantation; **Ishik C. Tuna**, surgery fellow, \$6,000 to determine mechanical and electrophysiologic correlates to cardiac allograft rejection; and **Shaokee Wu**, assistant professor of laboratory medicine and pathology, \$7,000 for research in the expression of genetic messages for T-cell maturation.

Students who received research grants were: **Howard I. Baron**, Med. III, \$1,200 for the study of daily changes in health and behavior; **Charles Catcher**, Med. III, \$1,200 to look at the role of alpha-1- antiprotease in the protection of endothelium against polymorphonuclear leukocyte injury; **Michelle Hulse**, Med. III, \$1,200 to research collagen types expressed in regenerated nucleus pulposus; **Clifford Johnson**, Med. IV, \$300 for assessing myocardial injury using fetal rat heart cells; **Jay Knuths**, Med. IV, \$1,200 to study the regulation of coronary blood flow in the post-ischemic myocardium; **Caroline A. Mason**, Med. I, \$1,200 to research rubella susceptibility in young adults; **Jaime Mayoral**, Med. IV, \$1,200 to investigate islet transplantation in mice and prevention of rejection.

**Bach-Yen T. Nguyen**, Med. IV, \$1,200 to study the inducibility of anaphylatoxin clearance; **Blake E. Reiter**, Med. IV, \$1,200 for research of post-ribosomal proteoglycan modification; **Joe Sicora**, Med. III, \$1,200 to study the effect of smoking and smoking cessation on resting metabolic rate, ventricular premature contractions, and blood lipids; **Theresa M. Smith**, Med. IV, \$1,200 to measure calcium absorption in lactose deficient subjects; **James R. Stubbs**, Med. III, \$1,200 to look at the effect of transient myocardial ischemia on coronary responsiveness; and **Amos Szajner**, Med. III, \$400 for research into donor specific tolerance in dogs.



Dr. Ashley T. Haase

## Haase named head of Microbiology

Dr. Ashley T. Haase was recently named professor and head of the Department of Microbiology at the University of Minnesota Medical School. Dr. Haase replaces Dr. Dennis Watson, who retired as the head of microbiology in June (see article on page 22).

A summa cum laude graduate of Lawrence College in Wisconsin, Dr. Haase received his medical degree from Columbia College of Physicians and Surgeons in New York. His academic honors have included membership in Phi Beta Kappa and Alpha Omega Alpha honorary societies, the Charles Denison Intern Award from Johns Hopkins Hospital, a National Institutes of Health Special Fellowship and a Medical Investigatorship from the Veterans Administration Medical Center.

Prior to coming to Minnesota, Dr. Haase was a professor of medicine and microbiology at the University of California in San Francisco. He came to the University of California in 1971 as an assistant professor of medicine and microbiology and was appointed associate professor in 1977.

Dr. Haase has also held positions as intern and resident at Johns Hopkins Hospital in Baltimore; clinical associate for the National Institutes of Health in Bethesda; visiting sci-

*continued p. 12*

## Promotion and tenure approved for 36 faculty members at U of M medical school

Thirty-six faculty members of the University of Minnesota Medical School were promoted and/or received approval for tenure in May.

Promoted from associate professor to professor with indefinite tenure were: P. Patrick Cleary, microbiology; Robert P. Elde, anatomy, Benjamin S. Leung, obstetrics and gynecology; Richard A. Meisch, psychiatry and pharmacology; and Jonathan A. Parsons, anatomy. Promoted to professor with a temporary appointment were: Wilfrido R. Castaneda-Zuniga, radiology; Frank B. Cerra, surgery; Jordan L. Holtzman, medicine and pharmacology; Richard A. King, medicine; Dennis E. Niewoehner, medicine and Alan R. Shons, surgery.

Promoted from assistant professor to associate professor with indefinite tenure were: Kenneth W. Adolph, biochemistry; Harry T. Orr, labora-

tory medicine and pathology; Patrick M. Schlievert, microbiology; and Howard C. Towle, biochemistry. Receiving temporary appointments to associate professor were: David C. Anderson, neurology; David G. Benditt, medicine; Ralph V. Clayman, urologic surgery; John H. Eckfeldt, laboratory medicine and pathology; Thomas Green, pediatrics and pharmacology; Helen M. Hallgren, laboratory medicine and pathology; Dale E. Hammerschmidt, medicine; Dana E. Johnson, pediatrics; Tucker LeBien, laboratory medicine and pathology; Robert E. Maxwell, neurosurgery; Philip B. McGlave, medicine; James E. Mitchell, psychiatry; Gordon L. Pierpont, medicine; Roger A. Potish, therapeutic radiology; Peter A. Santi, otolaryngology; Michael Y. Tsai, laboratory medicine and pathology; Daniel A. Vallera, therapeutic radiology and laboratory medicine and pathology; H. Charles Walker Jr., radiology; and George L. Wilcox, pharmacology.

Receiving indefinite tenure as assistant professor were Ian J. Gilmour, anesthesiology; and Douglas E. Koehntop, anesthesiology.

Two faculty members of the School of Medicine at the University of Minnesota-Duluth were promoted from assistant professor to clinical associate professor. They were James L. Anderson and Malcolm L. McCutcheon.

### Student council elects officers

Members of the University of Minnesota Medical School Student Council elected officers recently for the 1984-85 school year.

Winston Cavert, Med. IV, was elected president; with Kathy Severson, Med. III, serving as vice president. Other elected officers were Paula Garrett, Med. II, as secretary; Bruce Laverty, Med. II, as treasurer; and Linda Funk, Med. II, as parliamentarian.

### Runners symposium held in Duluth

A runner's clinic highlighted a running and endurance sports symposium offered by the University of Minnesota, Duluth School of Medicine in June.

The two-day symposium entitled, "Running and Endurance Sports: A Scientific Appraisal," was held in conjunction with Grandma's Marathon. Designed for both marathon runners and health care professionals, the symposium featured a "fun run" and scientific discussions.

During the "fun run," participants had the opportunity to test their skills with former Grandma's Marathon winner and world class runner Dick Beardsley. Speakers from all over the country gathered together for the scientific symposium. Discussions centered on such topics as training, nutrition, injuries, and coaching.

The running and endurance sports symposium was the sixth of an annual series of "Medical Research: Pathway to Better Health" symposiums given by the UMD School of Medicine.



World class marathon runner Dick Beardsley (center, left) and University President C. Peter Magrath led runners in a "fun run", part of the Running and Endurance Sports symposium held at the UMD School of Medicine.

## Radiation therapy opens in hospital

Phase I of the new University of Minnesota Hospitals opened Tuesday, May 22, with the official snip of a big blue ribbon.

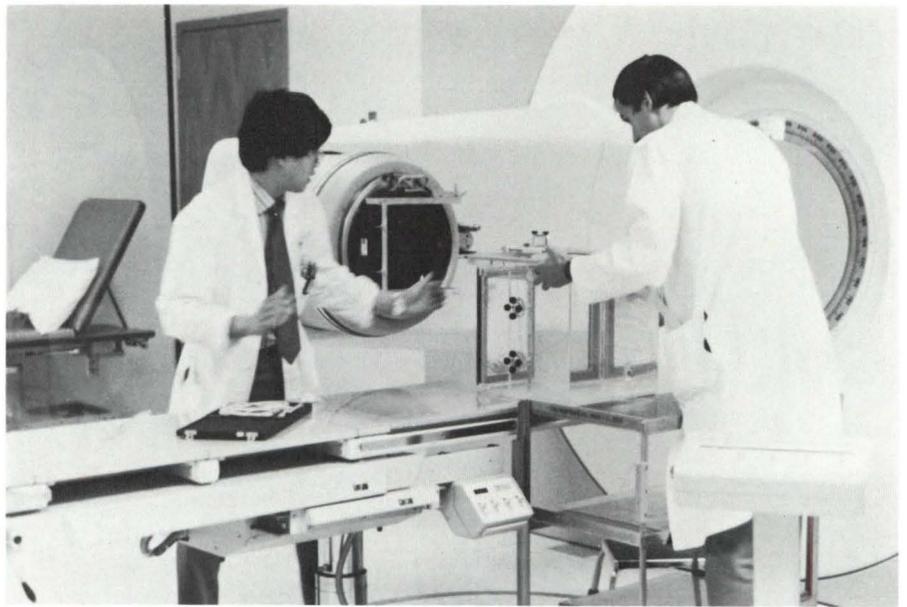
Located on the first floor of the new hospital, Phase I houses the department of therapeutic radiology, a radiation treatment facility comprising 21,000 square feet of space, including three treatment rooms and seven examination rooms.

Dedication ceremonies featured presentations by C. Edward Schwartz, hospital director; Neal A. Vanselow, vice president for health sciences; Seymour H. Levitt, department head and clinical chief of therapeutic radiology, and C. Peter McGrath, president of the university.

Levitt remarked that the new facilities will allow the department to "work in different areas, increase quality of life for cancer patients, increase cure rate and broaden horizons as far as cure is concerned." Vanselow pointed out that while the facility will be of value to patients, it will also enhance the service and education missions of other clinical units.



Dr. Neal A. Vanselow, (left) vice president for health sciences, and Dr. Seymour H. Levitt, head of therapeutic radiology, cut the ribbon which marked the opening of the University Hospitals' new radiation therapy facility.



This highly intensive, Japanese-built hyperthermia unit is located in University Hospitals' new radiation therapy center. It is the second of its kind in the United States.

The dedication ceremony and tours of the facility coincided with a continuing medical education scientific program. Radiation therapy department chairmen from around the country shared in the opening of the facility.

Among the outstanding features of the new facility is a hyperthermia or heating unit designed to treat both surface and deep-seated tumors. The machine is the second of its kind and the latest model available in the United States.

## U of M Hospital building project is \$6.2 million under budget

The new University of Minnesota Hospitals building project continues on schedule and below budget. Virtually all contracts have been awarded and the hospitals' planners are now considering the best way to use the remaining \$6.2 million of surplus funds, according to Mark Koenig, acting director of hospital facilities. The monies are left from the bond proceeds and must be used for hospital construction, renovation or to reduce the total amount borrowed, Koenig added.

A renovation and renewal steering committee has been appointed and will make recommendations on the allocation of the \$6.2 million. Among its tasks, the committee will consider renovation of the Mayo Memorial and Variety Club Heart Hospital buildings and other alternative uses of the remaining funds — such as buying back some of the hospital bonds — and comparing the relative cost savings of such options with that

produced from renovation. The committee also will make recommendations to the hospital director regarding hospital requirements for and allocation of vacated space in Mayo and Variety once the designated departments have moved to the new hospital, Koenig said.

Members of the renovation and renewal steering committee include Cliff Fearing, director of finance and acting chairman; Dr. David Brown, medical school dean; Dr. Thomas Ferris, professor and chief of medicine; Dr. Neal Gault, former dean of the medical school; Greg Hart, senior associate director and director of operations; Dr. James Moller, chief of staff; Barbara Tebbitt, senior associate director and director of nursing; and Dr. Roby Thompson, professor and head of orthopaedics. The director of planning and marketing, (currently a vacant position) will assume the committee chair upon arrival.

## Native American Indian program at UMD encourages med students

Nancy Sandoval knows good advice when she hears it. Sandoval, a first-year student at Stanford University, had been thinking about a career in medicine when she met Marla Gokee, a former medical student at the University of Minnesota-Duluth.

"She told me about the UMD School of Medicine's Native Americans into Medicine (NAM) program and that it would either encourage or discourage my interest in becoming a doctor," Sandoval said. "If I wanted to be a doctor, I'd know. If not, I'd know, too." Sandoval enrolled in the UMD NAM program this past summer and got her answer.

Unlike the majority of Native American students, Sandoval has decided to become a doctor.

But before the NAM program, and a few others like it around the country, Sandoval wouldn't have had much chance for that dream to come true.

In 1970, only 18 American Indians were enrolled in medical colleges across the United States. Today, the number has grown to 258, although the representation of Native Americans in the medical field remains the lowest of any minority in the U.S.

The purpose of the NAM program is to acquaint Native American high school seniors, college students, and postbaccalaureate students with a sampling of medical career course offerings.

In fact, the NAM program was established for essentially the same reason as the School of Medicine: to help fill the need for family practice physicians in rural and non-urban areas.

After all, reasoned a group of Indian leaders, who needed physicians in rural and non-urban areas more than American Indian populations?

In 1972, representatives of that group met with Robert E. Carter, dean of the newly-formed UMD School of Medicine. As a result of that meeting, Robert Pozos, then assistant professor of physiology at the medical school and one of the first faculty members to arrive, applied to the Health Manpower Branch of

HEW for a grant to fund a Native Americans into Medicine program at Duluth.

The first award was made July 1, 1972 and has been renewed annually ever since.

Under NAM, students attend a six-week summer mini-medical program at UMD. They study anatomy, physiology, immunology, physical diagnosis, and cardiopulmonary resuscitation (CPR). They become acquainted with medical terminology and library use.

Laboratory work in each of these fields is an integral part of the curriculum, says Robert Diver, community programs specialist at the UMD medical school. By the time students complete the course, most know if a medical career is for them, Diver says.

Mitchell LaDue is also a student in this year's NAM program. He just completed his junior year at North Dakota State University.

LaDue wanted to become a doctor but, because of a medical problem, has had to change his career goal. His goal now is to become a hospital administrator.

LaDue was fortunate enough to have a good medical role model. His uncle is a doctor. In fact, his uncle was in the 1972 charter class at the UMD School of Medicine.



Lisa Gross and Mitchell LaDue check an EKG printout during the Native Americans into Medicine summer program at the UMD School of Medicine.

Another student in the program, Anthony Genia, who will be a senior at Augsburg College, feels keenly the underrepresentation of Indians in the medical field. His goal is to become a surgeon.

"I've known since high school that was what I wanted," he says. He has applied to the University of Minnesota Medical School in the Twin Cities.

Genia, too, had a medical role model. His mother is an ophthalmologic technician at the University of Minnesota Hospitals. "She was the one that got me interested in the health field," he says.

Lisa Gross, another student in the program, just graduated from high school. She will attend Concordia College in Moorhead this fall and she, too, plans to become a doctor.

These Native American students — only 15 in all — are slowly helping to change a world that still places Native Americans on the bottom of the list in medical careers.

## Dr. White named Regents' Professor

Dr. James G. White, professor of pediatrics and laboratory medicine and pathology, was awarded a Regents' Professorship, the highest recognition given by the University of Minnesota to members of its faculty.

Regents' professors are judged to be of outstanding academic distinction, based on the scope and quality of their scholarly or artistic contributions, the quality of their teaching and their contributions to the public good. Once named a regents' professor, faculty members hold the title for as long as they remain at the university. They receive an annual gift of \$5,000 from the university and a sterling silver medallion.

Dr. White received his medical degree from the University of Minnesota in 1955. He remained at Minnesota for his internship, residency program, and fellowship. In 1970, he was promoted to a professor of pediatrics and in 1973 he was named professor of laboratory medicine and pathology.

When Dr. White retires from the university, he will become a regents' professor emeritus.

