

University of Minnesota

Medical Bulletin

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**Aging:
It's Not a Game**

Fall 1994

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ON THE COVER:

Drs. Jim Pacala and Chad Boulton, geriatricians in the Department of Family Practice & Community Health, direct the Aging Game for medical students. Photo by Tim Rummelhoff.

The Minnesota Medical Foundation was founded in 1939 by a dedicated group of faculty members and medical alumni who saw the need for private support to build a strong future for the Medical School. A non-profit organization, MMF raises and disburses funds for medical education and research at the University of Minnesota Medical Schools in the Twin Cities and Duluth.

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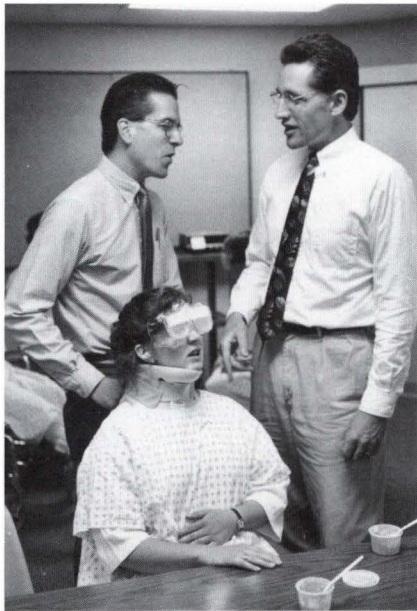
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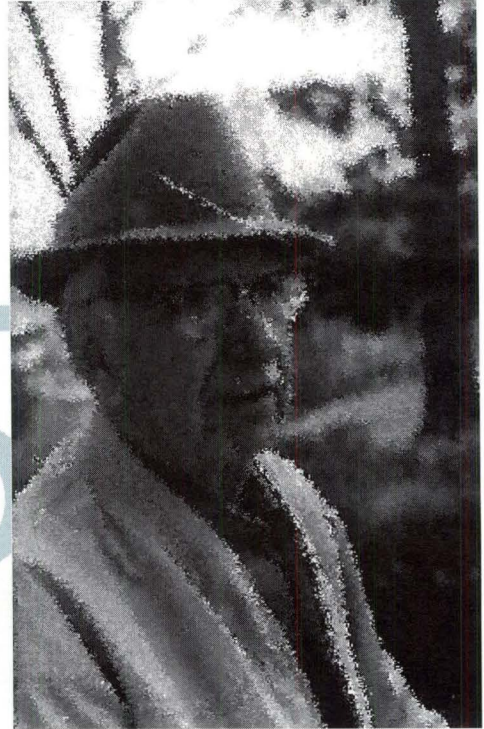
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Aging:



It's Not a Game

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Geriatricians in the University's Department of Family Practice & Community Health are preparing for the next century with innovative programs in research, education, and patient care.

by Jean Murray

Photos by Tim Rummelhoff

By the year 2010, millions of baby boomers born after World War II will be retiring. By 2030, seniors age 65 and older will account for nearly 22 percent of the American population.

According to a U.S. Census Bureau report, there are currently 32.3 million Americans older than 65, with that number expected to double to about 70.2 million over the next 40 years. The population of people 85 and older will almost triple in that time period to nearly 9 million.

Within this enormous population group will be millions of dependent elderly, a fact that is not being ignored by the University of Minnesota's Department of Family Practice and Community Health (DFPCH). Research projects that address this significant population shift are underway. Acquiring new treatment skills and improving care of today's elderly and their families will directly affect future populations.

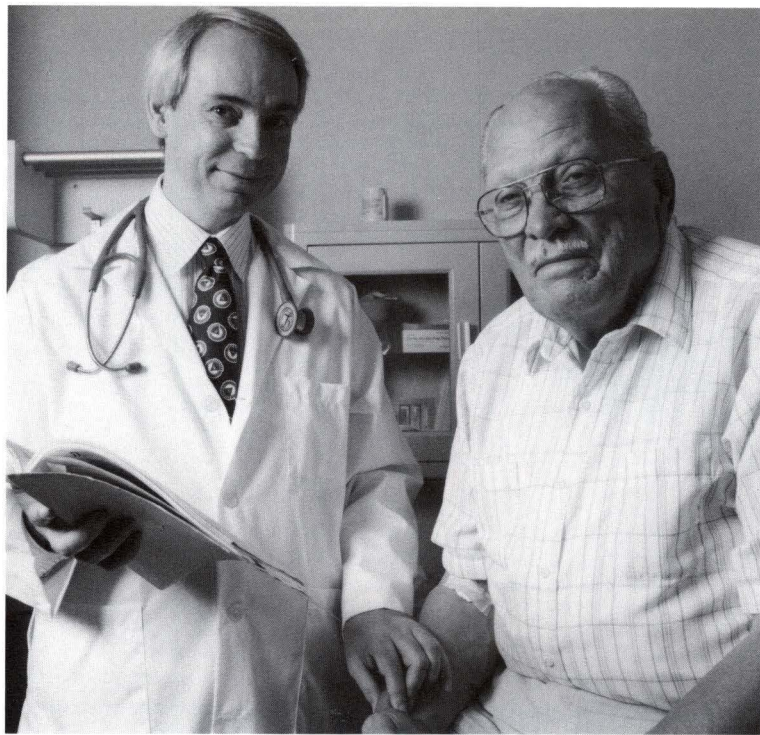
"There are many changes coming in geriatric medicine," says Richard Reed, M.D., M.P.H., associate professor and director of the department's Geriatric Program. "The programs we are establishing now will provide a foundation to build on in the future, when the need for expertise in geriatrics will be tremendous.

"Physicians need to be ready for this change. The average new resident physician is about 26 or 27 years old. In the year 2020, when the number of elderly people will be significantly greater than we currently have, these doctors will be in the middle of their careers. They will have to treat a substantially older group of patients than we currently care for. We need to be training physicians not just for today's practice of medicine, but for the future."

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There is a critical lack of physicians trained in geriatrics in the United States, a lack of qualified specialists to do the training, and very little geriatric education in the nation's medical schools.

"Geriatrics will have to become a fundamental component of all adult practice," says Reed. "Our knowledge base is relatively primitive now, but is growing rapidly and will soon have to be a part of everybody's practice."



Left: Geriatric Program director Dr. Richard Reed and patient William Hill at the University's new Senior Health Center. Below: Dr. Ken Hepburn, co-investigator of the Minnesota Family Workshop.

In a number of areas, the geriatric team at

the University is charting a course that other medical centers will, by necessity, have to duplicate in the near future. The Geriatric Program faculty is coordinating a multi-faceted effort which includes innovative clinical research and education, the Geriatric Fellowship Program, the new Senior Health Center, and a workshop for medical students called the Aging Game.

And never lost in the midst of all the programs are the elderly patients themselves. A creative interdisciplinary team approach — by a very caring, dedicated geriatric faculty — deals with not only medical needs but psychological and social needs as well.

Geriatric evaluation and management: Keeping seniors independent

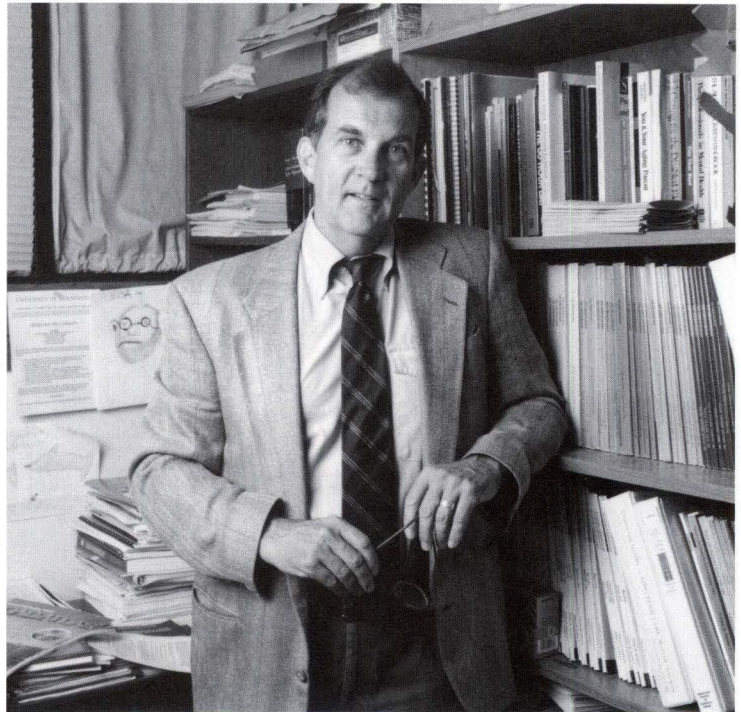
A ground-breaking research project in the Department of Family Practice and Community Health is born of future needs but is affecting the lives of many seniors today. Statistics from the pilot study are significant.

Chad Boulton, M.D., M.P.H., an assistant professor in the Geriatric Program, is directing the project, which focuses on predicting dependency in the elderly.

"We predict that there will be eight million disabled old people in the U.S. by the year 2050," says Boulton, "but interventions now could reduce that number considerably. How can we help these frail old people maintain their health and independence for as long as possible? How can we keep them out of expensive nursing homes and hospitals? How do we cut down on the diseases that most affect them?"

A research grant from the Minnesota Medical Foundation three years ago helped Boulton and his colleagues take the first step — developing a method of identifying elders still living in the community but at high risk of needing frequent hospital care in the future.

A questionnaire was developed, with questions designed to predict which old people would be admitted to



hospitals. This protocol for screening elders has since been adopted by a number of health care facilities around the United States, and is now being used in a new study in Ramsey County.

The new project will involve more than 17,000 Minnesota seniors, with a purpose of keeping high-risk elderly people independent as long as possible. "The main thrust of our geriatric evaluation and management (GEM) project now," says Boulton, "is to treat these frail old people early enough to preserve their quality of life and prevent the need for expensive institutional care."

The project is funded by a \$1.5 million grant from the National Institute on Aging and the Agency for

Recover from surgery. Return home.



Pay life insurance premium. Go back two spaces.

Health Care Policy and Research, and is ongoing from September 30, 1993, to August 31, 1997.

After completing a short health questionnaire, elders who appear to have several conditions that place them at high risk for hospital admission will be asked if they would like to participate in the study. With agreement from their primary physicians, they will be randomly assigned to one of two treatment groups — either continuing their usual care, or supplemental GEM care.

“The GEM care patients will receive very intensive care,” says Boulton. Following a comprehensive evaluation they will receive outpatient treatment by a geriatrician, a nurse practitioner, and a social worker for six months. “We want to find out what problems are really threatening the person’s well-being,” he says. “What things really matter to the person and to the family caregivers.”

The GEM team targets social, psychological, functional, nutritional, and financial problems as well as medical conditions. It consults with dietitians, physical therapists, occupational therapists, psychologists, pharmacists, and other professionals as needed by individual elders.

The GEM team designs a plan of care — typically dealing with five to eight major problems. “We do a lot of work with the caregivers,” Boulton explains. “We discuss medical condi-



tions, such as changes in medications, and also help teach the caregiver how to deal with the person better. This could mean making modifications in the home such as grab bars in the bathroom or getting the person to a senior day care center regularly.” After six months, the patients are returned to their original physicians with a discharge summary.

Both the control patients and those that receive the GEM treatment will be followed for 18 months to analyze differences in quality of life for the patients and the caregivers. Overall cost of care will be tracked as well, with a goal of reducing expensive hospital and nursing home admissions.

“We don’t have any high-tech intervention or extensive knowledge that other doctors don’t have,” says Boulton. “But we are organized, we have the resources, and we can spend time with these very complicated older people. The GEM approach is designed not to take over the care of the patient but to be a resource to primary care physicians and their patients in the future.”

More than 150 people were enrolled in a pilot study last year, and response from both patients and primary care physicians was excellent. Although Boulton notes that the small number of participants makes the pilot study inconclusive, the preliminary results are very encouraging. The GEM program reduced the use of emergency rooms by 40 percent; it reduced the use of nursing homes by 37 percent; and there was an 85 percent reduction in the seniors’ mortality rate.

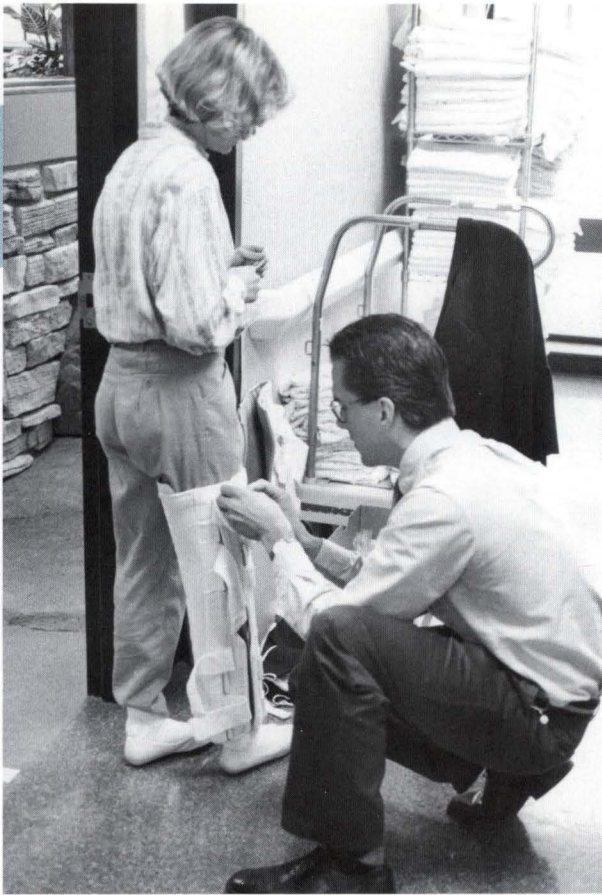
Developing innovative strategies for improving the clinical care of older patients is one of the research themes of the geriatric program. Other studies on this topic are currently ongoing.

Reed, a recipient of an Academic Career Award from the National Institute on Aging, is currently working on two studies seeking ways of improving the care of older patients — one study focuses on rehabilitation of older patients, and a second study involves developing a method of predicting improvement of physical function of older patients in the nursing home.

Joseph Keenan, M.D., associate professor and direc-



Dr. Jim Pacala examines patient Stan Bisek at Ebenezer Nursing Home as medical students from his clinical medicine course observe.



Dr. Jim Pacala prepares medical students for the Aging Game.

tor of the department's residency program, is pursuing an active research program focused on the cholesterol-lowering effects of various agents, including oat bran, timed-release niacin, and other bran products. Keenan is also co-founder and past president of the National Association of Home Care Physicians and has done research on physicians' educational needs related to home care.

Minnesota Family Workshop: Helping caregivers

Caregivers as well as patients are the focus of another research project just underway, called the Minnesota Family Workshop.

Families provide about 80 percent of the care of older people suffering from dementing illnesses such as Alzheimer's disease. It's not an easy job.

"They pay a price for the care they give," says Ken Hepburn, Ph.D., assistant professor in the Geriatrics Program. "It results in stress, adverse affects on physical health and mental well-being, financial strains, you name it."

"The primary caregiver is virtually a one-person nursing home staff," says Hepburn. "They have to cook and clean, create an activity schedule, provide security for the patient, do nursing care, and they don't get any training for all of this."

From long involvement with Alzheimer's disease patients and their families, Hepburn and his colleagues have also learned that the primary caregiver often becomes isolated from the rest of the family — one person does

all the work and other family members are not involved.

To address these problems, the Minnesota Family Workshop was established through a grant from the National Institute for Nursing Research. Hepburn is co-investigator on the project with Sharon Ostwald, Ph.D., R.N., of the School of Nursing, the principal investigator.

The Workshop is designed to do two things: bring families together to see how the disease has affected their lives and how they can work together, and give families a conceptual framework for coping with the disease along with practical skills for managing the behavior of patients.

The seven-week program — with once-a-week evening sessions for both family members and patients — is led by Hepburn, Ostwald, family therapist Wayne Caron, Ph.D., and occupational therapist Theresa Burns.

"We spend time learning what the disease is, what people can expect, and what skills they can acquire," says Hepburn, "and the other facet is examining what's happened to the family — to confront that and begin to bring family members into active participation with the caregiver. They learn how to provide emotional and practical support."

The program has only been up and running since January, 1994, but response from families has been excellent. "The families learn, by observing, just how much their family member with Alzheimer's disease is able to do," says Hepburn. "They are able to take practical skills home with them, and non-caregivers have a better understanding of what the caregiver is dealing with every day."

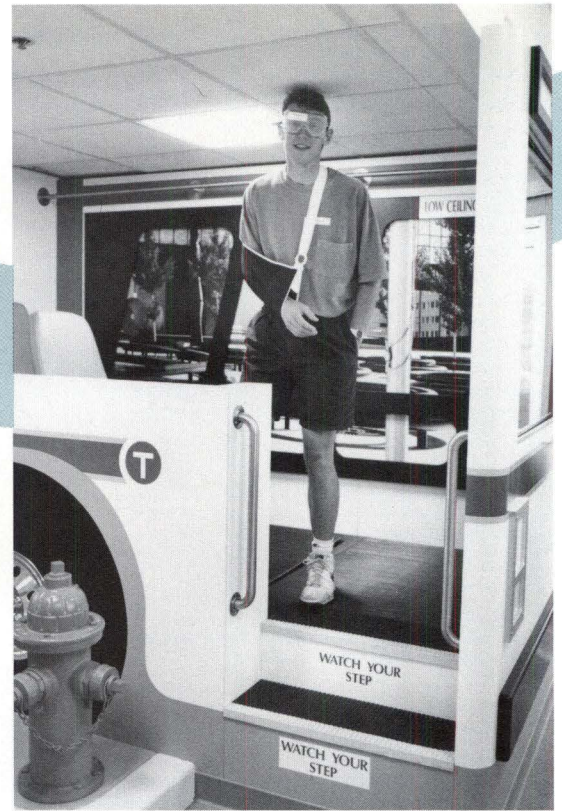
"This is a very serious disease. We hope what we are doing will strengthen the family."

Hepburn is the principal investigator in a related project that he calls the Family Stories Project. The project reflects the deep sense of caring and respect of older people evident in the Geriatric Program faculty.

As Hepburn describes it, "The Family Stories Project

Get hearing aid.
Pay \$400.

"Disabled" students learn to shop and use public transportation. Opposite page, Drs. Pacala and Boulton "talk over" a student and lead nursing home singing.



helps families of nursing home residents with dementing disorders remember and tell stories about the life of the person who is being cared for. Formal care providers, such as day care and nursing home staff, benefit from knowing details about the lives of the persons they care for."

A professionally led group provides techniques for recalling important and meaningful moments in the person's life and shaping these into stories. Families make photo albums and a journal, and, says Hepburn, "people discover things about their own family. The series of exercises they follow can bring the families together as they remember and share past experiences."

The project is funded by a grant from the National Alzheimer's Association.

Educating the care providers

The geriatric team from the University's DFPC is also working with health care providers in the area of education.

James Pacala, M.D., M.S., assistant professor in the Geriatrics Program, has developed a lecture series for residents, covering very practical topics in geriatrics. He's encapsulated the information on laminated cards for easy reference by residents or other physicians who work with the elderly. Topics include such things as Preoperative Evaluation of the Elderly, Care of Nursing Home Residents, Constipation, Urinary Incontinence, and Falls.