# MMF announces 1984 award winners

The Minnesota Medical Foundation sponsors a number of awards throughout the year to honor the faculty and students of the University of Minnesota Medical School. In recent months, MMF has presented 12 different awards to honor four faculty members and 21 students. Congratulations to the following award winners.

## Bacaner Awards

Six \$500 Bacaner Awards are given annually by the Minnesota Medical Foundation to graduate students in the medical school's basic sciences departments in recognition of their excellence in research.

Awardees are chosen by the faculty members of their respective departments. The 1984 Bacaner Award winners are: **Dr. Douglas G. Anderson**, Department of Microbiology, for his research of "Genetic and Physical Characterization of Recombinant Plasmids Associated with Cell Aggregation and High Frequency Conjugal Transfer in *Streptococcus Lactis* ML3."

**Dr. Edward G. Hames**, Department of Physiology, for his research on "The Properties of the Dorsal Spinocerebellar Tract."

**Dr. Robin L. Michaels**, Department of Anatomy, for his research on "Dye Coupling and Junctional Communication Between Cells of the Rat Pancreatic Islet of Langerhans."

**Dr. Larry M. Tremaine**, Department of Pharmacology, for his research of "In Vivo Quantification of

Individual Organ Contribution to 1-Naphthol Conjugation and Renal Transport of Dicarboxylic Acids."

**Dr. James W. Whittaker**, Department of Biochemistry, for his research in "Mechanistic Studies of Intradial Dioxygenase."

**Dr. John K. Wiencke**, Department of Pathology, for his research called "A Study of the Factors Influencing the Introduction of Sister Chromatid Exchange by Chemical Carcinogens in Human Lymphocytes."

## Leonard P. Burke Award

**Dr. Norris Anderson** was the 1984 winner of the Leonard P. Burke Award. The \$750 Burke Award has been given annually since 1979 to an outstanding resident in the Department of Family Practice and Community Health.

## Nathan Lifson Award

**Dr. Joseph C. Kolars**, a medical fellow in the Department of Medicine, is the winner of the first annual Nathan Lifson Award for excellence in research on gastrointestinal function. Dr. Kolars was selected for the award on the basis of his paper, "Yogurt - An Autodigesting Source of Lactose." This \$1,000 award is named in honor of Dr. Nathan Lifson, a long-time distinguished professor in the Department of Physiology, who retired in 1981. Funds for the award are derived from contributions to the Minnesota Medical Foundation by Dr. Lifson's former students and colleagues in physiology and gastroenterology.

## Teacher of the Year Awards-UMD

**Arlen Severson**, professor of biomedical anatomy, was named University of Minnesota, Duluth (UMD) School of Medicine Basic Science Teacher of the Year for 1984. He received the award and a check for \$500 at the UMD medical school awards ceremony in July.

Severson, who joined the UMD School of Medicine faculty in 1972, has won the award four times.

Named as 1984 Clinical Science Teacher of the Year was **Dr. Thomas Elliott**, associate professor of clinical medicine at the UMD School of Medicine. He also received a check for \$500 at the awards ceremony.

Teacher of the Year awards have been given since 1975 and are voted on by second-year students at the UMD medical school.

## Cyrus P. Barnum, Jr. Memorial Teaching Fellowship

Three graduate students in the Department of Biochemistry were cited for their teaching contributions with the Cyrus P. Barnum, Jr. Memorial Teaching Fellowship. The award carries with it a \$300 cash prize.

The winners were recommended to the Minnesota Medical Foundation for the honor by the faculty of the Department of Biochemistry. 1984 Barnum Fellowship award winners are **Jeou-Yuan Chen**, **Ronald Freund**, and **Marilyn L. Keeler**.



Susan J. Cushman  
Medical Student Achievement Award winner



Mary C. Kemen  
Medical Student Achievement Award winner



Cheri L. Olson  
Medical Student Achievement Award winner

The fellowship was named in honor of Dr. Cyrus P. Barnum, Jr., a highly qualified and greatly respected medical educator at the University of Minnesota from 1942 to 1965, when he died at the age of 51.

Given since 1966, the Barnum Fellowships in biochemistry recognize the high professional standards that Dr. Barnum brought to the field of basic science teaching and research.

### **Gail Parker Eady Memorial Award**

**Gregory M. Crump** was selected as the winner of the 1984 Gail Parker Eady Memorial Award. This award is given annually to a student among the minority members of the senior class in medicine at the University of Minnesota, who has devoted exceptional service to fellow students. In addition to the award, the winner receives a \$500 cash gift.

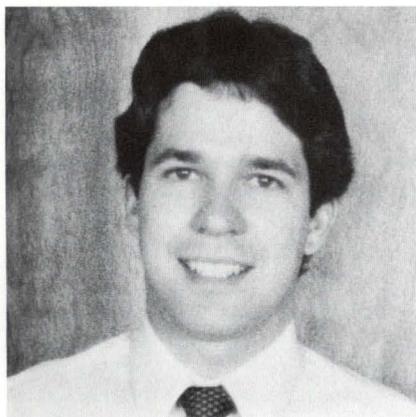
The award is named in memory of Dr. Gail Parker Eady, a graduate of the Class of 1980.

### **Herbert G. Lampson Memorial Award**

Medical students in the sophomore class at the University of Minnesota, Duluth School of Medicine selected **Janet Wilmes** as the 1984 recipient of the Herbert G. Lampson Memorial Award.

This \$100 award has been given annually since 1976 to a female student at the UMD School of Medicine who exemplifies all-around achievement. Wilmes was selected on the basis of her academic standing and her contributions to fellow students.

Dr. Herbert G. Lampson, for whom the award is named, was the first full-time county health officer of St. Louis County.



**Richard R. Owen**  
Medical Student Achievement Award winner

### **J. Thomas Livermore Award**

**Daniel E. Stepan** received the 1984 J. Thomas Livermore Memorial Award for student achievement in research.

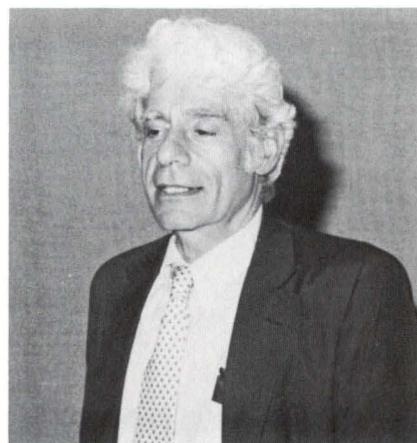
This award of \$1,000 has been given annually since 1971 to a medical student who has accomplished outstanding original research in the field of hematology. (For more on Stepan and his research, see the Profile article on page 13.) The Livermore Award is made possible by the contributions of the family of Tom Livermore, who died of leukemia at a young age.

### **Medical Student Achievement Awards**

Given annually by the Minnesota Medical Foundation, the Medical Student Achievement Awards recognize exceptional individual achievement in student leadership, scientific research, academic attainment or community service. In 1984, four fourth year medical students were selected to receive the \$1,000 achievement award after being nominated by faculty members, fellow students or student organizations. This year's winners were:

**Susan J. Cushman:** Cushman has been a volunteer for a local community clinic and a co-founder of the Melpomene Institute for Women's Health Research. She has co-authored several research papers on menstruation and pregnancy in physically active women. A competitive distance runner, she received the 1981 Moving Comfort Award as Minnesota Runner of the Year and she was named an Outstanding Young Woman of America in 1982. Her high academic ability resulted in her election to Alpha Omega Alpha in her senior year.

**Mary C. Kemen:** Kemen has been active in several student organizations including the Medical Student Council, the Ethics Committee and the Minnesota Alumni Society. She served as Class President in her second, third and fourth years in medical school. She has also been a volunteer in Amnesty International, the Sierra Club and at the Fremont Clinic. Her scholastic achievements have been recognized as she has received the University of Minnesota



**Marvin Bacaner** was present at the Bacaner awards dinner. The six basic science's Bacaner awards are named in memory of his parents Jacob and Minnie Bacaner.

President's Leadership Award, the Eloise Butler Award in Botany and the German Academic Exchange Service Scholarship. She has prepared papers on "Special Considerations for Myasthenia Gravis in Anesthesia" and the "Role of Cyclic-AMP in the Etiology of Meriera's Disease."

**Cheri L. Olson:** Olson has been active in university co-recreational sports including football, broomball, volleyball and softball. She also volunteered to provide first aid assistance at university sponsored events as a member of the Emergency Rescue Team. She opted to spend her free time during medical school in a preceptorship in anesthesiology working in a local emergency room. In the top five percent of her medical school class, Olson was elected to Alpha Omega Alpha in her junior year. She served as president of AOA during her senior year.

**Richard R. Owen:** Owen scored in the 99th percentile on Part I of his National Board Examination. He was also elected to Alpha Omega Alpha in his junior year. In 1983, Owen was selected to work in the laboratory at England's Clinical Research Center in Harrow. As a result of his work there, he has authored two manuscripts on schizophrenia research which have been accepted for publication. In addition to his studies, Owen found time to serve on several student committees including the Curriculum Task Force, the Biomedical Ethics Committee and the Min-

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Eivind O. Hoff, executive director of the Minnesota Medical Foundation, presents one of six Bacaner awards to Dr. John K. Wiencke from the Department of Pathology.

## MMF announces award winners

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nesota Medical Foundation's Phone-a-thon project.

### Mary Bizal Peterson Memorial Fellowship

Pamela Rae Leonard received the 1984 Mary Bizal Peterson Memorial Fellowship. This \$500 award is intended for a meritorious student embarking upon a first year residency in the Department of Neurology at the University of Minnesota.

The award is made possible by gifts to the Minnesota Medical Foundation by Dr. Edward Nohl Peterson of Virginia, Minnesota in memory of his late wife.

### Reino Puumala Memorial Award

The 1984 Reino Puumala Memorial Award went to Eugene Rigstad. This \$100 award goes to a medical student at the University of Minnesota, Duluth School of Medicine, who shows exceptional promise in the field of family practice.

The award has been given annually since 1977 in honor of Dr. Reino Puumala, who was a long-time family physician in Cloquet, Minnesota.

### Arnold Lazarow Graduate Fellowship

The 1984 Arnold Lazarow Grad-

uate Fellowship was awarded to James Hammarback to assist him in obtaining training in cell physiology at the Marine Biological Laboratory in Woods Hole, Maine.

The Lazarow Fellowship, awarded since 1979, goes to students selected by the Department of Anatomy to assist them in a summer study program at an anatomy laboratory. Dr. Arnold Lazarow, who died in 1975, was a former head of the Department of Anatomy and a distinguished scientist.

## Caldecott resigns

Richard S. Caldecott, dean of the College of Biological Sciences, resigned on June 15 to become an advisor to University President C. Peter Magrath on technology-transfer projects aimed at strengthening ties between the university and the business community. Kenneth Keller, vice president of academic affairs, said that after almost 20 years as dean, Caldecott "is looking for new challenges, and we have some for him." Douglas Pratt, head of the botany department, was named acting dean.

## Device measures age of the heart

A device that can measure the biological age of the heart by detecting and quantifying a subtle heart-lung biological rhythm has been invented at the University of Minnesota. A description of the highly technological yet overtly simple medical device and the research into the body rhythm that makes it work was published in the June issue of the journal *Science*.

The device, called a Sine-o-graph pulse monitor, provides a measure of heart function and general cardiovascular fitness and can also be used to assess the effects on the heart of various diseases and of drugs, especially those used in cancer treatment. It should ultimately prove useful in locations as diverse as research centers and hospitals and health clubs, according to inventor William Hrushesky, chronobiologist and cancer researcher at the University of Minnesota's Masonic Cancer Research Center.

The device provides results non-invasively and in less than two minutes. Through attachment to a computer, a small sensor clipped to the ear lobe measures the pulse and a mouthpiece measures breathing rate. A video display screen instructs the person being monitored when to deliberately inhale and exhale into the mouthpiece depending upon the heart rate registered simultaneously. The software designed into the computer provides a number value for the heart-lung rhythm, called the respiratory sinus arrhythmia. The results are compared to a table of scores gleaned from some 500 healthy adults of all ages. Higher numbers characterize younger people, lower numbers older people.

The result yields the heart's biological age not only because of the comparison sample but also because of information about the respiratory sinus arrhythmia, which has been assembled over the past 250 years and added to only recently by Hrushesky. First noted in 1733, this rhythm has long been known to show—somehow—changes in heart rate during breathing. Quantifying these

continued p. 19



Arnette Nelson

## Nelson joins MMF in annual giving

Arnette Nelson has joined the staff of the Minnesota Medical Foundation as director of annual giving.

In her new position, Nelson is responsible for fund-raising programs with alumni, parents, faculty and friends of the University of Minnesota Medical Schools in Minneapolis and Duluth.

Nelson comes to the Minnesota Medical Foundation from Ripon College in Ripon, Wisconsin, where she served as director of college relations since 1977. Prior to that, she was assistant to the college editor at Bowdoin College in Brunswick, Maine. Nelson has also held positions as a program developer for the Upward Bound program, English instructor at the University of South Dakota, and English teacher at both Elk Point Senior High School in South Dakota and LeCente Junior High School in Minnesota.

A graduate of Gustavus Adolphus College, Nelson received a bachelor's degree in history and English. She also holds a master's degree in English from the University of South Dakota.

## Two medical school faculty receive 1984 Horace T. Morse — Amoco Award

Verna L. Rausch, professor of laboratory medicine and pathology at the University of Minnesota Medical School, and D. Peter Snustad, professor of genetics and cell biology in the College of Biological Sciences, were among nine University of Minnesota faculty members who received the 1984 Horace T. Morse-Amoco Foundation Award for Outstanding Contributions in Undergraduate Education.

Recipients of this award are selected in a university-wide competition by a faculty-student subcommittee of the Senate Committee on Educational Policy. Winners are judged to have made outstanding contributions to undergraduate education through teaching and advising, curriculum development and

leadership within the teaching profession. The award carries a \$1,000 gift and a numbered, limited-edition sculpture designed to symbolize the striving for excellence in teaching. The sculpture was created by the late Katherine E. Nash, professor emeritus of studio arts and a former recipient of the Morse-Amoco award.

Named for a former dean of the general college, the award is made possible through a grant from the Amoco Foundation. This year's recipients bring the number of Morse-Amoco winners over the past 19 years to 125.

Rausch has been with the university for 40 years and has guided the medical technology education program from its infancy to a fully integrated program. Her deep interest in students is evident in her stimulating courses, her helpful advice, and her editorship of *Tech's Talk*, an alumni newsletter.

Snustad is a researcher in molecular genetics and is equally committed to undergraduate education. He is known for his ability to present complex information in clear and exciting ways, his enthusiastic and able guidance, and his co-authorship of the most widely used genetics textbook in the country.

## Pediatric neurosurgery division established

The University of Minnesota's Neurosurgery Department has recently formed a division of pediatric neurosurgery, because pediatric neurosurgery has become a "clearly defined subspecialty of surgery," according to Stephen Haines, assistant professor of neurosurgery at the university and one of the physicians primarily responsible for the new division's service.