"We have a goal to teach at all levels," says Pacala. "This includes all four years of medical school, residency, the fellowship program, and Continuing Medical Education."

Pacala is also involved in research projects focusing on physician education. A current study targets improving preventive screening tests — such as cholesterol tests and mammograms — in the elderly. "We want to look at how these tests are being conducted, and work to improve the ordering and conducting of these preventive tests," he says.

Pacala hopes to develop a future project evaluating primary care of older adults. "We'd like to be able to evaluate outpatient care by community physicians," he says, "to see where they're having the most trouble and where we could intervene to help."

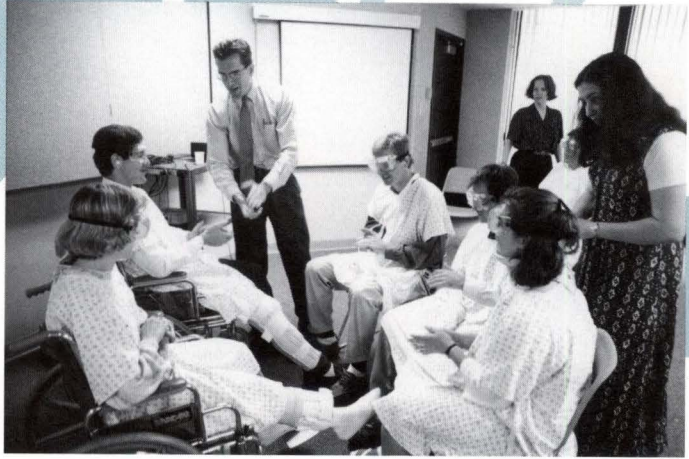
"One of our missions in geriatric education is to teach other doctors what they need to know to take care of old people," emphasizes Pacala. "We've made a real effort to teach family practice residents how to deal with straight bread-and-butter geriatric problems that they'll be able to manage themselves."

Another educational research study, just underway at the Minneapolis VA Medical Center and other VA facilities throughout the country, involves the effective dissemination of Agency for Health Care Policy and Research (AHCPR) guidelines — in this case with regard to the prevention and early management of pressure ulcers.

"It's really about education," says Ken Hepburn, co-investigator and director of the education component of the project, "about how to introduce innovation into clinical practice and how to introduce new information to providers."

Effective dissemination of guidelines is defined as the diffusion, distribution, awareness, adoption, and use of information. Hepburn reports that studies indicate that continuing education (CE), a major vehicle for dissemination, can increase knowledge but is less successful in influencing behavior change. The study hopes to show that by adding an intervention to CE that affects the organizational factors in the workplace, actual behaviors related to the guideline will change.

The investigators will evaluate three dissemination



strategies: the mailing of guidelines; a continuing education program which provides not only information and skills but action plans for putting learning into practice; and CE plus an analysis and improvement methods program, where clinicians will receive training and tools for analyzing and changing the environment in which care is given.

Further studies are ongoing by James Pattee, M.D., assistant professor, who is recognized for his pioneering activities in Continuing Medical Education (CME) in geriatrics. His efforts are focused on improving the knowledge and skills of physicians in practice to help them better care for their elderly patients. For the past several years, Pattee has been course director for a national CME conference on Medical Direction in the Nursing Home, and has recently published a book of the same title.

A unique educational effort involves an exchange between the University of Minnesota's Geriatric Program and the medical school at Ain Shams University in Cairo, Egypt. The partnership, funded by the Binational Fulbright Commission, is designed to help the Cairo faculty develop their geriatrics program and to stimulate geriatric research activities in that country. University geriatricians travel to Cairo to conduct courses in geriatrics for faculty, students, and prac-

ticing physicians, and faculty from the Cairo medical school come to the Twin Cities to observe clinical programs and interact with geriatric researchers at the University.

Geriatric Fellowship Program: A smorgasbord of opportunities

There is an acute need for leaders in academic and clinical geriatrics. The Department of Family Practice and Community Health is addressing this need through the Geriatric Fellowship Program (GFP), which offers a balance of clinical, academic, research, and other leadership activities.



From left, geriatric fellow Dr. Shelly Brodjieski, geriatric clinical nurse specialist Brenda Ebbitt, and geriatric social worker Marilyn Luptak discuss a patient at the Senior Health Center.

Trifocals needed.
Pay \$300.

Grandchildren come
for a visit.



Nursing home “patients” are fed and cared for. After the game is over, they talk with elderly patient Ruth Kelly.

Dr. Shelly Brodjeski, a geriatric fellow who has previously completed a family practice residency, knows not too many medical students are interested in geriatrics. She believes it is important to expose students to the field early on in their training. “They need to have positive experiences with old people,” she says. “They need to get to know what older people are like, and to be around healthy elders as well as those who are ill.”

Brodjeski is halfway through the two-year fellowship program.

As part of their clinical training, fellows care for a group of patients at an ambulatory clinic at University Hospital, and also care for a group of long-term patients at the affiliated nursing homes. If patients are hospitalized during the training period, fellows provide hospital care. Fellows also participate in a family practice clinic each week.

Clinical experiences include inpatient geriatric consultation, training in geropsychiatry, participation in inpatient rehabilitation, and home care of frail elderly patients. Fellows also conduct research projects, co-teach the physical examination course for second-year medical students, and develop an administrative project designed to improve care in a clinical setting.

“I’ve known for many years that I wanted to go into geriatric medicine,” says Brodjeski. “I volunteered in nursing homes in high school and college, and have always loved old people. And I knew there was a real need in this field.” She plans to enter clinical practice after completing the fellowship.

Brodjeski likes dealing with a lot of complexities, and says working with older people is a good field for her. “With elders there are often a number of problems or conditions to deal with — what you do for one problem affects the others. I like being able to solve the problem.”

The Geriatric Fellowship Program at the University of Minnesota is “a smorgasbord of opportunities,” says Brodjeski. “There are so many different people to work with, a variety of sites to train at — the program

offers so much to choose from.”

The GFP interacts with many health sciences departments and units, including faculty from the Departments of Family Practice and Community Health, Medicine, Neurology, Psychiatry, and Physical Medicine and Rehabilitation, and the Schools of Nursing, Pharmacy, and Social Work; and clinical consultation staff from the University Hospital and Clinic, including dietitians and rehabilitation specialists. The GFP also is affiliated with two long-term care facilities which are used as teaching nursing homes.

Brodjeski strongly encourages medical students to consider geriatrics. “There’s a tremendous need,” she says, “and old people are wonderful to work with. Attitudes have changed so much in care of elders; there’s so much that can be done to improve their health and quality of life.”

The Aging Game

Medical students are decades removed from old age, but after total immersion in the Aging Game, that period of life becomes very real to them. Aging Game Workshop leaders Chad Boulton and Jim Pacala hope participation will get students enthusiastic about geriatrics.

“It’s really an eye opener for the students,” says Boulton. “The point of the game is twofold: to give the students a sensitivity to the challenges faced by elderly persons, and to encourage them to want to provide the best possible care to elders — and to realize what a difference it makes to do it well.”

The Aging Game — which became part of the Medical School curriculum this past spring — is conducted at Hennepin County Medical Center’s rehabilitation suite. It works a little bit like the board game “Life,” but



the students are active, not passive, participants.

Students choose a starting age — usually 70 to 80 — and move through a series of stations. At each stop they add five years to their age and draw a card which may tell them they have suffered a stroke, lost a spouse, broken a hip, or experienced other setbacks. Not all the cards are negative — participants might win the lottery or become reacquainted with an old friend — but debilities increase at each station.

Props are added — slings, crutches, and braces limit mobility; socks are filled with popcorn kernels to make walking difficult; goggles limit vision and ear plugs dull hearing. Once in their disabled state, students try to perform daily tasks, which are no longer easy.

The final station for all students is the nursing home, where they are in wheelchairs, unable to care for themselves. Staff members talk over and about them, but not to them, help them onto bedpans, feed them pudding, and brush their teeth.

The experience has a strong impact on the medical students. “You’ve made your point about how older people are commonly treated,” said one student. “I made a resolution to be more sensitive about how I talk to them.”

Students gather after the game for evaluation and a conversation with a real elderly person. They ask questions about life as a senior citizen and learn what is good and not-so-good about care for older people.

Pacala hopes the experience will affect students’ attitudes when the time comes for them to care for elderly patients. “The response thus far has been very enthusiastic,” he says. “Students have given the workshop excellent ratings, and report that being involved in the process is much more valuable than sitting in a lecture.”

“We can’t really sell students on geriatric medicine

in half a day,” says Boulton, “but what we’re trying to do is enrich the whole curriculum from the first year of medical school — exposing students to geriatrics and the issues of taking care of elderly people. The Aging Game is one piece of the picture.”

Jim Pacala and Chad Boulton also teach a Medical School course in introduction to clinical medicine, where students learn how to take patient histories, give physical exams, use the stethoscope and other instruments, and then use their knowledge with real patients.

“I always have my students work with nursing home patients,” Pacala says. “It gives them a different view, and hopefully an interest in caring for the elderly.”

Students accompany the geriatricians on rounds, learning about the special needs of nursing home residents, asking questions, and listening to patients’ concerns.

“We’re not trying to create geriatricians,” says Boulton, “but we’re trying to influence medical education so everyone who takes care of old people — especially primary care physicians — knows geriatrics and likes it. We want them to have optimism and enthusiasm when caring for old people, instead of saying ‘You’re just getting old, there’s nothing we can do.’”

Two University of Minnesota students recently were awarded prestigious Geriatrics Scholarships from the John A. Hartford Foundation. Christine Murphy and Alice Suchomel will study and conduct supervised research for 8 to 12 weeks at UCLA during the coming year. Christine Murphy also spent four weeks in Zurich this past summer studying the Swiss system for caring for elderly people. Both students will present their research at the National Meeting of the American Geriatrics Society in May 1995.

Teamwork in patient care

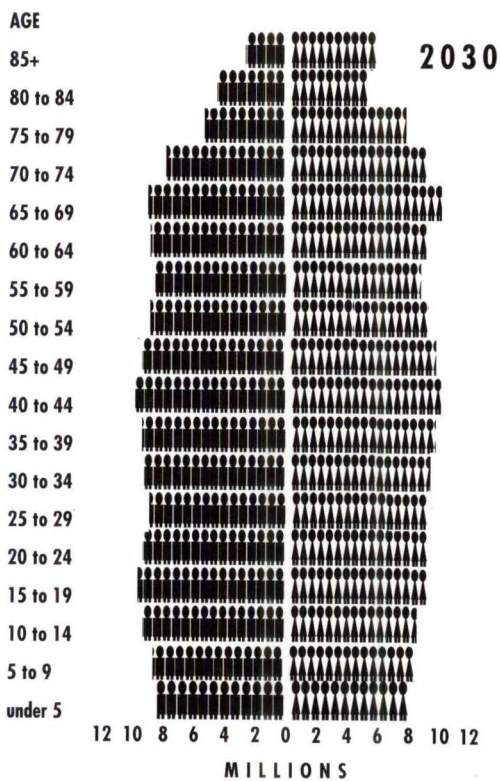
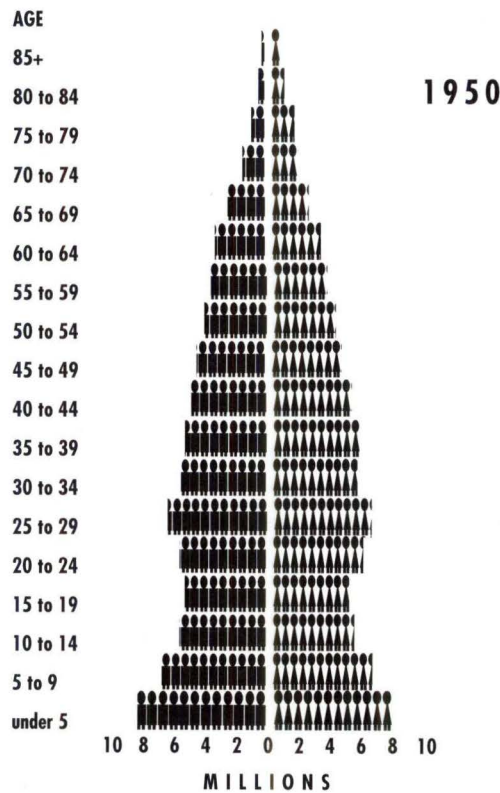
William Hill, a regular patient at the University’s Senior Health Center, knows first-hand about quality care for older people. He readily agreed to have his picture taken with the geriatric staff. “I hope knowing about the Center will help others,” he said.

Break a hip.
Go back five spaces.

Family reunion!
Move ahead
one space.



U.S. POPULATION BY AGE & SEX



Source: U.S. Bureau of the Census.

The Center, less than a year old, offers coordinated care for elders and is indeed helping many patients, who often bring with them medical issues that haven't been addressed in depth. Seniors 60 and above are eligible for care at the Center, which is located in the Phillips-Wangensteen Building in the Medical School complex.

Geriatrician Rich Reed heads the team, which also includes geriatrician Chad Boulton, geriatric fellow Shelly Brodjeski, geriatric clinical social worker Marilyn Luptak, and geriatric clinical nurse specialist Brenda Ebbitt.

"In addition to seeing patients in the clinic," says Reed, "we're working on ways to develop ongoing care for the patients when they leave our office." Each patient's case is discussed at a team meeting, where a physical therapist, dietician, and occupational therapist join the core group.

Numbers of patients seen at the Senior Health Center have been steadily increasing throughout the first year of operation; the core staff is also gradually increasing the amount of time they are available to see patients. Currently the Center is open two half-days a week, but the long-term goal is to be open five days a week.

"Older people often have multiple medical conditions," says Reed. "We're dealing with an average of five to six problems each visit." Team members work with patients and their families to help manage day-to-day issues, with a goal of keeping elders independent and active.

Chad Boulton emphasizes that geriatrics demands an interdisciplinary approach. "It's more than just the physician giving care," he says. "Our clinics are designed with nurses and social workers who work closely with the physician to do what's best for each individual patient."

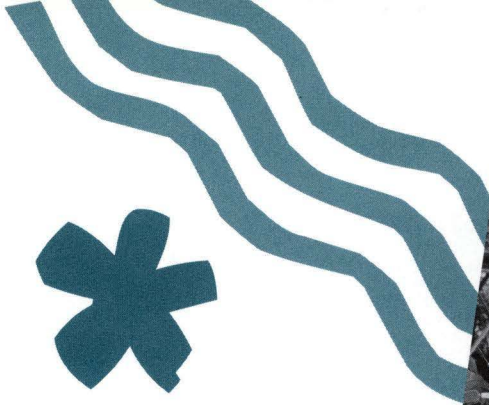
The Geriatric Program faculty also stresses preventive care — and not just for seniors.

"How we live early in our lives impacts our older years," says Reed. "We should be teaching teens how to eat right, not to smoke, the importance of exercise. When you're old you suffer from your early behavior."

He stresses that preventive lifestyles continue to be important in later life. "Exercise, eating right, works for the elderly too. Wellness and prevention of disabling conditions is an important part of our program."

"So much of geriatrics is psychological," says Chad Boulton. "If the elderly person sees that the physician is enthusiastic and positive it can make a real difference in that person getting better."

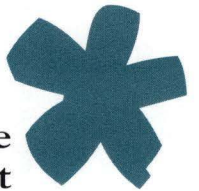
"It's very satisfying work," says Boulton. "We're not just trying to solve the mysteries of the cells — we're trying to apply research to real people's lives." ■



A Time to

Celebrate

Medical School Graduation and Reunions



The first weekend in June was a time for celebration at the University of Minnesota Medical School, as the Class of 1994 finished four years of training and graduates from years past returned to campus to greet former classmates and remember their Medical School experiences.

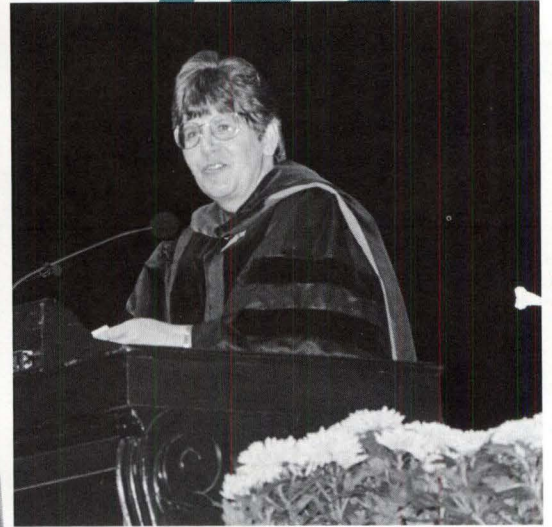
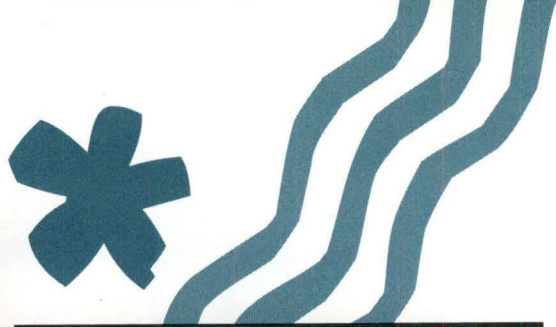
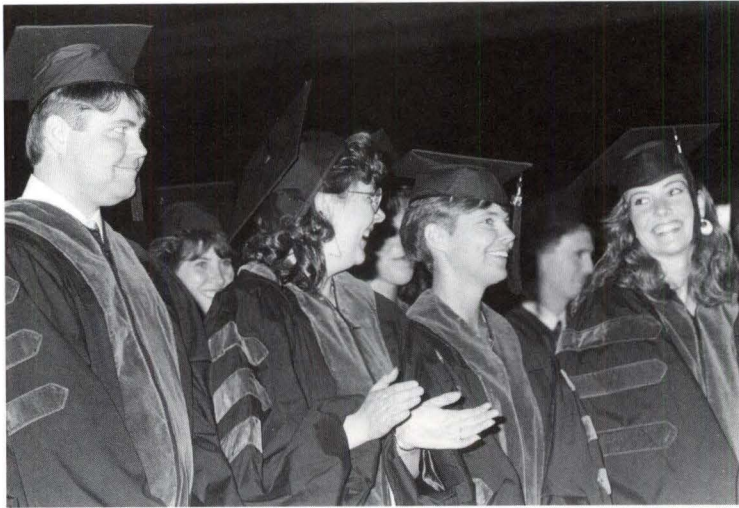
"You are medical doctors, health care professionals, caregivers, and healers," said Dean Shelley Chou, addressing the 209 graduates. "The Medical School continues its tradition, as in the past century, of educating and encouraging physicians. This tradition will go on for many years to come."

The commencement ceremony included recognition of the Medical School Class of 1944 who were celebrating the 50th anniversary of their graduation. The Alumni Service Award was presented to Dr. Reuben Berman, and Outstanding Achievement Awards were given to Drs. Ellis Benson and Paul Volberding. A number of outstanding students who had received Minnesota Medical Foundation awards were also recognized.