Haines and Edward Seljeskog, professor of neurosurgery at the university, will perform general neurosurgical services, as well as microneurosurgery and laser neurosurgery, and will treat disorders unique to children, such as hydrocephalus or excessive fluid on the brain.

In addition to these surgical services, special treatment will be available, in cooperation with other medical disciplines, for children with spina bifida, epilepsy and cranial-facial disorders.

Haines said that the division handles approximately 100 cases per year. "We in pediatric neurosurgery are very interested in improving and expanding neurological care for children," he said.

## AMA grants \$19,792 to Medical school

The University of Minnesota Medical School received a \$19,792 donation from the American Medical Association Education and Research Foundation (AMA-ERF). Only 15 schools in the nation received larger gifts than Minnesota.

More than \$1.5 million was distributed by the AMA-ERF to medical schools in the United States and Canada. Some of this year's donations were earmarked for student assistance. Most of the funds, however, were for the unrestricted use of the medical schools' deans in areas they felt important.

## MMF board member William Stocks retires

William Stocks, a board member of the Minnesota Medical Foundation since 1980, will retire as chairman and chief executive officer of the Peavey Company at the end of the year. He will continue as a director of ConAgra Company, the Omaha Company that acquired Peavey in 1982.

Stocks joined Peavey Company in 1956. He was named vice president of finance and treasurer in 1968, executive vice president in 1974, president and chief operating officer in 1975 and chairman and chief executive officer in 1976.

## Bagley scholarships awarded at UMD

Two University of Minnesota, Duluth (UMD) School of Medicine students were recipients of the Dr. Charles M. Bagley Scholarship award.

Robert Stocker and Douglas Griffin received the \$600 awards at the Parent's Day ceremony at the UMD medical school in May. Both are second-year students at the school.

The scholarship was established in 1981 in recognition of Charles M. Bagley, a long-time Duluth physician. It is awarded to one or more second-year medical students who show exceptional promise in clinical medicine.

Bagley, a surgeon, began his medical practice in Duluth in 1938. He has been active in state and local medical and surgical organizations.



Dr. Charles M. Bagley presents a scholarship award, named in his honor, to Douglas Griffin, a UMD medical student.



Nearly 300 people attended Parents Day at the UMD School of Medicine. The event is sponsored to show appreciation for the support parents give to medical students.

## Medical student parents tour Duluth School of Medicine

Nearly 300 people attended the second annual Parent's Day held in May at the University of Minnesota, Duluth (UMD) School of Medicine. The event is sponsored to show appreciation for the support given to medical students by their families.

The day-long event included tours of the medical school, a slide show, presentation of the Charles M. Bagley Scholarship Awards, and an opportunity for parents, students and faculty to become better acquainted. Speakers at Parent's Day included

Dr. Paul Royce, UMD medical school dean; Dr. Jack Grachek and Erwin Goldfine, a member of the University of Minnesota Board of Regents.

Parent's Day is sponsored, in part, by the Minnesota Medical Foundation.

## Dr. Keys receives recognition award

Dr. Ancel Keys, professor emeritus in the University of Minnesota School of Public Health and former director of the Laboratory of Physiological Hygiene, received the Regents' Award of Special Recognition given to university alumni and faculty who distinguish themselves in their profession.

Keys retired in 1972 after 36 years at the university, 26 of them as director of the laboratory. While at the university, Keys conducted pioneering research on cholesterol and heart disease, as well as other studies to, in Keys's words, "find out before people get sick why they get sick." He is the author of *Eat Well and Stay Well*, a best-seller, and the two-volume *Biology of Human Starvation*.

## Medical school gets bequest of \$183,000

The University of Minnesota Medical School received in excess of \$183,000 for medical research from the estate of Harry Foley, a farmer from Winnebago.

Foley, who died in October of 1982, bequeathed 43 percent of his estate to the university, to be used in equal shares for heart and cancer research. The bulk of his estate came from the sale of the Foley farm which had been in his family for more than 100 years. Foley was 78 when he died.

## Swinyard receives achievement award for pharmacology research

A University of Utah pharmacologist whose research on anticonvulsants led to several new drugs to control epilepsy has received an Outstanding Achievement Award from the University of Minnesota.

Ewart A. Swinyard, professor emeritus of pharmacology at Utah, received the award during the graduation ceremonies of the University of Minnesota Medical School on June 1. The Outstanding Achievement Award is given to alumni of the University of Minnesota who distinguish themselves in their professions. Selections are made following an extensive evaluation process by the university faculty honors committee.

"Dr. Swinyard's early work did much to lay the foundation for our current understanding of the pharmacodynamics of (several) anticonvulsant agents and led to significant therapeutic outcomes," said Lawrence Weaver, dean of the College of Pharmacy at the University of Minnesota.

Swinyard earned a master of science degree in pharmacology from the University of Minnesota in 1941. His Ph.D. in the discipline came from Utah in 1947. It was one of the first awarded by that university. He received a bachelor's degree in Zool-

ogy from Utah State University in 1932 and a second degree in pharmacy from Idaho State in 1936.

After serving as an instructor of pharmacy at Idaho State University for nine years, Dr. Swinyard joined the faculty of the University of Utah in 1945. He has held teaching appointments there in both the College of Medicine and the College of Pharmacy. He also served as the dean of pharmacy at Utah from 1970 to 1976.

## Portoghese receives 1984 Volwiler Award

Philip S. Portoghese, professor of medicinal chemistry at the University of Minnesota College of Pharmacy, received the 1984 Volwiler Award for outstanding accomplishment in research from the American Association of Colleges of Pharmacy (AACP).

The award, now in its eighth year, is sponsored by Abbott Laboratories in honor of former Abbott president and research director Dr. Ernest H. Volwiler. Presentation of the special Volwiler gold medal and a \$5,000 cash prize was made at the AACP annual meeting in Baltimore on August 1.

Portoghese has made major contributions in medicinal chemistry and, in particular, to structure activity relationships of analgesics and narcotic antagonists. He has written more than 100 scientific articles and has lectured frequently in this country and abroad. He was named editor of the American Chemical Society's *Journal of Medicinal Chemistry* in 1972.

Portoghese received his bachelor's degree in pharmacy and his master's degree in physical pharmacy from Columbia University and received his Ph.D. in pharmaceutical chemistry from the University of Wisconsin in 1961. He joined the faculty of the University of Minnesota in 1961 and became professor of medicinal chemistry in 1969. He was named head of the medicinal chemistry department and director of graduate studies in the College of Pharmacy in 1974.



Pamela Petrequin, recipient of the first Ph.D. degree granted by the UMD School of Medicine.

## First Ph.D. degree granted at UMD

The first Ph.D. degree to be awarded through the University of Minnesota, Duluth (UMD) School of Medicine has been granted to Pamela R. Petrequin.

Petrequin, a native of Cleveland, Ohio, did her graduate research under the direction of Arthur G. Johnson, head of the UMD School of Medicine's Department of Medical Microbiology and Immunology.

Her research involved studying the effect of polyadenylicpolyuridylic acid complex and other adjuvants on the immune system of aging mice.

Petrequin holds a bachelor's degree in biology from Dartmouth College, and a master's degree in microbiology from Case Western Reserve University in Cleveland.

In August, she began a post-doctorate fellowship at the University of Michigan, Ann Arbor.

## Gedgaudas heads AARS

Dr. Eugene Gedgaudas, professor and head of the Department of Radiology at the University of Minnesota, was recently elected president-elect of the American Roentgen Ray Society (ARRS). The ARRS is the oldest radiology professional society in the western world, and is considered the senior society of radiologists in the United States.

## Boulger receives public health grant

James G. Boulger, associate dean of admissions and student affairs at the University of Minnesota, Duluth (UMD) School of Medicine, has received a \$58,000 grant from the Department of Health and Human Services, U. S. Public Health Service, to enhance the family practice curriculum at the UMD medical school.

Since its establishment in 1972 to help fill the need for family practice physicians, the UMD School of Medicine has consistently led the nation in the percentage of its students who choose family practice as their career choice.

Boulger, who joined the medical school staff in 1974 as associate dean and associate professor of behavioral sciences, holds a Ph.D. in psychology from the University of Minnesota.

## Magrath resigns as U of M president

University of Minnesota President C. Peter Magrath will leave Minnesota in October to become president of the University of Missouri in Columbia it was announced in June.

Magrath has been president of the University of Minnesota since 1974. Prior to that, he was president of the State University of New York at Birmingham and served in several teaching and administrative roles at the University of Nebraska, Lincoln, and Brown University in Rhode Island.

"The decision to leave Minnesota, which developed over the past six months, was not easy," said Magrath in a prepared statement, "but it is the right one, both for me personally and for the University of Minnesota." Citing the importance of the university's nationally recognized planning efforts, Magrath continued, "The university is fundamentally healthy, having come through a difficult fiscal period — perhaps the worst in its history — with its core programs intact, its educational ideals still vibrant and sound plans for its future."

Kenneth H. Keller, vice president of academic affairs, will serve as interim president while the Board of Regents conducts its search for Magrath's replacement.

## Med school facilities will be remodeled

Remodeling of the microbiology and public health facilities are among the major building projects slated for the University of Minnesota. A bonding bill passed in April by the 1984 Minnesota Legislature includes almost \$58 million for building and remodeling at the university.

The biggest item is \$21 million for a major renovation of Smith Hall, the chemistry building on the Twin Cities campus. The 1913 vintage chemistry facilities have been obsolete and overcrowded for years.

The remodeling of the microbiology and public health facilities, funded at \$8.2 million, will involve several floors of the Mayo Building.



Theda Star, director of rehabilitation at Oklahoma State Department of Mental Health, was one of the speakers at the American Indians/Alaskan Natives in Biomedical Research Careers conference held at UMD.

## UMD medical school hosts programs for American Indians in medicine

Two national Native American Indian medical conferences took place in Duluth in July and August.

The 13th annual meeting of the Association of American Indian Physicians (AAIP) was held July 31 to August 4 at the Fond du Lac Indian Reservation, near Duluth. In conjunction with that meeting, the first American Indians/Alaskan Natives in Biomedical Research national conference was held in Duluth at the University of Minnesota, Duluth, School of Medicine, July 31 through August 3.

Some 300 people turned out for the AAIP conference, hosted by the Fond du Lac Reservation and co-sponsored by the UMD School of Medicine and the Mash-Ka-Wisen Treatment Center. Fifty to 75 American Indian physicians were among the participants who listened to presentations on chronic diseases which affect American Indians including diabetes, obesity/nutrition, hypertension, and cardiovascular diseases.

According to AAIP figures, there are currently 311 American Indian physicians located in 24 states throughout the United States. Statistically, however, the representation of American Indians in the medical field remains the lowest of any mi-

nority group in the United States.

Some 150 participants attended the Native American/Alaskan Natives in Biomedical Research conference slated at the medical school. This conference, sponsored by the National Institutes of Health (NIH), focused on the problems faced by Native Americans and Alaskan Natives in entering graduate careers in biomedical science. It was the first such national conference ever held in the United States.

## Haase joins staff continued from page 1

entist at the National Institute for Medical Research in London, England; and chief of the Infectious Disease Section and clinical investigator at the Veterans Administration Medical Center in San Francisco.

Dr. Haase has co-authored more than 20 published research manuscripts, many of them on the visna virus group of infections. He is a member of the American Society for Microbiology, the Western Society of Clinical Investigators, the American Society of Clinical Investigators and the Western Association for Physicians.

## Dan Stepan receives Livermore Award for research

When Dan Stepan was 11-years-old, he received a book on anatomy from his parents. It was a children's book with cartoon drawings, but it was inscribed, "To our future doctor." Even at that young age, Stepan knew he wanted to be a doctor.

"I never even had a good back-up plan if I didn't get into medical school," he says.

Fortunately, Stepan was accepted into the University of Minnesota Medical School. Now in his fourth year, he is well on his way to becoming a doctor. So far, he has been an outstanding student. He received a Zagaria Fellowship in Oncology from the Minnesota Medical Foundation in 1982 to conduct research in the area of bone marrow transplantation in the laboratory of Dr. Tucker W. LeBien. The results of that research earned him the 1984 J. Thomas Livermore Award for student achievement in hematology research.

Stepan's major interest upon entering Dr. LeBien's laboratory was in exploring the variables influencing the *ex vivo* elimination of leukemic cells from bone marrow using three monoclonal antibodies which had previously been produced in Dr. LeBien's laboratory. He started by exploring some of the variables, using assays designed to detect residual leukemic cells present in excess bone marrow.

"From the beginning," says Dr. LeBien, "it was apparent that Dan had extraordinary laboratory skills. He quickly became facile with the variety of laboratory techniques he was employing, including cell culture, immunofluorescence, and <sup>51</sup>Cr-release cytotoxicity. He worked ambitiously long hours, demonstrated unusual interpretive acumen, and quickly became familiar with all the literature relevant to his research project." Stepan was excited by his research project, but it soon became apparent that to complete it, he would need more time than the three months originally agreed upon.

"I wanted to discover something someone else hadn't observed in the past," Stepan recalls. "I didn't want

to quit, so I decided to take a year off of school."

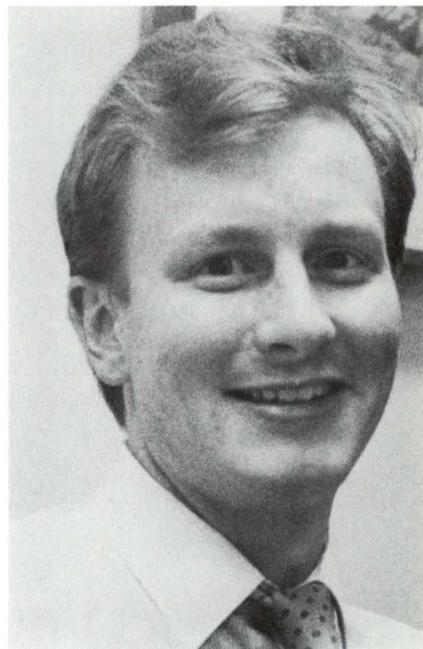
He also needed funding, as his three-month Zagaria Fellowship had ended. He applied and was approved for a National Institutes of Health grant for another three-month period.

Back in the lab, his research was showing results. He developed a leukemic cell line clonogenic assay which was more sensitive than the assay previously used. With his clonogenic assay, it could be determined that 99.99 percent of leukemic cells were being killed in bone marrow treated with the mixture of monoclonal antibodies and complement.

"The previous release assay was not as sensitive," says Stepan. "We only knew that it was killing more than 95 percent of leukemic cells."

Stepan's experiments also had an impact on the ongoing clinical protocol involving the utilization of the three monoclonal antibodies and complement for treatment of bone marrow in autologous bone marrow transplantation. His findings showed that by treating bone marrow three times with the mixture of monoclonal antibodies and complement before transplantation, it increased the number of leukemic cells killed. Furthermore, he noted that decreasing the concentration of antibodies in the mixture further increased the number of cells killed. He also found that by adding DNase to the mixture, the clumping that had been occurring around leukemic cells and protected them from being killed, was prevented. Since Stepan's research, the clinical protocol used has been changed to incorporate his findings.

Another result of Stepan's research was his observation that the antibodies worked effectively with human serum complement. This was quite a finding since it was generally accepted that mouse monoclonal antibodies were ineffective as lytic agents in the presence of human complement. Stepan had observed something no one else had previously. He documented this phenomenon and his work was recently published in the journal *Blood*.



Stepan viewed his year in the research laboratory as a great opportunity, but there were a few drawbacks. He used most of his personal savings to finance his last few months in the laboratory and he delayed his graduation by a year.

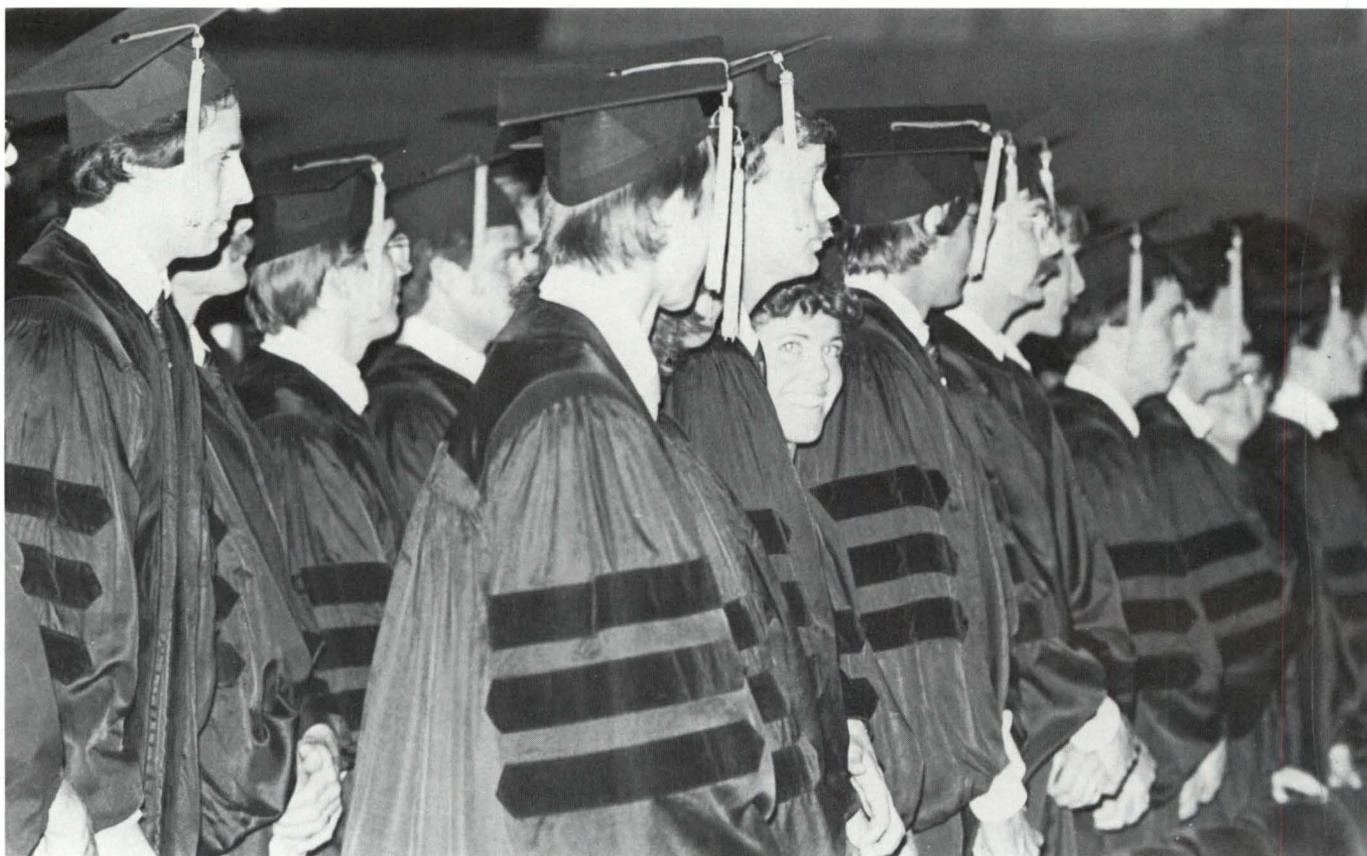
"It was difficult," he says "to watch my classmates graduate this year and realize I still have a year to go."

But, he looks to the future and his medical career. After graduation, his "dream program" is a residency in internal medicine at the University of Washington in Seattle. "They have a good bone marrow transplantation program," he says.

A life-time Minnesotan from St. Paul Park, Stepan would like to leave the state after graduating, but he sees himself returning eventually to practice. What that practice would be in is undecided at this point. He admits to being fascinated by research but loves to work with patients, too. He thinks a fellowship in hematology/oncology would be extremely interesting. He enjoys working with the elderly but also loves pediatrics. He also thinks he'd enjoy teaching.

"I have too many interests and not enough dislikes," he admits.

Whichever medical field Stepan decides to pursue, he has already demonstrated some important traits needed for success. In Dr. LeBien's words, Stepan has "competitive fiber, intelligence, and tenacity."



## Graduation Day for the Class of 1984

They started their procession at the medical school. More than 260 students dressed in traditional black robes formed two columns and marched around Coffman Memorial Union, across the Washington Avenue bridge and up the mall to Northrop Auditorium. It was to be their last few hours as medical students. When they marched out of Northrop Auditorium, they would have their degrees. They would be officially doctors of medicine.

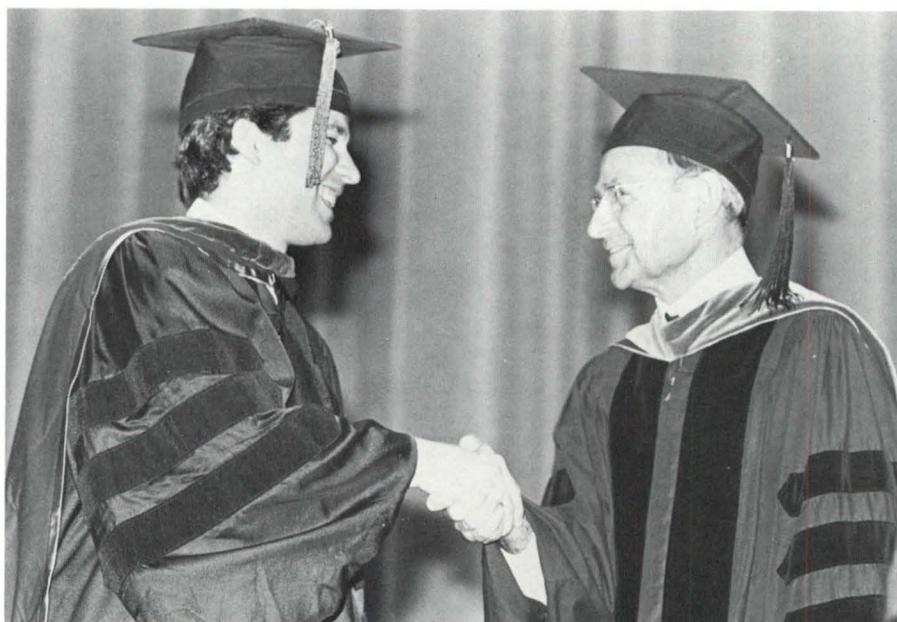
June 1, 1984 - Graduation Day. It was a joyous occasion for the 268 members of the University of Minnesota Medical School Class of 1984. Dean Neal L. Gault welcomed the graduates as the ceremonies began. It was his thirteenth and final graduation appearance as dean.

During the ceremonies, many students were recognized for their achievements with a variety of awards, including the Minnesota Medical Foundation's Student Achievement Awards, Undergraduate Research Award, Gail Parker Eady Memorial Award and Mary Bi-

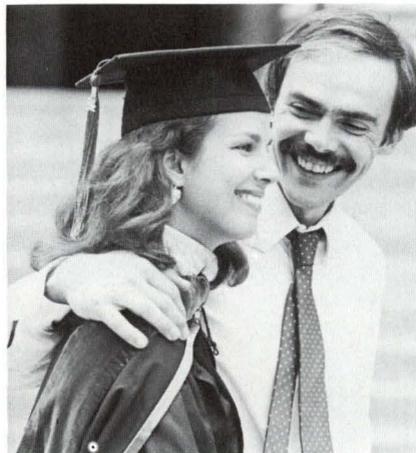
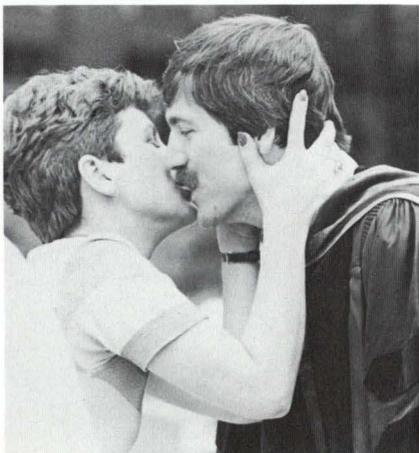
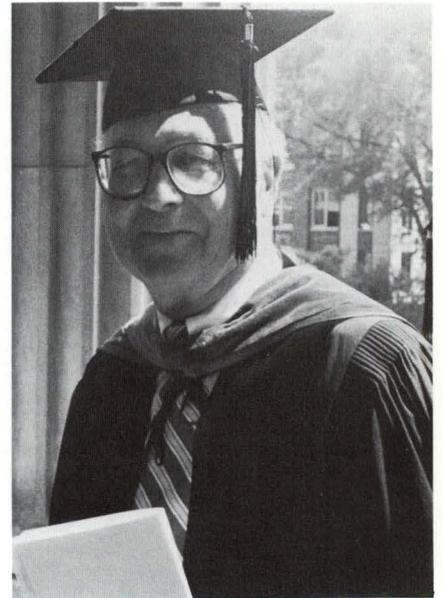
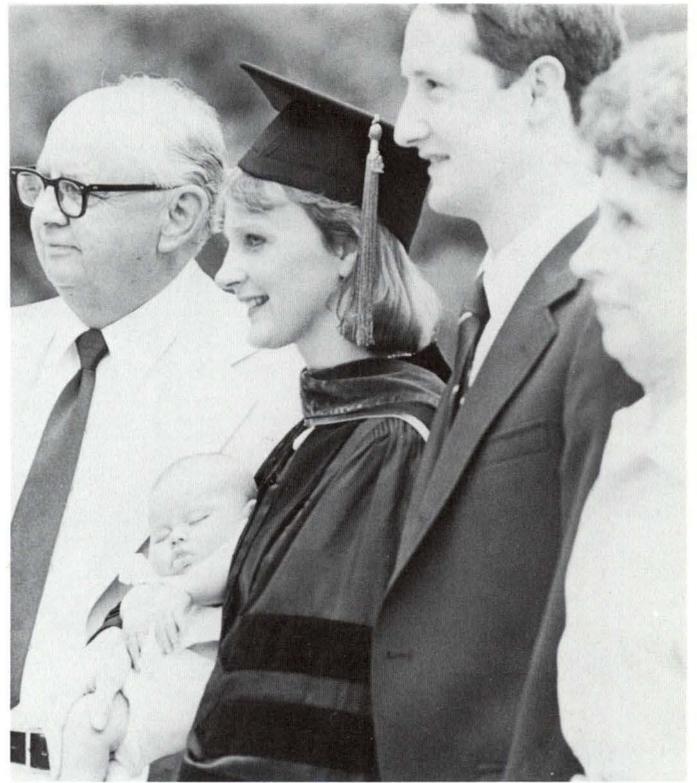
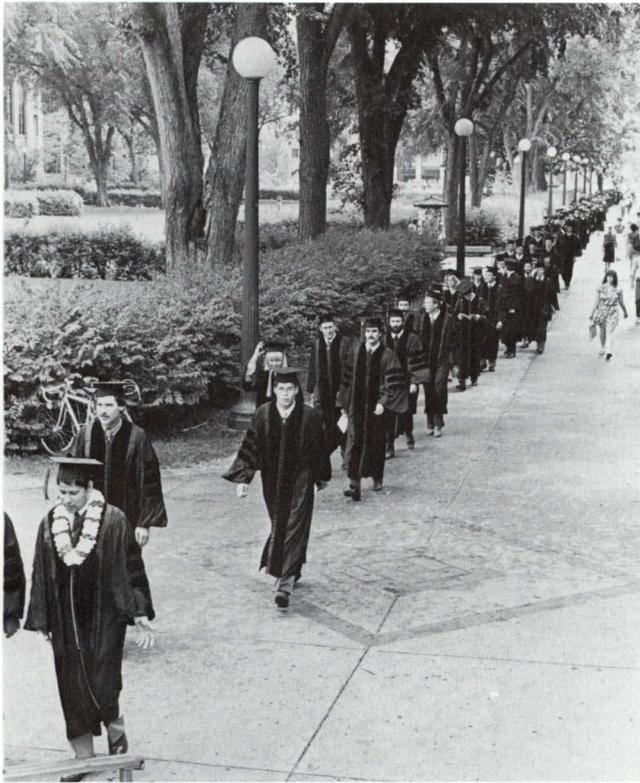
zal Peterson Award. Graduates Bradley J. Brainard, David M. Choquette and Mary C. Kemen were honored as class speakers.

The highlight of the afternoon came, however, as University Presi-

dent C. Peter Magrath conferred the M.D. degree on the graduates. Four years of studying and hard work were finally rewarded. Congratulations and best wishes to the Class of 1984!



Dr. Gerhard K. Brand (right), professor of microbiology, congratulates graduate Richard Owen.



Top Left: The Class of 1984 walked up the mall on their way to Northrop Auditorium for the graduation ceremony. Top Right: The entire family had their picture taken to remember graduation day. Middle Left: Dean Neal Gault introduced the faculty. It was Dean Gault's thirteenth and final graduation appearance as dean. Middle Right: Dr. John C. Coleman, board president of the Minnesota Medical Foundation, marched into Northrop to present student awards from the Minnesota Medical Foundation. At Left: Graduating students received kisses and congratulations from friends and family.

# A Bulletin Feature

## Medical School Class of 1934 returns to U of M to celebrate 50-year anniversary

While the medical school graduates of the Class of 1984 celebrated the end of school and bid each other farewell, members of the Class of 1934 returned to the University of Minnesota campus to get reacquainted and to reminisce of their school days of fifty years ago.

Twenty-six members of the University of Minnesota Medical School Class of 1934 turned out to celebrate their 50-year reunion. They enjoyed three days of activities, good food and conversation.