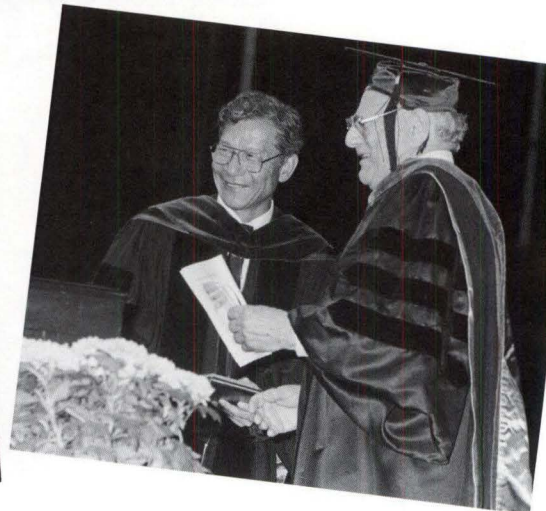
Keith Wyche, president of the Class of 1994, spoke to his classmates, remembering both good and difficult times during the four years of medical school.

The class had selected Dr. Janelle Goetcheus, medical di-

by Jean Murray
and Jodi Ohlsen Read



Photos by Nancy Mellgren



Class of 1994 graduates celebrate. Top right, Dr. Janelle Goetcheus. Bottom right, Drs. Shelley Chou and Reuben Berman.

rector for Christ House in Washington, D.C., to be their keynote speaker. Christ House was founded in 1985 by Goetcheus, and serves not only as a residence for homeless men, but is home for the Goetcheus family, two other physicians and their families, nurses, and social workers.

Goetcheus shared stories of the homeless with the graduates. She urged them to not only provide quality care to individuals, but to also participate in the health care of their community, whether it involves speaking out on increasing TB levels, ensuring that every child in the community is vaccinated, or working full time in a clinic that provides care to the needy.

Dean Chou's comments stressed caring as well. "As the practice of medicine becomes complex, it is not too difficult to lose focus of what our profession truly represents. One can easily be disillusioned and think that this is just a business or a profit-making entity rather than a care-giving profession.

"Certainly," Chou emphasized, "as all of our resources gradually become scarce, we as physicians should be good citizens in terms of fiscal responsibilities. We must insist that the best caring and healing do not necessarily require high technology and its inherent high cost. More often, the best car-



Medical School alumni and guests enjoy Reunion Weekend '94.



ing and healing take the form of mutual understanding and compassion. There is no price tag on trust and compassion. We should believe that the 'Oath of New Physicians' means exactly that."

A reception on Northrop Mall followed the ceremony, with families, friends, and faculty offering congratulations to the new physicians.

Active Alumni

Medical School alumni and guests, representing more than 10 different reunion classes, converged on the campus June 2-4 for Reunion Weekend '94. Several hundred alumni enjoyed a weekend of events and activities at the University and throughout the Twin Cities area. New graduates were welcomed into the ranks of medical alumni, while others celebrated 50 years or more of medicine.

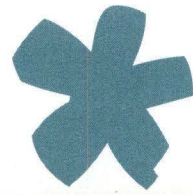


The Medical Alumni Society and the Minnesota Medical Foundation hosted the Class of 1994's First Reunion Graduation Party. The class celebrated together one last time before departing for their residency sites across the country.

The traditional reunions began with a welcome reception on Thursday evening. Reunion headquarters at the Radisson Hotel served as a gathering point throughout the weekend. Alumni visiting the Twin Cities had the opportunity to visit the Mall of America, drive past old family homes, visit friends, walk through campus, and take part in many other activities.

Half-Century Club members welcomed the class of 1944 into their prestigious ranks at the Half-Century Club Luncheon on Friday. Membership is limited to those alumni who have celebrated their 50th year reunion. Alumni were treated to a presentation by Dr. Leonard Wilson, professor of history of medicine, that illustrated the history of the Medical School and





focused on the war years.

At commencement exercises for the Class of 1994, each 50-year reunion class member was introduced and marched down the aisle — one of the highlights of the reunion. The Class of 1944's participation shows the new physicians the tradition and legacy of the Medical School and its alumni.

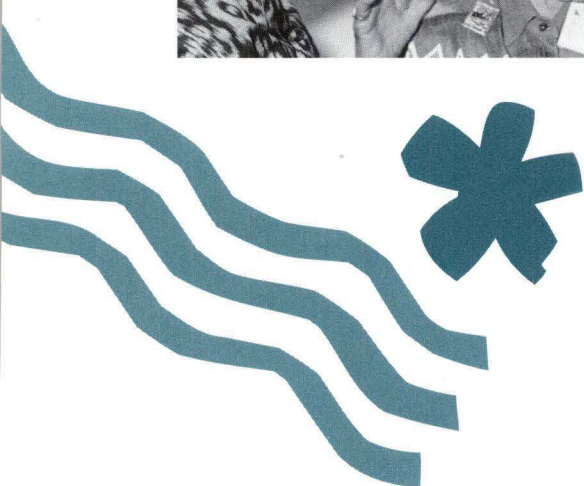
The Medical Alumni Society initiated the first Dean's Reception and Dinner. This Friday evening event gave alumni the opportunity to visit with Medical School administrators, including Dr. Shelley Chou, interim dean of the Twin Cities campus, Dr. Ronald Franks, dean of the UMD School of Medicine, and Dr. Bill Jacott, assistant vice president for Health Sciences.

Early Saturday morning, individuals seeking continuing medical education (CME) attended New Horizons in Minnesota Medicine.

The CME program is designed to highlight research, faculty, and alumni of the University of Minnesota Medical Schools. This year's presenters included Drs. Ashley Haase, Stanley Goldberg, Jane Korn, C. Paul Martin, Gerald Hill, and Robert Miller. Presentation topics ranged from Native American health issues to a discussion of HIV.

The cornerstone of the weekend was the Reunion Dinner and Program, held Saturday evening. During the annual meeting portion, Dr. Dorothy J. Horns, '76, was unanimously elected as the new president of the Medical Alumni Society. The evening also featured Diehl Award presentations to Drs. N.L. "Neal" Gault, Jr. and Tague Chisholm. Alumni gathered with their individual classes throughout the evening to reminisce and enjoy the fellowship.

Reunion Weekend '95 is being planned for June 1-3, 1995. The Classes of 1935, 1940, 1945, 1950, 1955, 1960, 1965, 1970, 1975, and 1985 are especially encouraged to attend, and all alumni are welcome at the activities. Those interested in helping plan their reunions should contact the Medical Alumni office at 612-625-8676 or 1-800-922-1663. ■



Diehl Awards winners

The Medical Alumni Society selected *Drs. N.L. "Neal" Gault, Jr. and Tague Clement Chisholm* as recipients of the 1994 Harold S. Diehl Award. Given in honor of the University of Minnesota Medical School's fifth Dean, Dr. Harold Sheely Diehl, the award is presented to individuals who have made outstanding professional contributions to the Medical School, the University, and the community.

Dr. Gault, Class of 1950, has been referred to as a quiet person who never trumpets his accomplishments. Yet when his contributions are added together, he stands apart. He has brought international recognition to the University through his work as physician, faculty member, dean of the Medical School, and as an ambassador.

"It is a great honor to receive this award, named in honor of Dean Diehl," says Dr. Gault.

"He was my mentor in medical school administration and I was a great admirer of his leadership in medicine, public health, and medical education. Our great personal relationship adds to the significance of this award."

From 1959 to 1965 Dr. Gault served as assistant dean and associate professor of medicine at the University of Minnesota and then as associate dean and professor. Dr. Gault was recruited to the University of Hawaii School of Medicine as associate dean and professor of medicine in 1967. He returned to Minnesota to serve as professor of medicine and dean of the University of Minnesota Medical School from 1972 to 1984 and has continued as professor emeritus and dean emeritus.

Committed to international medical education, he has held various international positions throughout his career. Dr. Gault has worked as chief medical advisor at the Seoul National University in Korea, as a medical education consultant in Saigon, an Agency for International Development consultant in Turkey and Lebanon, and as consultant to the Japanese Ministry of Foreign Affairs. He has received numerous awards for this work including the Order of the Rising Sun Gold Rays with Neck Ribbon from the Government of Japan in 1992.

Dr. Gault has played an important part in the Minnesota Medical Foundation as a member of the board of trustees since 1956 and as senior consultant. He and his wife, the late Dr. Sarah Gault, also established an endowed



Dr. Neal Gault

Harold S. Diehl Award Recipients

- 1962 Owen H. Wangensteen, '21
- 1963 Donald J. Cowling
Charles G. Sheppard, '35
- 1964 Vernon D.E. Smith, '30
- 1965 Karl W. Anderson, '23
- 1966 J. Arthur Myers, '20
- 1967 Theodore R. Fritsche, '30
- 1968 Walter H. Halloran, '15
Anderson C. Hilding, '18
Carl H. Holmstrom, '29
- 1969 Karl R. Lundeberg, '25
- 1970 Robert N. Barr, '30
LeRoy J. Larson, '20
- 1971 William C. Bernstein, '27
J.C. Grant, '42
- 1972 J. Richards Aurelius, '22
Barbara M. Puumala, '59
Marie Bepko Puumala
Reino Puumala
Ricard R. Puumala, '59
- 1973 Phillip Halenbeck
Olga Hansen Litzenberg, '15
- 1974 Ann Arnold
Roger A. MacDonald, '46
Carl O. Rice, '25
R.S. Ylvisaker, '26
- 1975 Reuben Berman, '32
Bror F. Pearson, '31
Lawrence Richdorf, '20
- 1976 Milton M. Hurwitz, '39
Leonard Lang, '28
Russell O. Sather, '32
- 1977 Ruth E. Boynton, '20
Virgil J.P. Lundquist, '42



fund for international medical education. He continues to be involved in many other projects, including serving as consultant to the director of the VA Medical Center, as special staff to the vice president for Health Sciences at the University of Minnesota, and as consultant to the veterans planning and coordinating committee of the American Legion.

Dr. Chisholm has been contributing to children's health care since 1947. He was the first fully trained pediatric surgeon in Minnesota and developed one of the largest pediatric surgical practices in the United States.

A 1940 graduate of Harvard Medical School, he completed his residencies at Children's Hospital and Peter Bent Brigham Hospital in Boston and was a fellow in surgery at Harvard Medical School in Boston.

He was a founder of the Minneapolis Children's Hospital and has contributed to its continued viability and growth. From 1958 to 1976, Dr. Chisholm served as chief of pediatric surgery at Hennepin County General Hospital. He has been on staff at several other hospitals, including Minneapolis Children's Health Center, Fairview Hospital, St. Mary's Hospital, Methodist Hospital, Metropolitan Medical Center, and North Memorial Medical Center.

In addition to his medical practice, Dr. Chisholm has also been actively involved in medical education. He has served as clinical professor of surgery at the University of Minnesota since 1962. Earlier, he was clinical assistant professor in surgery at the University and an instructor in surgery at Harvard Medical School. In Brazil, he taught on the S.S. Hope and taught pediatric surgery for the HOPE Foundation.

He has received numerous awards, including two other prominent Minnesota awards — the Charles Bolles-Bolles Roger's Award from fellow doctors in the Hennepin County Medical Society and the Gold-Headed Cane Award from the Department of Pediatrics. "I was thrilled to receive the Diehl Award," says Dr. Chisholm. "There are three wonderful Minnesota awards, and this is my third. As my family says, I've got the triple crown. It's a very special award, and I'm honored and delighted."

The Diehl award is most often given to a University of Minnesota Medical Schools graduate. Only seven other recipients have been graduates from other universities, which makes a special award even more meaningful to Dr. Chisholm. ■



Dr. Tague Clement Chisholm

- 1978 Lester H. Bendix, '28
Herman E. "Tiny"
Drill, '29
- 1979 Miland E. Knapp, '29
Harold E. Wilmot, '23
- 1980 Helen L. Knudsen, '43
Donald E. Stewart, '37
- 1981 Eva Jane (Ostergren)
Larson, '38
Carl Ragnar Wall, '28
- 1982 Stuart Lane Arey, '31
Kristofer Hagen, '42
- 1983 John J. Eustermann
John J. Regan, Sr., '43
- 1984 Arnold S. Anderson, '43
John W. Anderson, '51
- 1985 Kenneth W. Covey, '43
Frank E. Johnson, '43
- 1986 A. Boyd Thomes, '42
- 1987 Marcy L. Ditmanson, '54
Malcolm M. Fifield, '50
- 1988 Chester A. Anderson, '44
Robert B. Howard, '44
Arnold J. Kremen, '37
- 1989 Howard L. Horns, '43
Austin M. McCarthy, '42
- 1990 M. Elizabeth
"Peggy" Craig, '45
John P. Stapp, '43
- 1991 Dorothy Bernstein
Irving C. Bernstein, '42
- 1992 Frederic J. Kottke, '45
William A. O'Brien, Jr., '46
- 1993 John I. Coe, '45
Howard B. Burchell





Grants:

Linking scientist, community, and university

by Jodi Ohlsen Read

University researcher receives \$819,110 NIH grant ♦

“People might say, big deal, the guy got a grant and he can play in the laboratory,” quips Joseph Di Salvo, Ph.D, Edwin Eddy Professor and chair of the Department of Medical and Molecular Physiology, University of Minnesota, Duluth, School of Medicine. “I do believe that scientists have the curiosity of children — we have the opportunity to continue to ask questions like ‘what’s that’ and ‘how does it work.’” But that’s only part of it.

Grants affect more than just the scientist, they affect the community — directly and indirectly. “The grants pay for the work that has to get done, they pay for the research,” says Di Salvo, who recently received a four-year grant from the National Institutes of Health (NIH). “But, the public also has a stake in basic research. That stake is tax dollars, jobs, and

being one of the healthiest countries in the world.”

To help maintain that high level of health, research is essential. Without it, scientists could not generate the new information necessary for medical progress. Researchers and research institutions depend on grants for most of their project funding.

The University of Minnesota received \$212.1 million in federal science grants in 1992 — tenth in a National Science Foundation ranking of universities nationwide. While these funds are critical for the University’s research, they also affect the Duluth area. “When a grant is awarded to someone at the University, it is a mechanism for tax dollars generated in a community to come back to the very same community,” says Di Salvo.

An average NIH grant is around \$150,000 a year and some grants are for one or two million dollars over a five-year period, according to Di Salvo. “That’s a lot of money coming back into the area,” he says. “A lot of tax money, tax money we’ve paid.”

Grant funds not only pay for equipment, they also pay for salaries. In other words, grants generate jobs. “For example, from an average size grant of about \$150,000 a year, around 75 percent is for salaries. Each grant could pay the salary of one to three people. That means that one to three people have jobs who wouldn’t have without that grant,” explains Di Salvo. “These people eat, buy clothes, they pay taxes — it’s a way for money to circulate.

“Moreover, a grant of this size also carries an additional 40 percent or so which is awarded to the host institution. The ‘indirect costs’ contribute to University-wide activities.”

His own NIH grant helps fund two researchers, Stephanie Nelson, a full-time senior laboratory technician, and Lori Semenchuck, a Ph.D. candidate. For these women, Di Salvo’s grant means a paycheck on payday as well as funding for them to pursue the work they have trained for and enjoy. In addition, the grant provides partial support of Di Salvo’s salary, funds for projected work study students, and research support for a master’s student, Nihal Kaplan.

Along with these researchers, Di Salvo is studying smooth muscle to learn more about how it works. Smooth muscle lines all of the hollow organs of the body, such as blood vessels, the gastro-intestinal tract, and the uterus. Through his research, he hopes to find out how factors such as calcium level alter contraction

of smooth muscle. Results of this effort could potentially impact a number of diseases, including high blood pressure, stroke, heart attacks, and uterine function. For example, says Di Salvo, new drugs could be developed that could be helpful in treating high blood pressure.

The underlying premise of Di Salvo’s research is new. His work is guided by the idea that adding phosphates (a process called phosphorylation) changes spe-



Nihal Kaplan monitors real-time changes of calcium in vascular smooth muscle cells. Photos on page 17, clockwise: Dr. Joseph Di Salvo; Duluth, Minnesota; and University of Minnesota, Duluth, School of Medicine.

cific parts of certain proteins in smooth muscle. He hypothesizes that these changes are important for regulating cell calcium, which affects muscle contraction. Simply stated, he believes that phosphorylation of specific proteins affects the regulation of calcium in smooth muscle cells.

Experiments are being conducted at several levels: cellular, physiological, and molecular. At the microscopic or cellular level, Di Salvo and his colleagues are working with cultured cells. The blood vessel cells are studied to measure whether protein tyrosine phosphorylation is involved in regulating the concentration of calcium in smooth muscle cells.

The second level of studies involves tests with intact, living segments of smooth muscle. Through the experiments with living segments, they hope to define the relationship between protein tyrosine phosphorylation and how the muscle contracts.

In the molecular studies, Di Salvo uses biochemistry processes to look for phosphorylated proteins in the cells and preparations. He then tries to construct a map telling what happens when the smooth muscle cell is activated which leads to increased cell calcium, and then leads to contraction.

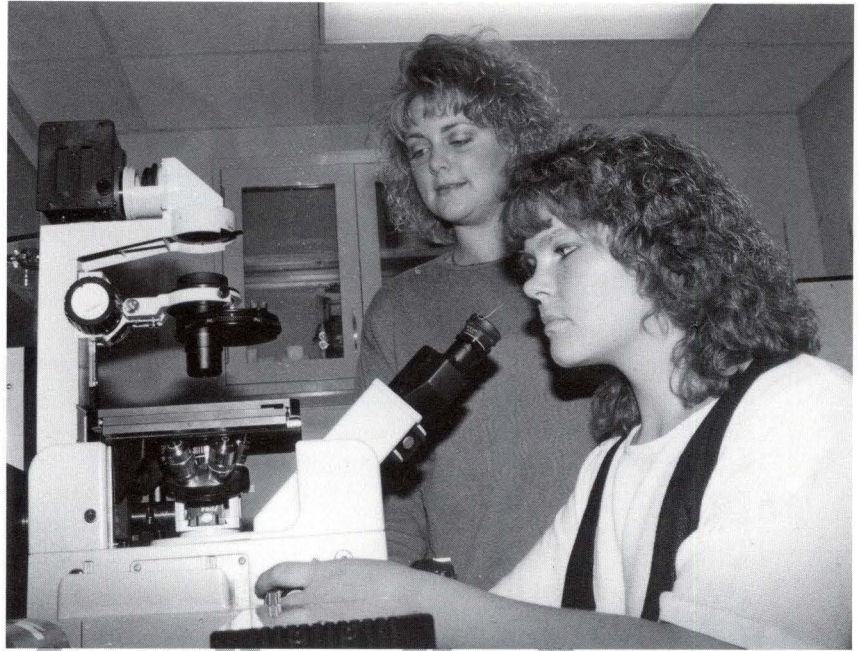
Prior to the recent NIH grant, Di Salvo received "seed" money from the Minnesota Medical Foundation (MMF). In 1992 he was awarded a \$6,000 MMF grant that enabled him to complete a preliminary study of smooth muscle cells. Results from smaller studies are usually required by government funding agencies before a grant is even considered. Often, researchers need small grants to gather data necessary to qualify for a larger NIH grant. MMF fills this need by awarding faculty research and special grants.

Last year MMF invested more than \$250,000 in faculty research projects and nearly \$240,000 in special grants for equipment purchases. Each grant is a relatively small sum averaging \$5,000 for research projects and \$9,000 for equipment grants, but the effect is substantial. Because of these grants, scientists are able to work on projects essential to securing major funding.