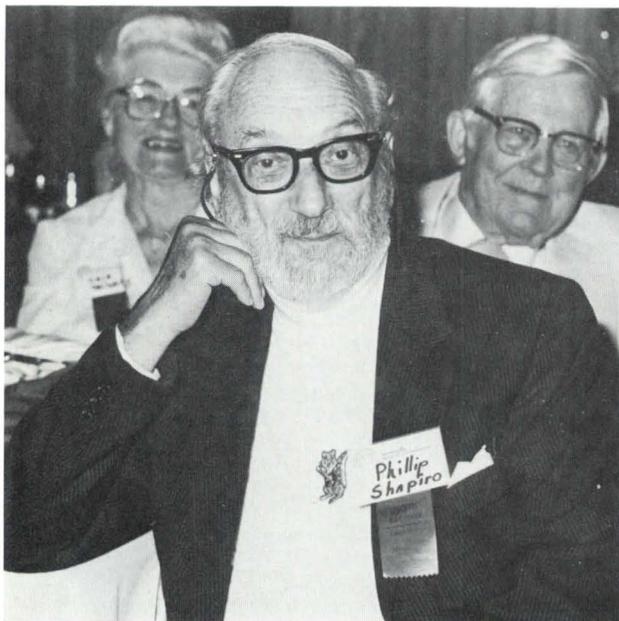
The fun began on Thursday, May 31, as the Class of 1934 alumni joined other medical school alumni on the sternwheeler Jonathan Padelford for a leisurely three-hour cruise on the Mississippi River. The weather was perfect with bright sunshine and a soft breeze. Participants looked sporting in 50th reunion hats, compliments of the Minnesota Medical Foundation, and reunion T-shirts. The boat ride was a pleasant and relaxing way to begin the reunion weekend.

The festivities continued on Thursday evening with an informal dinner and reception at the Decathlon Club

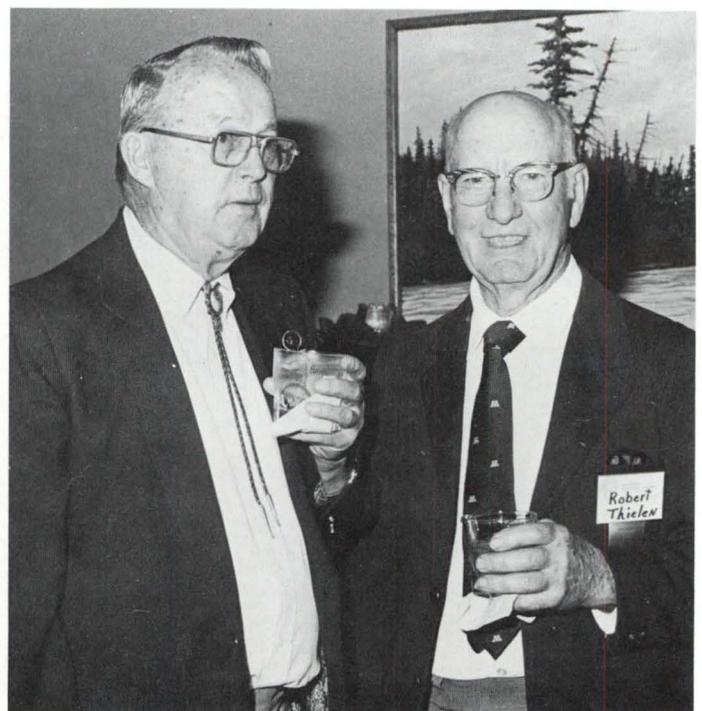
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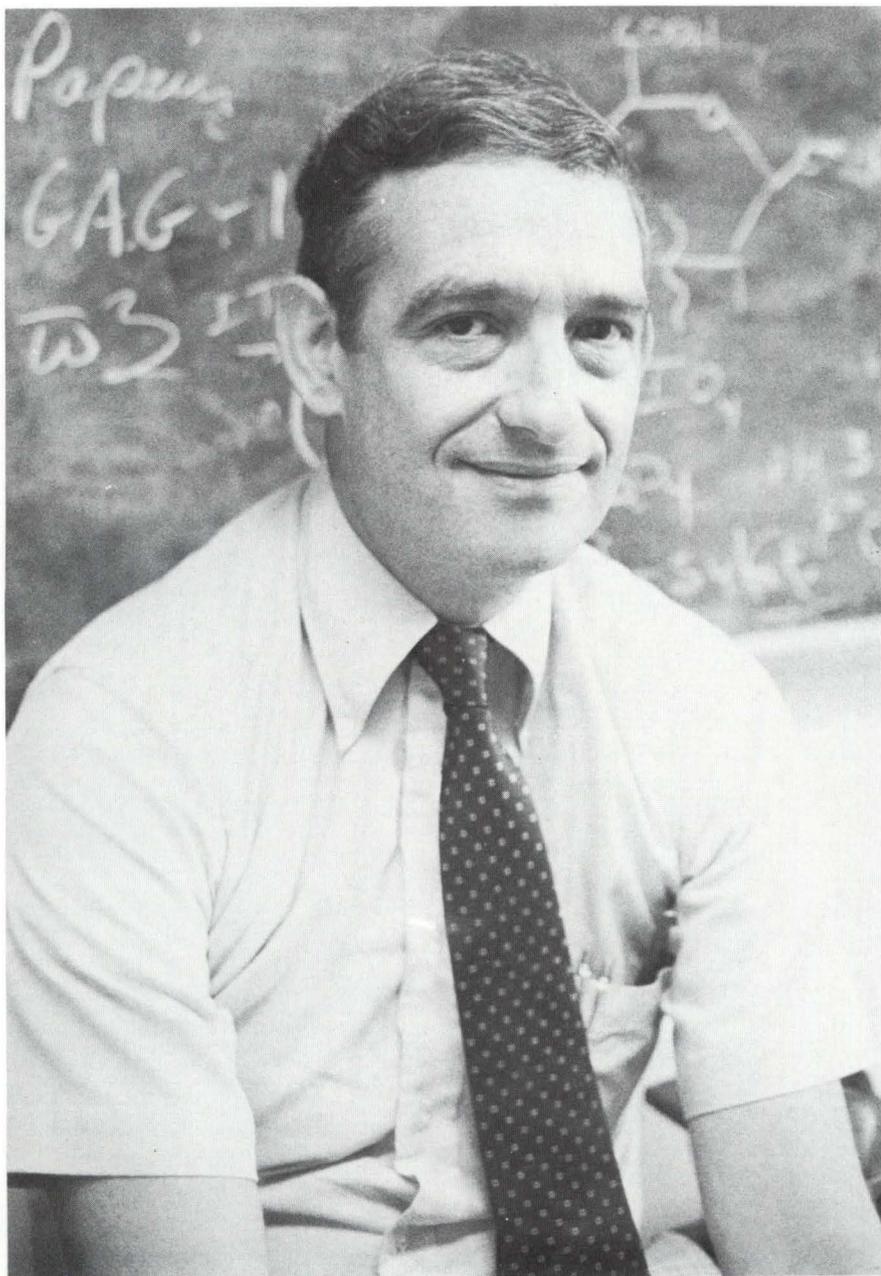
Dr. Wayne Hagen (center) showed his photo album of days past to fellow Class of 1934 alumni Dr. Charles Vandersluis (left) and Dr. George Olds (right).



Dr. Phillip Shapiro listened to the program at the Grand Reunion Banquet at the Amfac Hotel in Minneapolis.



Dr. Paul Johnson and Dr. Robert Thielen were among the 26 members of the Class of 1934 who turned out for the reunion.



## David Brown Appointed Dean of University of Minnesota Medical School

Dr. David M. Brown will wear many hats as he assumes the responsibilities of Dean of the University of Minnesota Medical School on September 15. As dean, Dr. Brown sees himself as a fundraiser, public relations man, administrator, speech maker, teacher, doctor and researcher — not necessarily in that order.

One of his goals will be to “assure the position of this institution in the academic biomedical community.”

To do this, Dr. Brown will strive to enhance the community’s awareness of the contributions the medical school makes on local, regional and national scales; improve the public’s awareness of the mechanism by which the medical school is funded; and involve the community to a greater measure in the “adventure of biomedical research and education.” As a PR man and speaker, Dr. Brown will seize every opportunity to talk

with the media and community groups to explain the missions of the medical school and how he hopes to achieve them.

As chief administrator of the medical school, Dr. Brown will face some challenging problems such as controlling medical costs in teaching hospitals, finding ways to handle rising medical school tuition, and preserving quality faculty and biomedical research projects.

In addition, Dr. Brown does not intend to relinquish his roles as teacher, doctor and researcher. He will maintain his research project investigating the complications of diabetes and he will continue to see patients, work in the programs of the clinical laboratory, and teach endocrinology.

"That's essential," says Dr. Brown, "in order for me to maintain my intellectual drive, as well as a healthy perspective." He admits that he will be a very busy man, as well as "not as low-key as people around here are used to."

Dr. Brown brings to the deanship a deep commitment to the profession of medicine, biomedical research and education. He also brings a knowledge of the university and its medical school gained from his years of experience as a faculty member. Since 1970, Dr. Brown has served as director of clinical laboratories at the University of Minnesota Hospitals and professor of laboratory medicine and pathology and pediatrics at the medical school.

A native of Chicago, Dr. Brown earned his medical degree from the University of Illinois in 1960. He served a rotating internship at the University of Illinois Research and Educational Hospitals and a residency in pediatrics at the University of Minnesota. He completed a fellowship in endocrinology and metabolism at the University of Minnesota in 1965. After serving for two years on the staff of the U.S. Air Force Hospital in San Antonio, Texas, Dr. Brown returned to the University of Minnesota in 1967 as an assistant professor of pediatrics and laboratory medicine and pathology. He is the author of more than 150 scientific articles with his research focusing on diabetes, islet transplantation, vascular disease, oxygen toxicity and kidney development.

In addition to his teaching and research activities, Dr. Brown has served on numerous committees of both the university and the medical school. He has also participated in several national committees including the National Institutes of Health grant review boards, the Osteogenesis Imperfecta Foundation Profes-

sional Advisory Board and the scientific review boards of both the American Diabetes Association and the Juvenile Diabetes Association.

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*"The costs of providing medical care at the University of Minnesota Hospitals are not higher than the costs of receiving medical care within the community at large. That's true particularly if you consider the high intensity of medical care provided for patients."*

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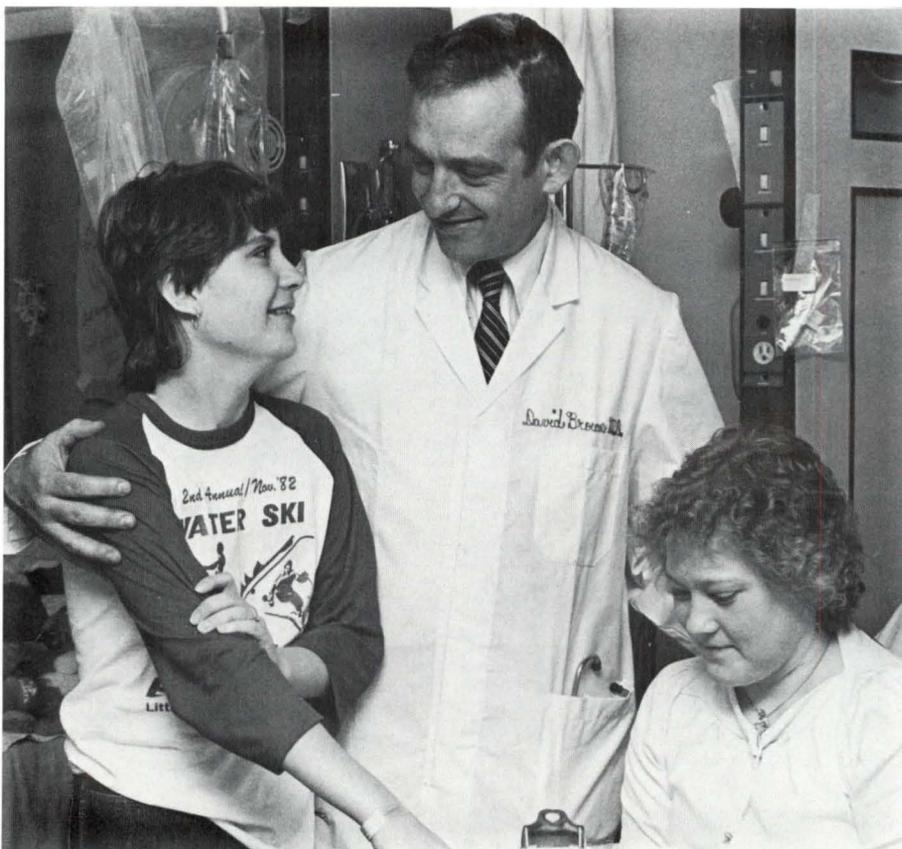
In today's environment of competition for health care dollars, Dr. Brown realizes that one of the challenges he will face as dean of the medical school will be in controlling costs and providing an adequate patient census at teaching hospitals where students learn their trade and faculty conduct their research. One of his goals will be to educate leaders in the business community, who are the providers of health care pack-

ages, and the public, who are the consumers of health care services, about the advantages of teaching hospitals such as the University of Minnesota, and the measures physicians and staff have taken to control costs.

He believes that the competitive climate that exists today is healthy, providing that the long-term impacts on education and research are taken into account. "Patient care services within the unique environment of the teaching hospitals provide a mixture of service, education and research whose benefits cannot be achieved in a community hospital setting," says Dr. Brown.

"The major impact of biomedical research on maintaining health and on preventing and treating diseases," he continues, "is made by utilizing new knowledge and applying it to patient care. This occurs primarily in major teaching hospitals."

As dean, Dr. Brown will work closely with faculty and staff to improve their effectiveness in controlling costs. He will also work at



Dr. Brown, shown here with two of his diabetes patients, intends to continue conducting research and seeing patients after he assumes the deanship.

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heightening the public's awareness of how education affects the totality of health care costs.

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***"The costs for a medical education have risen astronomically. Tuition rose from \$5,200 to \$7,000 a year at the University of Minnesota. Added to that, are the long-term costs for graduate education. The long period of training combined with prospects of reduced remuneration to physicians present a dilemma to aspiring physicians"***

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Medical school costs have risen so dramatically in recent years that it prohibits vast numbers of students from obtaining medical degrees. Dr. Brown is painfully aware of the long-term impact this may have on the medical school.

Not only is the number of applicants to the medical school decreasing, but students currently enrolled are having increasing problems finding financial aid. If the trend continues, the medical school may find it difficult to maintain its existing high quality of students, due to the limited selection. "My major emphasis," says Dr. Brown, "is to help the financially disadvantaged student, but," he admits, "I don't know how, yet."

He also believes the medical school needs to provide a mechanism for funding particularly outstanding students so as to compete with private institutions which do provide financial assistance for such students.

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***"The state legislature needs to recognize that the medical school requires a critical mass of faculty which cannot be tied directly into the number of students being educated. In addition to educating, faculty are conducting research and providing patient care."***

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The University of Minnesota Medical School has already embarked upon a program to reduce the num-

ber of students accepted into medical school each year. In 1984, 230 students will be accepted and by 1987, student enrollment will be restricted to 200. As this occurs, it follows that the number of medical school faculty and staff may also decrease.

As dean, Dr. Brown hopes to find ways to keep the faculty and staff at current levels because he believes, that in order to provide quality education, the medical school requires a certain base of faculty who are experts in the various fields of medicine and who are skilled researchers.

He feels the community and the legislature must come to "accept the fact that the medical school and the university as a whole are underfunded."

As evidence, he points to a survey of 122 medical schools in the United States. The University of Minnesota ranks fourth in total number of students enrolled, yet ranks 74th in its student/faculty ratio. Its ranking falls to 103rd for regular operating expenditures per student and 13th for the amount of sponsored expenditures per full-time faculty. The University of Minnesota Medical School pulls a sixth place ranking for its number of principal investigators, but falls to 46th for its number of basic science faculty.

To Dr. Brown, these statistics point out that, although the medical school at the University of Minnesota ranks in the top, nationally, the support it receives from the state does not. According to Dr. Brown, out of a total budget of \$114 million, the state pays for \$26 million plus \$2 million for "specific and limited projects." On the other hand, the medical school brings into the state \$44 million from competitive funding sources.

Dr. Brown would like the community to become more aware of these facts, and he intends to do everything he can to help make that happen.

There is little doubt that Dr. Brown is taking on vast responsibilities as he assumes his many roles as dean, but he says with a smile, "I am looking forward with eager anticipation to the challenges."

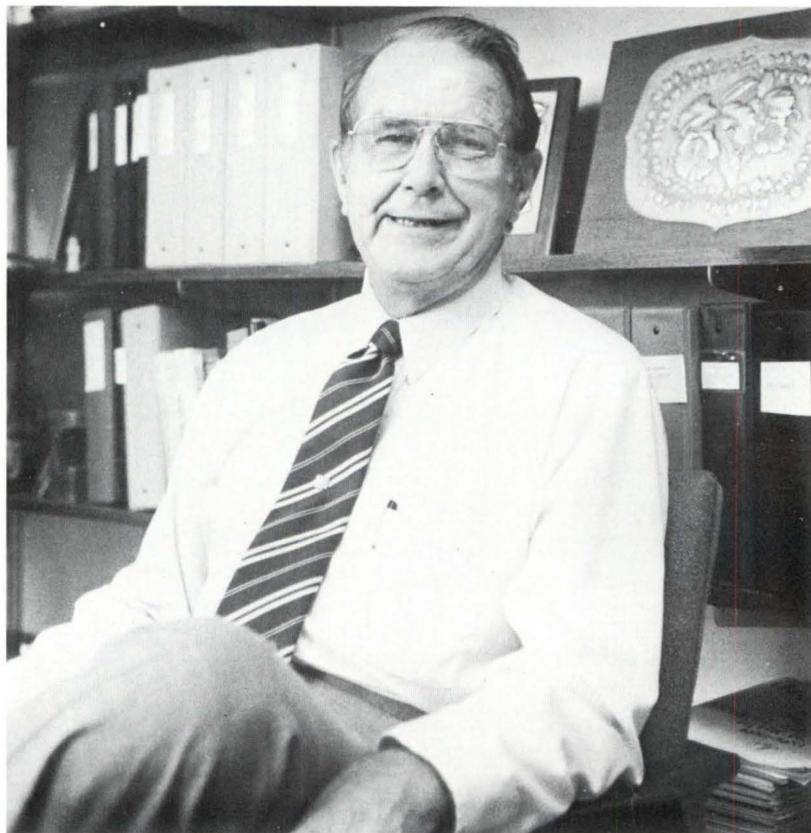
## Age of heart detected continued from page 8

changes was begun by Otto Schmitt, biophysicist at the University of Minnesota, and completed by Hrushesky.

The medical relevance of the Sine-o-graph for seriously ill patients is what first piqued Hrushesky's interest. As a doctor treating cancer patients, he knew that the most common drugs used in chemotherapy are literally heart poisons, as are quite a few other powerful drugs. Some five to 10 percent of certain chemotherapy patients suffer the side effect of a severely damaged heart, a condition that can be fatal. "I wanted to be able to predict which patients would get these heart problems so that I could prevent them — it was driving me crazy," Hrushesky said. Long, frequent and complicated heart rate measurements, assembled with a method Hrushesky developed earlier, could predict the damage in time to prevent it, but the process was too cumbersome to be practical. Other methods of assessing heart damage — heart biopsy, X-ray scan and even electrocardiogram (EKG) — are either dangerous or slow or not entirely accurate, he said. "But once I invented this device, using a true physiological signal, I could finally get a fix on the problem in a few minutes for each patient," Hrushesky said.

First uses of the Sine-o-graph will probably be in research and then in patient treatment, Hrushesky said. Among the research professionals who could use it are cardiologists, endocrinologists, gerontologists, pharmacologists, toxicologists, pharmaceutical inventors and exercise physiologists.

# Neal L. Gault retires after 12 years as Medical School Dean



He has seen a lot of changes in the University of Minnesota Medical School since his first year as dean. He has encouraged its growth from 227 medical students in 1972 to 268 in the graduating class of 1984. He has watched as the Malcolm Moos Towers were built and the Basic Science quadrangle was renovated. He was instrumental in increasing the medical school faculty by 80 percent and then fought for more space for that faculty. He has appointed new department heads for 12 of the medical school's 23 departments. He has also administered a school budget which increased five-fold from the state.

He is, in his own words, proud of the University of Minnesota Medical School. "We've been able to recruit and retain a large number of nationally and internationally respected scientists and physicians," he says, "who often produce research and clinical care recognition for the University of Minnesota. When you look at a group like that, you can't help but have pride and appreciation. It rubs off on the dean."

Now, after 12 years, Dr. Neal L. Gault is retiring as dean of the University of Minnesota Medical School

to return to teaching and patient care. He plans to work in the Department of Internal Medicine with his primary focus on geriatrics.

He has enjoyed his tenure as dean, but believes "the institute deserves new energy and leadership." That leadership will be supplied by Dr. David M. Brown who has been appointed to succeed Dean Gault on September 15 (see article on page 17).

Dr. Gault was appointed dean in 1972. His 12-year term is an impressive one. Only six deans out of 127 medical schools in the United States have held the position longer.

Dr. Gault received his doctor of medicine degree from the University of Minnesota in 1951. He entered medical school in 1946 after serving for three years as an executive officer at a 1,000-bed United States Air Force Hospital in Fresno, California.

He joined the University of Minnesota Medical School faculty in 1953 as an instructor in the Department of Medicine. He became an assistant professor and assistant dean in 1955, an associate professor in 1959 and an associate dean in 1965. In 1967, he was recruited by the Uni-

versity of Hawaii Medical School as an associate dean and professor of medicine. He remained there until 1972 when he returned to Minnesota to become dean.

In addition to his job as chief executive of the medical school, Dr. Gault has been active in international medical education. He has served as a consultant to the Agency for International Development and as an advisor to medical colleges and hospitals in Korea, Lebanon, Japan, Turkey, Indonesia and South America. In recognition of his work in developing medical education in Japan, Dr. Gault received the Supreme Award of the Japan Medical Association in 1969.

As dean of the University of Minnesota Medical School, Dr. Gault says he "appreciated the fact that the only significant impact the dean would have on the medical school was through his selection of department heads." And although he feels the dean's influence is limited, he doesn't think the dean's role is insignificant.

"The dean has the responsibility to set the pace," says Gault, "To provide the ingredients for maintaining

a good creative environment. I believe in this school, the faculty and student body have a thoughtful and appreciative view of the administrative office. It's been accessible, supportive and facilitative. In the last dozen years, we have maintained integrity with the faculty and students. Not all schools could say that."

Through the years, Dr. Gault has worked closely with his executive faculty in developing admission criteria, curriculum and programs for students. "I have been blessed," he says, "with a superb faculty and highly motivated students."

As he leaves the deanship, Dr. Gault sees the greatest challenge facing the medical school in the next decade to be "maintaining an adequate patient population to support both undergraduate and graduate medical education."

In a general reaction to the high costs of health care, Dr. Gault points out the success of prepaid health care systems in which a select group of physicians take care of subscribers. Unfortunately, according to Dr. Gault, prepaid health care systems do not incorporate education, and as a result, teaching hospitals may soon not have enough patients to teach students.

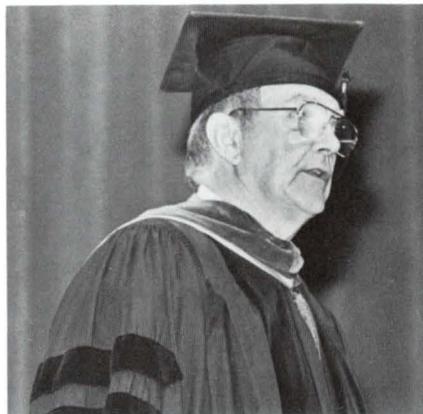
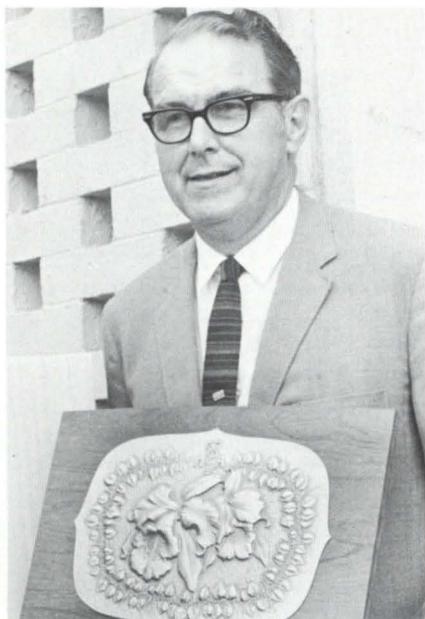
"Citizens who seek care in teaching hospitals," says Dr. Gault, "do so not only because of the unique competence of the physicians at those hospitals, but also because they are involved in teaching future physi-

cians. If these citizens can't participate, there is no way our medical education institution can provide that 'quality' physician."

There has already been a decrease in hospitalized patients in Minnesota which, Dr. Gault feels, is attributable to the effectiveness of prepaid health care systems in keeping patients out of hospitals or reducing the length of hospital stays. In addition to the effect this has on the education of students, Dr. Gault believes it will also affect financial support of the medical school. Currently, faculty contribute an average of 35 percent of the income they receive from patient care to the medical school. "If the numbers of patients referred to academic health centers continues to decrease," Dr. Gault stresses, "this income is going to be reduced. The medical school is going to find it difficult to retain clinical faculty."

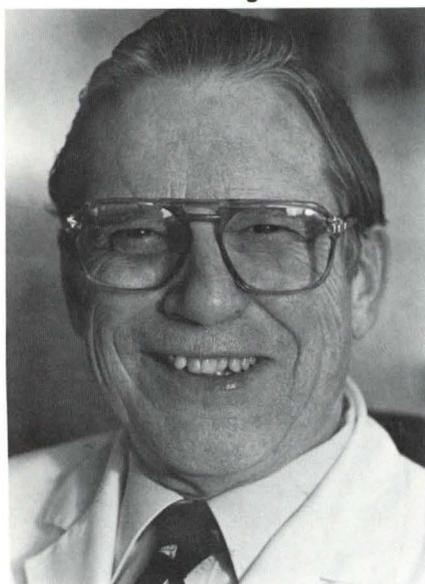
One of the "biggest headaches" Dr. Gault faced as dean was the increasing bureaucracy in the administrative office. As an example, he points to a more complicated faculty search process which involves more time and paperwork than he encountered 12 years ago. He also says there are more grievance procedures for faculty and students to "judicate complaints" which requires "documentation of everything." In addition, there is the constant struggle to resolve space needs for faculty. It was this part of the job that Dr. Gault enjoyed least.

What he enjoyed most was "the interpersonal relationships of working with faculty and students." "It was very gratifying to watch the progress students made and to see the things they accomplished," he says. "I'll miss it. I'll miss it probably more than I think I will."



Above: Dean Neal Gault and his wife Dr. Sarah Gault in 1972. Far left: Dean Gault received the Supreme Award of the Japan Medical Association in 1969 for his work in developing the medical education system there. Left: Dean Gault spoke to the graduating medical school class of 1984 at the June commencement.

## Faculty members retire from U of M



Dr. Dennis W. Watson

### Dennis W. Watson

Dr. Dennis W. Watson, regents' professor of microbiology, retired as head of the Department of Microbiology after 19 years. Dr. Ashley Haase succeeded Dr. Watson as department head on July 1, 1984 (see article on page 2).

Dr. Watson, however, will not disappear from the University of Minnesota Medical School scene. He will maintain a laboratory here to continue his research interests which include host-parasite interactions, streptococcal toxins, gram negative bacterial toxins and immunology.

Born in Morpeth, Ontario, Dr. Watson graduated from the University of Toronto with a degree in chemistry. He received a master's degree in biochemistry from Dalhousie University in 1937 and a Ph.D. in bacteriology from the University of Wisconsin in 1941. Dr. Watson came to the University of Minnesota in 1946 as an assistant professor of bacteriology. Prior to that, he had served in the Chemical Warfare Service for the United States Army and as a visiting investigator at the Rockefeller Institute for Medical Research in New York and Connaught Laboratories for Medical Research in Toronto. He was named an associate professor of bacteriology and im-

munology at Minnesota in 1949, professor in 1952, and department head in 1965. He was also a visiting professor at the University of Washington in Seattle.

Dr. Watson has served on numerous national committees including the American Society for Microbiology, National Institute of Allergy and Infectious Diseases, Committee of the International Union of Biological Sciences, International Society of Toxinology, Society for Experimental Biology and Medicine and the National Infectious Diseases Foundation. He has also served as an editorial consultant for *Medcom Faculty of Medicine* and was named a USPHS Career Award Professor in 1962 and 1965.

The author of nearly 150 scientific papers, Dr. Watson's research experiences have included work at Forschungsinstitut in Freiburg, Germany and the Research Institute of Infectious Diseases in Osaka, Japan.



Verna L. Rausch

### Verna L. Rausch

Verna L. Rausch, professor in the Department of Laboratory Medicine and Pathology and associate director of the Division of Medical Technology, has retired from the University of Minnesota after many years of service in various positions.

Rausch came to the University of

Minnesota in 1946 as a student technologist supervisor for University Hospitals and instructor of medical technology. Prior to that, she had worked as a technologist in pediatric research at the University of Utah in Salt Lake City. She was named coordinator of the Medical Laboratory Assistant Program at Minnesota in 1953, associate professor in the Department of Laboratory Medicine in 1965, associate director of the Division of Medical Technology in 1967, and professor in the Department of Laboratory Medicine and Pathology in 1965. In 1962, she took time away from her responsibilities at the university to be a coordinator and lecturer of chemistry for trainees in the medical technology program for the Peace Corps' Pakistan Project.

Rausch holds membership in numerous associations including the American Association for the Advancement of Science, the American Association of University Professors, American Society for Medical Technology, Minnesota Association of Blood Banks and the Minnesota Society for Prevention of Cruelty.

An alumnus of the University of Minnesota, Rausch received her medical technology degree with distinction in 1945. She attended graduate school here and received her degree in physiological chemistry with a minor in pathology. Her thesis was the "Chromatographic Studies of Urinary Amino Acids in Normal Subjects."

Rausch has authored a number of scientific papers and has been a guest lecturer at universities and symposiums throughout the country.