Also, Dr. Ron Franks, dean of the University of Minnesota, Duluth, School of Medicine, notes that investing in research can bring down the cost of medical care. In one example, he explains that magnetic resonance imaging is a relatively new technology that can cut cost by reducing the need for exploratory surgery.

Grants, according to Di Salvo, are a contract between scientists, institutions, and the public. "A contract we can all benefit from," he says. "When funding is good those tax dollars come back, those tax dollars create jobs, and the advance of information continues and health continues to improve.

"This is why, when funding goes down as it is now, it threatens not only development of new and useful information but also the community. The reality is, basic research is an investment in the future." ■

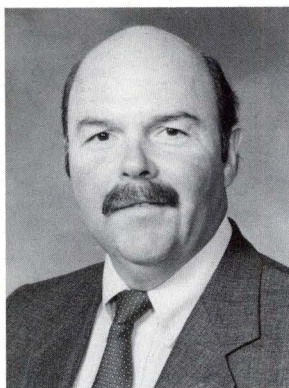


Stephanie Nelson and Lori Semenchuck examine vascular smooth muscle cells.

Photos by Dan Schlies

UMD establishes new award

The University of Minnesota, Duluth, School of Medicine has established a new annual award in recognition of **Dr. William Jacott's** efforts in establishing the School of Medicine, the Duluth Family Practice Residency, and in promoting family medicine. The William Jacott Family Medicine Award will be presented by the Department of Family

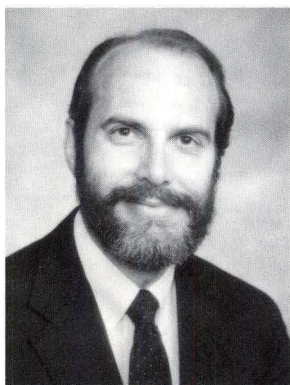


Dr. William Jacott

Medicine to the individual that most reflects the values and interests of family medicine. ■

UMD dean meets with Clinton

Dr. Ron Franks, dean of the University of Minnesota, Duluth, School of Medicine, met with President Clinton in June to discuss health care



Dr. Ron Franks

reform efforts. Franks was invited to the White House along with other medical school deans,

directors of teaching hospitals, and chancellors of academic health centers from around the country.

He endorses the president's efforts to guarantee universal medical care, but notes that health care reform will be costly. Medical schools can help, according to Franks. The schools have three major roles to play in the reform: educate upcoming physicians and health care professionals, encourage creative and relevant medical research, and provide health care for underserved populations. ■

Arendt appointed to President's Council

Dr. Elizabeth Arendt has been appointed to the President's Council on Physical Fitness. As an orthopaedic surgeon, assistant professor, and medical director for men's and women's varsity athletics at the University of Minnesota, Arendt brings much experience to the council. She, and the 19 other council members, will advise President Clinton and Secretary of Health and Human Services Donna Shalala on fitness and health issues.

Arendt is the first female director of a Big

Ten athletic department and is the only Minnesotan on the council. A graduate of the University of Rochester School of Medicine, she joined the University of Minnesota orthopaedic surgery department after completing a sports medicine fellowship in 1985. She serves on the National Collegiate Athletic Association committee on competitive safeguards and medical aspects of sports and is also researching stress injuries in female athletes and their relationship to menstruation irregularity. ■

Cerebellum involved in problem solving

The cerebellum has a greater role in problem solving than previously thought, according to University researcher **Dr. Kamil Ugurbil**, professor of radiology, and his colleagues. Their study results were published in a recent issue of *Science*.

As study subjects worked on a very difficult pegboard puzzle, magnetic resonance imaging (MRI) scans showed an immense increase in "message sending" activity near the center of the cerebellum — the part of the brain previously thought to be involved in balance

and coordination, not intellectual functions. This demonstration marks an important advance in mapping the human brain, according to the researchers.

Ugurbil and his colleagues say that mapping the brain can help doctors diagnose and treat brain disease, assist surgeons as they seek safe routes to tumors below the brain's surface, and assess the outlook after strokes. The MRI techniques that enabled the investigators to detect brain activity were developed at the University. ■

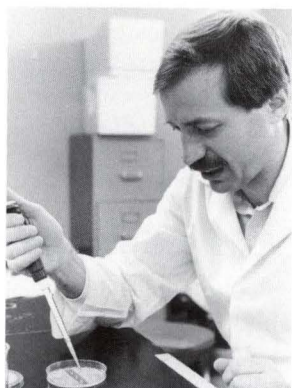
Battling “flesh-eating” bacteria

A deadly strain of strep, termed “flesh-eating” by the media, has been making headlines for months. **Dr. Patrick Schlievert**, professor of microbiology, has been at the forefront of the communication battle, providing factual information and consulting on local cases.

The invasive strain of group A streptococcus bacteria is different than the group A strep that causes strep throat. The aggressive strains are infected with a virus that directs the bacteria to produce a toxin which turns the strep into a penetrating bacteria. Group A strep can cause a fatal drop in blood pressure, toxic shock, and organ failure. In some cases, necrotizing fasciitis can “eat” away flesh as bacteria feed on skin tissue nutrients and produce a waste product toxin, leaving dead tissue in its path.

Although group A strep is rare, according to Schlievert it’s important to be aware of the symptoms and seek immediate medical attention. If recognized early, the strep infection can easily be treated with antibiotics.

Schlievert recently acted as consultant when University doctors



Dr. Patrick Schlievert

successfully treated a pregnant mother infected with group A strep, and her baby. Doctors delivered the baby eight weeks prematurely and surgically removed dead tissue from under the mother’s arm. ■

Patients’ marrow fights leukemia

A University researcher has developed a technique that uses leukemia patients’ own bone marrow to help fight the cancer. This technique, called autologous bone marrow transplant, may significantly extend the lives of people with chronic myelogenous leukemia (CML) — one of the deadliest forms of adult leukemia.

Dr. Philip McGlave, professor of medicine and director of the adult bone marrow transplantation program, describes the technique and results of his research in the June

Surgery resident develops cancer therapy

Testing of a new anticancer therapy began last May at the National Cancer Institute (NCI). University of Minnesota surgery resident **Dr. Mark Saxton** developed the new process while working in the NCI immunology laboratories in Frederick, Maryland. He has been on leave for the past three years to work at the labs.

The new therapy works by strengthening T-helper cells that direct immune system “killer” cells to attack and destroy cancer cells. He uses antibodies to purify the helper cell and to stimulate greater activity. This

method encourages the body to defend itself more naturally, says Saxton. And, boosting the T-helper cells may have potential for AIDS treatment.

Saxton’s research was built on work started by **Dr. Cynthia Loeffler**. Researchers in the labs of **Dr. Peter Anderson**, pediatrics, University of Minnesota, and **Dr. Augusto Ochoa**, a former University researcher who now heads the NCI immunotherapy lab, also helped develop the therapy. ■



Dr. Philip McGlave

issue of the *Lancet*. The patient’s marrow is removed, incubated with an anti-cancer substance, washed, and frozen. After a week, the marrow is thawed and infused into the patient’s veins.

According to McGlave, 125 of 200 people with CML were still alive and healthy up to eight years after using this treatment. He says it’s still too early to call such survivors cured but the results are significant. Other researchers at the University and at other institutions are improving ways of purifying the removed marrow to remove any traces of leukemic cells. They are also searching for ways to stimulate the patient’s white cells, which help destroy cancer cells. ■

DEPARTMENTAL UPDATES

Anesthesiology

Dr. Richard Carr, research fellow, won an award for his research paper presented at the American Academy of Pediatrics. **Dr. Paul Iaizzo**, assistant professor, won two awards for his paper presented by postgraduate students from his laboratory. **Dr. Ian K.**

Hasirroff, anesthesiologist and critical care specialist, joined the department July 1 as an assistant professor.

Dr. Kumar G. Belani was a visiting professor in Japan during July.

Biochemistry

Dr. John Anderson, professor, was selected for the 1994 Educator of the Year Award by the St. Paul Rotary Club. **Dr. Henricus Hogenkamp**, professor, received a \$25,000 grant from the Graduate School for "Active Site Analysis of the Ribonucleotide Reductase System." **Dr. David Thomas**, professor, received a grant of \$149,690 from the Muscular Dystrophy Association for "New Spectroscopic Probes of Myosin Dynamics in Muscle." **Dr. Christine Karim**, post-doctoral associate, received a \$24,000 grant from the American Heart Association for "Magnetic Resonance Studies of Spin-labeled Cardiac Sarcoplasmic Reticulum." **Dr. Ewa Prochniewicz**, research associate, received a \$72,000 grant from the American Heart Association for "Role of Actin Dynamics in Molecular Motility."

Community-University Health Care Center

The department received a \$20,000 grant from the Minneapolis Foundation and a \$25,000 grant from General Mills Foundation. Both grants will help support the Southeast Asian Community Coalition for Youth and Families project.

Marjore Thompson, LICSW, joined the mental health staff to work with the Southeast Asian Family Support Program. **Jacque Green**, senior human services associate, joined the mental health staff to work with the Steps Toward Efficient and Effective Parenting (STEEP) program and to co-facilitate support group services for the African American survivors of sexual assault and incest. **Mary Jordan, RN, MS, PNP**, joined the pediatric medical staff as a pediatric nurse practitioner.

Dermatology

Dr. Janellen Smith, assistant professor, has been elected secretary-treasurer of the National Association of VA Dermatologists. **Dr. Christopher Zachary** has been appointed chair of the outpatient committee at the University of Minnesota Health Center. He was also elected fellow of the Royal College of Physicians, Edinburgh, Scotland.

Laboratory Medicine & Pathology

Dr. Ellis Benson received the University of Minnesota's Outstanding Achievement Award, the University's highest alumni honor, at the June 3 commencement. Benson, a 1945 Medical School graduate, headed the department from 1966 to 1989.