### Charles W. Carr

Professor emeritus Dr. Charles W. Carr retired from the University of Minnesota's Department of Biochemistry in June.

Dr. Carr received his undergraduate and graduate degrees in chemistry from the University of Minnesota. After serving as a junior chemist in membrane research in the university's Department of Physiology, Dr. Carr went on to complete his Ph.D. in physical chemistry.

Upon receiving his doctorate degree, Dr. Carr joined the faculty of the University of Minnesota as an instructor in 1946. He was named an assistant professor in 1954, associate professor in 1958, and professor in 1966. He served as acting head of the Department of Biochemistry in 1973 and associate head in 1976. He was appointed professor emeritus in 1984. Dr. Carr has a number of professional affiliations with such organizations as the American Chemical Society, American Society of Biological Chemists, Minnesota Medical Foundation, American Society of Cell Biology, New York Academy of Science, American Association of Medical Colleges, American Association of Advancement of Science and the Minnesota Academy of Science.

### Norman O. Holte

Dr. Norman O. Holte retired from the University of Minnesota after an association of more than 50 years. At the time of his retirement, he was a professor in both the dental and medical schools, as well as chief of dental service at Hennepin County Medical Center.

A native of Bismarck, North Dakota, Dr. Holte came to the University of Minnesota in the depths of the depression in 1933. He worked as the night admissions officer at University Hospitals from 1933 to 1941, while taking classes during the day. In 1939, 55 physicians and one student, Norman Holte, volunteered to form a U.S. Army Hospital Reserve Unit under the condition that if they were drafted, the 56-member Minnesota unit would remain together until discharged. The unit was drafted in December of 1941. It remained together until discharged in January 1946, after serving in England, Africa and Italy.

After his discharge from the service, Dr. Holte returned to the University of Minnesota to complete his dentistry degree. He received his DDS in 1947 and a master's degree in oral surgery and pharmacology in 1955. He also completed a residency in anesthesiology. In 1955, Dr. Holte joined the faculty of both the dental and medical schools as a clinical assistant professor of oral surgery and

pharmacology. In 1960, he was appointed a full professor in the Department of Oral and Maxillo-facial surgery (dental school) and the Department of Pharmacology (medical school).

In addition to his responsibilities at the University of Minnesota, Dr. Holte has been a consultant and visiting professor at the University of Saigon, a lecturer at the National Defense Medical Center in Taipei, Taiwan and a visitor at the Department of Pharmacology in the Yon Sei Medical School in Seoul, Korea.

Dr. Holte has been a member of numerous professional committees, as well as university committees. He has also received a host of awards including the Students Award as Outstanding Teacher, Century Club Outstanding Teacher Award, American Cancer Society Award, Minnesota State Pharmaceutical Association Award, University of Minnesota Public Service Award and the University of Minnesota Police Department's Good Samaritan Award.



Ruth F. Hovde

### Ruth F. Hovde

Ruth F. Hovde retired from the University of Minnesota after 20 years as director of the Division of Medical Technology and professor in the Department of Laboratory Medicine.

A native of Devils Lake, North Dakota, Hovde received her undergraduate and graduate degrees in

medical technology from the University of Minnesota. Her career has included positions as a technologist at Heally-Law-Woutat-Moore Clinic in Grand Forks, Abbott Hospital in Minneapolis, Tacoma General Hospital in Tacoma and Hay Laboratory in Seattle.

Hovde joined the staff of the University of Minnesota in 1945 as an administrative laboratory technologist and instructor in the Department of Laboratory Medicine. She was named an assistant professor of laboratory medicine in 1953, an associate professor in 1958 and professor and director of the Division of Medical Technology in 1964.

Hovde has had several manuscripts published which deal primarily with education and medical technology.



Dr. R. Dorothy Sundberg

### R. Dorothy Sundberg

Dr. R. Dorothy Sundberg will retire from the University of Minnesota in October 1984 after more than 40 years as a faculty member. Currently, she is a professor of anatomy and laboratory medicine and co-director of the hematology laboratories for the University of Minnesota Hospitals. Born in Chicago, Dr. Sundberg attended the University of Chicago, Wayne State University and the University of Minnesota, where she received a bachelors degree in 1937, a masters degree in 1939, a Ph.D. in 1943, and a medical degree in 1953.

She began her long association with the University of Minnesota in 1937 when she served as a technician and teaching assistant for Dr. Hal Downey in the Department of Anatomy. A short break from Minnesota came in 1939, when she accepted a position as special instructor of pathology at Wayne University. She returned to Minnesota to stay in 1941 as a teaching assistant in anatomy.

During World War II, when many faculty members were called to service, Dr. Sundberg took over teaching responsibilities in the laboratories of gross anatomy, histology and hematology. She also assumed responsibilities for hematologic diagnosis at University Hospitals. She was named an assistant professor in 1953. Her appointment as professor of anatomy came in 1960, followed by appointments as professor of laboratory medicine in 1963, professor of pathology in 1973 and co-director of the hematology laboratories in 1974.

Dr. Sundberg received the Lucretia Wilder Award for research in anatomy in 1943. Her research interests lie in diagnostic and experimental hematology.

In addition to her undergraduate teaching responsibilities, Sundberg has been extremely active in the graduate school, serving on a number of graduate school committees. She once remarked, "I have read more theses than books or journals."

The author of numerous scientific papers, Dr. Sundberg has also served on the editorial boards for the journal *Blood* and for the Society for Experimental Biology and Medicine.

### Joseph A. Resch

Dr. Joseph A. Resch, an assistant vice president for health sciences and a former head of the Department of Neurology, retired from the University of Minnesota in June.

Dr. Resch began his career at the University of Minnesota in 1948 as a clinical instructor of neurology. Prior to that, he had had a general practice in Holmen, Wisconsin.

A graduate of the State Teachers College in Milwaukee, Dr. Resch received his medical degree from the University of Wisconsin in 1938. He served as house physician, surgeon

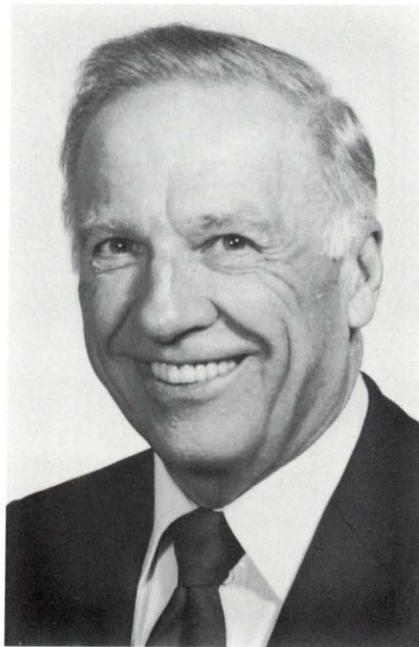
and obstetrician at St. Francis Hospital in LaCrosse and then completed a medical fellow in neurology at the University of Minnesota.

As a faculty member at the university, Dr. Resch served as a clinical assistant professor of neurology, a clinical associate professor and an associate professor. He was named a full professor of neurology in 1965.

In addition to his teaching responsibilities, Dr. Resch assumed a variety of administrative duties as well. He replaced Dr. A.B. Baker as the head of the Department of Neurology, serving as interim head from 1976 to 1977 and then as head from 1977 to 1982. He was named vice president for health sciences in 1970.

The author of numerous scientific papers, Dr. Resch's research interests have been in aviation physiology, aero medical research and cerebral vascular disease.

Dr. Resch is a member of the Hennepin County, Minnesota and American Medical societies, the Minnesota Society of Neurological Sciences, Central Association of Electroencephalographers, American Academy of Neurology, American Association of Neuropathologists, American EEG Society, American Heart Association, and the American Epilepsy Society, among others.



Dr. Joseph A. Resch

### Class of 1934 celebrates reunion continued from page 16



Dr. Willis Redding and his wife Helen enjoyed the cruise on the *Jonathan Paddelford*, part of the Class of 1934 reunion activities.

in Bloomington. Everyone enjoyed the opportunity to reminisce over a good meal.

Friday's activities began at noon with the Minnesota Medical Foundation Luncheon at the Campus Club. Immediately following, the 50-year alumni were honored guests and marched down the aisle of Northrop Auditorium as part of the graduation ceremony of the medical school Class of 1984. The Grand Reunion Banquet at the Amfac Hotel in Minneapolis topped off the day's activities. The dinner program included comments from Dean Neal L. Gault, a nostalgic look at the 30s slide show put together by Dr. Reuben Berman, Class of 1932, and a surprise visit by University President C. Peter Magrath.

The reunion weekend concluded on Saturday with the New Horizons in Medicine continuing medical education seminar.

Judging from the comments as reunion participants bid one another farewell, the 50th reunion celebration was all the Planning Committee had promised.

## Class Notes

'35 Dr. Harold G. Scheie, founder of the Scheie Eye Institute, received the Lucian Howe Medal from the American Ophthalmological Society at its 120th Annual Meeting in San Juan, Puerto Rico. The Lucian Howe Medal is the society's highest honor and is presented to a distinguished leader in the field of ophthalmology. The medal has been awarded since 1922.



Dr. Harold G. Scheie, recipient of the Lucian Howe medal.

'39 Dr. Marjorie E. Hartig retired recently from her practice in Kalispell, Montana. Dr. Merlyn C. Lindert is actively practicing internal medicine and gastroenterology at the Clinic of Internal Medicine in Milwaukee, Wisconsin. He is a clinical professor emeritus at the Medical College of Wisconsin.

'42 Dr. Roger Hallin retired from the University of Minnesota in May. He had been on staff at Boynton Student Health Service, specializing in physical medicine. Before coming to the University of Minnesota, Hallin was in private family practice in Worthington, Minnesota. Shortly before retirement, Dr. Hallin was selected by the Minnesota Alumni Society as University ("U") Person of the Week.

The Constance Bultman Wilson Center for Adolescent Psychiatry in Faribault, Minnesota has been rededicated and dedicated a building in honor of Dr. Clarence J. Rowe, supervising psychiatrist of the Wilson Center. The Clarence J. Rowe Building has 45-licensed hospital beds and was dedicated to Dr. Rowe in August of 1984.

'43 Dr. Forrest H. Adams recently joined the staff of Scripps Clinic and Research Foundation in LaJolla, California, and will be responsible for organizing a clinical heart, lung and vascular center. Dr. Adams was also appointed the medical director of research at Children's Hospital Research Center in San Diego.

Dr. Frank E. Johnson was named the 1984 recipient of the Charles Bolles Bolles-Rogers award, an honor which has been bestowed on selected physicians since 1952. The award is given to the person who through medical research, medical achievement or leadership is selected by his fellow physicians as an outstanding member of the medical profession. The selection is made each year by the chiefs of medical staffs in Hennepin and Anoka counties, and approved by the board of directors of Metropolitan Medical Center. Dr. Johnson was judged to be a leader in his specialty of thoracic and cardiovascular surgery, as well as a leader in the medical community for his active participation in numerous professional societies. Dr. Johnson is an associate professor of surgery at the University of Minnesota Medical School.

'45 Dr. James C. Breneman received the American College of Allergists highest award recently. The Fellow Distinguished Award is presented annually by the ACA to the physician or physicians who have exhibited outstanding dedication and leadership in the field of allergy. Dr. Breneman has distinguished himself in the area of food allergy. Practicing in Galesburg, Michigan, Dr. Breneman currently serves as president of the Midwest Immunology Society.

Dr. Elizabeth Craig was elected president-elect of the Minnesota Medical Association at its annual meeting in May. She is the first woman ever elected to that position. Dr. Craig also received an award as the Outstanding Woman Physician in Minnesota from the Alpha Epsilon Iota Foundation of the Minnesota Women Physicians Organization.

Dr. Einer W. Johnson, Jr. has retired after a 33-year career at the Mayo Clinic in Rochester. He was a consultant in the Department of Orthopedics.

Dr. B. J. Kennedy, professor of medicine and director of the section of medical oncology at the University of Minnesota, has been elected chairman of the board of directors of the Presbyterian Homes of Minnesota, Inc. The subsidiary corporations of the Presbyterian Homes include Johanna Shores, Langton Lake Place, Gideon Pond, and the Presbyterian Homes Foundation. These facilities provide retirement and health care for the elderly.

'46 Dr. William Mahoney has accepted the position of full-time medical director for Human Dimensions in Medical Education, a non-profit educational corporation. Dr. Mahoney is former dean of medicine at Tufts University.

Dr. R.G. Norby moved recently to Venice, Florida. He is working full-time as an internist/cardiologist. He reports that the weather in Florida is delightful and he loves living on the gulf.

'54 Dr. Shelley N. Chou was selected by the American Association of Neurological Surgeons as its new vice-president. Dr. Chou is professor and head of the Department of Neurosurgery at the University of Minnesota.

'55 Dr. John Spittell, Jr. has been elected to a three-year term on the board of regents of the American College of Physicians. He recently concluded his term as chairman of the board of governors of that organization. Dr. Spittell is with the Mayo Clinic in Rochester, specializing in cardiovascular diseases.

'56 Dr. John A. Gronvall was named acting chief medical director for the Veterans Administration until a replacement is found for Donald L. Curtis who resigned recently. Dr. Gronvall is a former dean of the University of Michigan Medical School.

'63 Dr. Robert Avant recently received the Teacher of the Year award from the Minnesota Academy of Family Physicians. Dr. Avant is currently chairman of the division of family medicine at the Mayo Clinic in Rochester.

Dr. Murray Silverstein was recently honored as the David B. Kaner memorial lecturer at Dartmouth Medical College. Dr. Silverstein is in the hematology department at the Mayo Clinic in Rochester.

'66 Dr. Stephan Hanson is keeping busy as an assistant professor for the University of Minnesota Medical School in the Department of Family Practice and Community Health, chief of the Department of Family Practice at Fairview Southdale Hospital, and commander of the Naval Reserve Medical Corps, NAS Corpus Christi.

'67 Dr. Carleton C. Evans is serving as director of allocation development at the Veterans Administration in Washington, D.C. He is a chief architect of models to measure clinical work loads at VA hospitals.

'69 Dr. Robert Knopp is serving as chief of emergency medicine at Valley Medical Center, the second busiest emergency room in the state of California. It averages 65,000 to 70,000 patients a year. Dr. Knopp supervises eight ER staff physicians and 16 residents. Valley Medical Center's emergency medicine teaching program is regarded as one of the top residency programs in the country.

'70 Dr. Michael Osborn, an internist at the Mayo Clinic in Rochester, has been elected president of the American Heart Association, Minnesota Affiliate for 1984-85.

Dr. Victor L. Yu received the Distinguished Research Award from the Health Research and Services Foundation for his work in Legionnaires' disease, which was first discovered in 1976 following an outbreak of undiagnosed pneumonias at the American Legion Convention in Philadelphia. Dr. Yu was the chief of the microbiology and epidemiology research team that discovered the reservoir for the disease bacterium was the water distribution system. His team also devised a short-term method for eradicating the organism, which is currently being used throughout the world. Dr. Yu also received a research award from the American Legion and a commemorative citation from the Veterans of Foreign Wars for his work in this area. Currently, Dr. Yu is an associate professor of medicine at the University of Pittsburgh and chief of the Infectious Disease Section of the VA Medical Center.



Dr. Victor L. Yu (right) received the Distinguished Research Award from the Health Research and Services Foundation for his work in Legionnaires' disease.

'72 Dr. Lloyd Bartholomew received the honorary Doctorate of Humane Letters award from Green Mountain College in Poultney, Vermont. Dr. Bartholomew practices gastroenterology at the Mayo Clinic in Rochester.

'74 Dr. Tim Rumsey, a family physician practicing in St. Paul, has had his first book accepted for publication in January of 1985. His novel, tentatively entitled "Pictures from a Trip," has nothing to do with medicine. It is a semi-autobiographical story of two brothers and a blind friend who take a trip to South Dakota in search of dinosaur bones. Near the end of the novel, the young brother is killed in a car accident, as was Dr. Rumsey's own brother in 1979. It took Dr. Rumsey four years to write his book, during which time he dropped his patient work-load to half-time. Despite his success as a novelist (he has already received an advance for his second novel which he is now writing), Dr. Rumsey continues to pursue his medical career. "I'm a better writer because of the practice of medicine," he said. He believes his practice has broadened his understanding of people and character, which has enhanced his ability as a writer.

'75 Dr. Macaran A. Baird has left his home state of Minnesota and a five-year private practice in Wabasha to accept a position as assistant professor in the Department of Family Medicine at the University of Oklahoma in Oklahoma City. He will also be the director of the Family Medicine Residency Program. Dr. Baird is the co-author of *Family Therapy and Family Medicine*, a widely used text book in family medicine residencies.

Dr. Stephen G. ReMine has left his practice with the Oklahoma City Clinic to assume a surgical position with the Lahey Clinic. He is looking forward to all the new challenges.

'77 Dr. Harlan A. Stueven has completed his residency in emergency medicine at the Milwaukee Medical Complex and has accepted a faculty position as assistant professor of surgery. He is also the medical director of emergency medicine at the Mount Sinai Medical Center.

'78 Dr. Mark J. Callahan has accepted a position as consultant in the division of cardiovascular diseases and internal medicine at the Mayo Clinic in Rochester. He just completed his subspecialty training in cardiovascular diseases at Mayo in June.

Dr. Gregory J. Jurkovich completed his general surgical residency in July at the University of Colorado in Denver. After a one month vacation in Minnesota, he began his new position as assistant professor of surgery at the University of South Alabama in Mobile.

Dr. David G. Lewallen has been appointed senior associate consultant in the Mayo Clinic's Department of Orthopedics, section of adult reconstructive orthopedics. He served a residency in orthopedics at Mayo Graduate School from 1978-83. Since then, he has been a special fellow in biomechanics at Beth Israel Hospital in Boston.

'79 Dr. Donald Eckhoff has entered private practice in association with J. Phillip Nelson in Denver, Colorado. They will specialize in general orthopedics and total joint replacement.

Dr. Stephen B. Sundberg has completed graduate training in orthopedic surgery at the Mayo Graduate School of Medicine and will enter private practice in Minneapolis.

'81 Dr. Jeffrey K. Larkin completed his residency program in June. He is in family practice in Mason City, Iowa.

'82 Dr. Paul F. Erickson was among 20 recipients of a \$1,500 award from the American Academy of Family Physicians (AAFP) to help finance his graduate training in family practice. Dr. Erickson was selected from a field of 142 candidates on the basis of scholastic achievement, leadership qualities and qualifications for and interest in family practice. He is currently a family practice resident in the Duluth Family Practice Residency Program.

Dr. Matthew Norman, a resident in ophthalmology at the Mayo Clinic in Rochester, received the College of St. Thomas' Outstanding Achievement Award for 1984. The award was presented for his work in establishing the Volunteer Program at St. Paul-Ramsey Medical Center. The volunteer program offers pre-medical students at the college first-hand experience in dealing with hospital staff and patients.

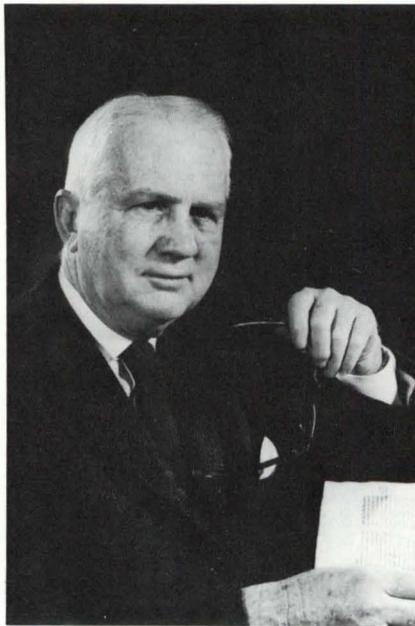
# In Memoriam

**Dr. Wallace D. Armstrong**, Class of 1937, died on June 7, 1984 at age 79. He was an emeritus regent's professor of biochemistry at the University of Minnesota Medical School and was internationally known as an authority in the field of calcium metabolism, the biochemistry of bones and teeth, and the use of fluoridation as a public health measure in combating dental problems. He was frequently called upon to serve as an expert consultant in legal battles concerning the fluoridation of public water supplies in the United States and abroad.

Dr. Armstrong began his long and distinguished career at the University of Minnesota in 1929 as a graduate assistant. He received his Ph.D. degree from Minnesota in 1932. He had completed his undergraduate work at the University of Texas and received a masters of science degree from New York University in 1928. While holding a faculty position at the University of Minnesota, he pursued the study of medicine and received his M.D. degree in 1937. He was then appointed an assistant professor in the Division of Physiological Chemistry. He was appointed professor in 1943 and became the first head of the newly designated Department of Physiological Chemistry in 1946. He served in that capacity until 1974. The departmental name was changed to Biochemistry in 1963. Dr. Armstrong was named a regents professor of the university in 1973. For two years following his retirement from Minnesota, Dr. Armstrong served as the acting scientific director for intramural programs of the National Institute of Dental Research, National Institutes of Health in Bethesda, Maryland.

Dr. Armstrong was the recipient of many honors and awards and served on numerous professional societies. He is survived by his wife Mary Garland Armstrong, daughter Margaret Ann Bancroft, son John Wallace, and three grandchildren.

**Dr. Louis A. Benesh**, Class of 1937, died in July at the age of 73. He had a family practice in northeast Minneapolis for 41 years and was on



**Dr. Wallace D. Armstrong**

staff at Deaconess Hospital. He retired from active practice in 1977 and moved to Elk River, Minnesota. Dr. Benesh is survived by his wife Marcella and son George.

**Dr. Scott D. Burns**, Class of 1978, died of hypothermia, following an accident while he was bow-hunting alone in the Colorado Rocky Mountains. He was 34. Dr. Burns had been a family practitioner and an emergency-room physician in Alexandria, Minnesota. He had a previous practice in Pequot Lakes. He is survived by his wife Joelle, seven-year-old son Nathan, and five-year-old daughter Michelle.

**Dr. Eldon B. Berglund**, Class of 1946, died in February of 1984 at age 68. He was an emeritus professor of family practice and community health and pediatrics at the University of Minnesota. He served as chief of family practice at Hennepin County Medical Center from 1969 until his retirement in 1980. Dr. Berglund is survived by his wife Alice, seven children and 13 grandchildren.

**Dr. John C. Grant**, Class of 1943, died in September at age 70. He was a family practice physician, living in Sauk Centre, Minnesota. He is survived by three daughters and two grandchildren.

**Dr. Miriam A. Harper**, Class of 1984, died of cancer on August 7, just months after receiving her medical degree from the University of Minnesota. She was 35. Dr. Harper fought her battle against cancer during her last year in medical school. She received her diploma in a hospital bed. Dr. Harper is survived by her husband James, sons Charles and Edward, and daughter Elizabeth.

**Dr. Malcolm G. Gillespie**, Class of 1922, died in July at age 89. He had practiced in Duluth, Minnesota for more than 46 years. He retired in 1976 as a surgeon on staff at the Duluth Clinic. He was living in Stillwater at the time of his death. Dr. Gillespie is survived by his wife Hazel, son Dr. Malcolm E. Gillespie, and three grandchildren.

**Dr. Frank J. Heck**, Class of 1926, died July 7 in Wolfboro, New Hampshire. He was 87. After receiving his undergraduate degree in chemistry from the University of Minnesota in 1919, Dr. Heck joined the Mayo Clinic staff as an assistant in physiological chemistry. In 1921, he returned to the university campus for graduate training and went on to receive his medical degree. He returned to the Mayo Clinic in 1926 as a fellow in medicine and joined the staff in 1929 as a medicine consultant. During his career at Mayo, he was head of a section of medicine, and chairman of two sections of medicine. He was appointed a professor of medicine in 1950. Dr. Heck retired in 1962 and moved to New Hampshire.

**Dr. Joseph E. Murphy**, Class of 1940, died on August 24 at age 70. He had had a family practice in Marshall, Minnesota. He is survived by his wife Pat, sons Brian and Michael, daughter Patricia Bell, and 12 grandchildren.

# Calendar

**Dr. Harold Neuenschwander**, Class of 1950, died in August, the victim of an automobile accident in Knoxville, Tennessee. He was 68. Dr. Neuenschwander and his granddaughter Lisa were both struck and killed by a truck, as they left the auditorium after a Jackson Brothers Victory Tour concert. Dr. Neuenschwander went to Knoxville shortly after receiving his medical degree to set up private practice. He was an internal medicine specialist and allergist at University Hospital. He was a member of the Knoxville Academy of Medicine, the Allergy Society of the American College of Physicians and Surgeons, and the Tennessee Medical Association. He was also extremely active in the community and was instrumental in founding the Knoxville Sertoma Learning Center. Dr. Neuenschwander is survived by his wife Virginia, sons J. Allen, Roy, Mark, John and Neal, daughters Nancy White and Patty Powers, and six grandchildren.

**Dr. Harry Plotke**, Class of 1937, a long-time St. Paul ophthalmologist, died after an automobile accident on April 10. He was 70. Dr. Plotke interned at Ancker Hospital in Minneapolis and did post-graduate work at the University of Minnesota in ophthalmology. He practiced in Little Falls, Minnesota for two years before setting up practice in St. Paul. During World War II, he served as a medical officer in Europe, reaching the rank of major. Dr. Plotke is survived by his wife Lea, son Gary, and daughter Susan Oliner.

**Dr. Melvin B. Sinykin**, Class of 1934, died in July in Minneapolis. He had retired from a practice in obstetrics and gynecology in 1980. During his career, he served as president of the Minnesota Society of Obstetricians and Gynecologists in 1967 and district chairman of the Society in 1968. Outside of medicine, Dr. Sinykin enjoyed working in his lapidary shop. Dr. Sinykin is survived by his wife and three children.

Oct. 24, 26	Obstetrics and Gynecology Annual seminar, Amfac Hotel, Minneapolis, U of M CME (612) 373-8012.
Oct. 25-27	Emergency Medicine for Primary Care Physicians, St. Paul Hotel, St. Paul Ramsey-Medical Center CME (612) 221-3992.
Oct. 31	Infectious Disease in the Elderly, Hennepin County Medical Center, U of M CME (612) 373-8012.
Nov. 2, 3	Primary Care of the Child with a Developmental Disorder, Radisson Plaza Hotel, St. Paul, St. Paul-Ramsey Medical Center, CME (612) 291-2848.
Nov. 2	Stroke Care Update—1984, Sheraton Midway Hotel, St. Paul, St. Paul-Ramsey Medical Center CME (612) 221-3992.
Nov. 2	Neurology Update, Sheraton Midway Hotel, St. Paul, St. Paul-Ramsey Medical Center CME (612) 221-3992.
Nov. 7	Pediatric Neurology and Neurosurgery, Mayo Memorial Auditorium, U of M, CME (612) 373-8012.
Nov. 7	Recent Advances in Antibiotic Therapy, Amfac Hotel, Minneapolis, St. Joseph's Hospital (612) 291-3062.
Nov. 15-17	Clinical Strategies in Primary Care Medicine, Holiday Inn, Minneapolis, St. Paul-Ramsey Medical Center CME (612) 221-3992.
Nov. 30-Dec. 1	Family Violence in the Deaf Community, Sheraton at Fisherman's Wharf, San Francisco, The National Academy of Gallaudet College, (202) 651-5480.
Dec. 5-8	Coronary Heart Disease: A Comprehensive Approach to Principles and Practice, Radisson Plaza Hotel, St. Paul, St. Paul-Ramsey Medical Center CME (612) 221-3992.

**Dr. Marvin J. Stewart**, Class of 1939, died at his home in Scottsdale, Arizona. He was 68. A native of Duluth, Minnesota, Dr. Stewart completed his medical education at Minnesota and went on to intern at Miller Hospital in St. Paul. During World War II, he served in the U.S. Army Medical Corps in the Pacific. He returned to Minneapolis in 1948 to complete a residency in anesthesiology at University Hospitals. The majority of his career was spent as an anesthesiologist at St. Barnabus Hospital (now Metropolitan Medical Center). He retired to Arizona in 1978. Dr. Stewart is survived by his wife Sylvia, son William, daughter Melanie Cutler, and four grandchildren.

**Dr. John P. Williams**, Class of 1956, died in July in California. He was 53. Formerly of Minneapolis, Dr. Williams had spent 21 years as a physician at Mare Island and Hunters Point Naval Base. He was active in civic affairs and bridge clubs.

**Dr. Robert E. Wilson**, Class of 1954, died in March at age 54. He had had a family practice in Minneapolis. He is survived by his wife Eileen and six children.

**Dr. Nelson A. Youngs**, Class of 1930, died in May in Grand Forks, North Dakota. He was 80. Dr. Youngs practiced his specialty, otolaryngology, at the Grand Forks Clinic for over 50 years. He served as mayor of Grand Forks from 1960 to 1964. For his service to the city, Dr. Youngs was selected for the Physician Community Service Award in 1978 from the North Dakota Medical Association. A native of New York, Dr. Youngs came to Minnesota for his medical training. He was the first resident in ear, nose, and throat at the medical school. Dr. Youngs is survived by his wife Patricia, two sons, a daughter, three stepsons and 18 grandchildren.

The Minnesota Medical Foundation was also notified of the recent deaths of the following alumni:

- Dr. O.J. Campbell**, Class of 1933.
- Dr. R.O. Pearman**, Class of 1939.
- Dr. Eugene White**, Class of 1951.



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The Medical School Class of 1934 returned to the University of Minnesota campus for their 50-year reunion. Seated left to right: Olaf Heiberg, Harold Stemsrud, Phillip Shapiro, Robert Thielen, Martin Ericsson, Paul Johnson, Wayne Hagen, Frederick Army, and Mancel Mitchell. Standing left to right: W. R. Schmidt, Willis Redding, Thomas Doyle, Curt Lundquist, Charles Vandersluis, John Lohmann, Russell Baker, Miles Gullickson, Karl Sandt, and George Olds.