Medicine

Dr. Peter B. Bitterman was elected to the American Society for Clinical Investigation at the annual meeting in May. **Dr. Joseph Bloomer** received a Merit Award from the National Institutes of Health to fund ongoing efforts to identify the basis of the biochemical and clinical manifestations in disorders of porphyrin metabolism. The focus of his work is on protoporphyria, a disorder in which liver disease may be a prominent feature. Dr. Bloomer has received continuous funding from NIH since 1976 to support this research. He is the fifth member of the department to hold the award.

Microbiology

Dr. Ashley Haase chaired the Aids Research Advisory Committee for the National Institute of Allergy and Infectious Diseases (NIAID) which discussed the feasibility of an AIDS vaccine.

Neurology

Drs. Bret Haake, Laura Ranum, Brad Wrubel, and Souhel Najjar were recently appointed to the department faculty. Haake will serve as director of the Outpatient Neurology Clinic and will focus on cerebral vascular diseases. Ranum will direct the molecular neurogenetics laboratory and will study the "Lincoln" ataxia — a cerebellar disorder — and facilitate efforts in neurogenetics. Wrubel will participate in the Neuromuscular Disease Program and will perform EMG, nerve, and muscle biopsy interpretations. Najjar will be medical director of the Epilepsy Clinic at the VA Medical Center.

Dr. Richard Price, professor and head, presented the report "AIDS and Behavior: An Integrated Approach" to the public on July 27.

Neurosurgery

Dr. Donald L. Erickson has been promoted to professor. *Dr. Stephen J. Haines* has been appointed director of the National Neurosurgical Center for Outcome Research Studies. *Dr. Timothy Ebner* has been appointed to the Scientific Advisory Board of the Dystonia Medical Research Foundation for a four-year term.

Dr. Paul J. Camarata has been elected chair of the Young Neurosurgeons Committee of the American Association of Neurological Surgeons (AANS). *Drs. Eric P. Flores* and *Walter A. Hall* won the Preuss Award of the Congress of Neurological Surgeons/AANS for their work "Growth Inhibition of Glioma and Medulloblastoma Cells." *Dr. Walter C. Low* has been elected secretary for the American Society for Neural Transplantation.

Several faculty members received grants, including *Dr. Stephen J. Haines*, \$2,750,598 from the National Institute of Neurological Disorders and Stroke (NINDS) for conventional vs. percutaneous disectomy — a clinical trial, and *Dr. William F. Ganz*, an NINDS grant for a multi-institutional randomized study of patients with severe head injuries.

New research projects were begun by *Dr. Walter A. Hall*, treatment of malignant brain tumors with genetically engineered antisense oligonucleotides; *Dr. Donald L. Erickson*, posterior and anterior interbody fusion using a cylinder implant system; and *Dr. Deepak Awasthi*, free radical pathophysiology after brain injury.

Obstetrics & Gynecology

Dr. Laurel King was a visiting associate professor in ovarian cancer research during July and August. King, a graduate of the department's Gyn-Oncology Fellowship Program, collaborated with *Drs. Carson, Saltzman, Hartenbach, Roy, and Ramakrishnan*. Her studies focused on the genetic regulation of liver protein metabolism in ovarian cancer and she completed a clinical project on women with granulosa cell tumors of the ovary.

Dr. Pam Carney has joined the department as a new gyn-oncology fellow to receive specialized clinical and research training. Carney graduated from Loyola University Medical School in 1990 and completed her ob-gyn residency at Duke University in 1994.

Pediatrics

The Department of Pediatrics' Annual Education, Research, and Service Recognition banquet was held June 17. The Gold-Headed Cane Award, established to recognize a pediatrician's dedication to the health of Minnesota children, was awarded to *Dr. Elizabeth Jerome*, clinical associate professor, and *Dr. Stephen Boros*, director of neonatal medicine, Children's Hospital of St. Paul, and professor of pediatrics.

The Division of General Pediatrics and Adolescent Health, directed by *Dr. Robert Blum*, professor, has been named a World Health Organization (WHO) Collaborating Center on Adolescent Health. A WHO Collaborating Center for Reference and Research on Streptococci, headed by *Dr. Edward L. Kaplan*, professor, Divisions of Infectious Disease and Cardiology, is also located at the University of Minnesota.

Dr. Robert J. Gorlin, Regents' Professor Emeritus of Oral Pathology and Genetics, received the Ralph J. Abercrombie Distinguished Speaker Award for Outstanding Contributions in Medical Genetics. *Dr. Margaret K. Hostetter*, professor and director, Division of Infectious Disease, has been named chair of the March of Dimes clinical research review panel. She has also been appointed to the NIH Study Section in Bacteriology and Mycology.

Dr. Gary Remafedi, assistant professor, Division of General Pediatrics and Adolescent Health, has been honored with a Letter of Recognition from the Secretary of Health and Human Services for his Youth and AIDS project. The Secretary's Community Health Promotion Award is given out every two years in each state. *Dr. Fatih Uckun*, professor, Department of Therapeutic Radiology and Division of Pediatric Bone Marrow Transplant, is the recipient of the 1994 Research Award from the Radiation Research Society.

Pharmacology

Dr. Stan Thayer received three years of National Science Foundation funding for his ongoing project "Buffering Calcium Transients in Neurons." *Dr. Li-Na Wei* has two ongoing research projects: one project aims to identify new genes involved in mouse embryogenesis and the other is to create transgenic mouse models for studying cellular retinoic acid-binding protein I. The cost of a cryostat has been provided by a grant-in-aid from the Graduate School and a special grant from MMF.

Physical Medicine/Rehabilitation

Dr. Judy Reisman is the first research fellow appointed by Sensory Integration International. The award includes a \$5,000 grant which she will use to study autonomic correlates of sensory defensiveness.

Dr. James Carey, associate professor, became the new director of the Physical Therapy program on July 1. **Dr. Erica Stern**, assistant professor in occupational therapy, was named to the Roster of Fellows of the American Occupational Therapy Association. **Corinne Ellingham, P.T.**, received the Lucy Blair Service Award from the American Physical Therapy Association. **Dr. Bonnie Warhol** will be joining the staff as assistant clinical professor in September.

The neuropsychology laboratory has been moved to the Department of Physical Medicine and Rehabilitation. **Dr. Deb Roman**, neuropsychologist, is director of the clinical laboratory.

Radiology

Drs. Steve Hite and **William Mize** have joined the junior faculty. Both have just completed a pediatric radiology fellowship at Cincinnati Children's Hospital. **Dr. Tom Gilbert** will also be joining the department as a musculoskeletal radiologist with an interest in sports medicine and musculoskeletal MRI.

Dr. Robert Boudreau has been appointed president of the central chapter for the Society of Nuclear Medicine. He is also a trustee for the National Society of Nuclear Medicine. **Dr. William M. Thompson**, chair, gave the first Edward Anderson Lecture on Diverticulitis at the Gunderson Clinic in June. **Dr. James Walsh** was the invited speaker to the Radiological Society of Sao Paulo, Brazil, in August. **Dr. Russ Ritenour** is the president-elect of the local chapter of the American Association of Physicists in Medicine. **Dr. Harry Griffiths** was recently visiting professor to the Universities of Istanbul and Izmir, Turkey.

Surgery

Dr. Michael A. Maddaus, assistant professor, announced that a new Emphysema Surgery Program has been established at University Hospital. **Dr. John A. Weigelt**, University department vice chair and chief of surgery at St. Paul-Ramsey Medical Center, was installed April 30 as chair of the American College of Surgeons Committee on Trauma at the annual meeting in Washington, D.C. **Dr. David H. Ahrenholz**, associate professor and associate director of the Burn Center at St. Paul-Ramsey Medical Center, was installed on May 6 as president of the

Minnesota Surgical Society.

Dr. Chris E. Freise received the \$45,000 ASTS Sandoz Fellowship Award last May in Chicago. He will spend the next two years at the University of California, San Francisco, studying immunosuppression and liver transplantation. **Dr. Caliann T. Lum**, associate professor and director of organ transplantation services at Hennepin County Medical Center, is co-editor of the *History of the American Society of Transplant Surgeons: On the Occasion of its 20th Anniversary*. Lum was the first woman to graduate from the University surgery training program.

Dr. Jerome H. Abrams, associate professor of general surgery and associate director of surgical critical care, won this year's Wangenstein Award for Excellence in Teaching. The award recognizes faculty members who excel in resident teaching. **Dr. Stephen J. Migliori**, chief resident, was voted Resident Teacher of the Year. He was also granted the \$2,500 Earl G. Young fellowship. **Dr. Joseph R. Leventhal** received the \$1,000 Gavisar Award for Outstanding Achievement in Surgical Research. **Dr. Eric Irwin** was named Outstanding Laparoendoscopic Resident Surgeon by the Society of Laparoendoscopic Surgeons.

Therapeutic Radiology

Dr. Chang W. Song is the 1994-95 president-elect of the North American Hyperthermia Society. Song will also be the keynote speaker at the 10th Annual Meeting of the Japanese Society of the Hyperthermic Oncology, October 8-9, in Kobe, Japan. **Dr. Fatih M. Uckun**, professor and director of the biotherapy program, received a \$125,000 grant from the Parker Hughes Trust.

Drs. Seymour Levitt, Roger A. Potish, and Chung K. Lee are listed in *The Best Doctors in America, 1994-95*. The book lists 7,300 physicians in the United States and Canada chosen by their peers as the best in their fields.

Variety Club Children's Hospital-Pediatric Infectious Diseases

Medical School student **Jill S. Rinehart** received the 1994 Max Seham Student Award for accomplishment in and commitment to the social aspects of pediatrics. ■

MMF approves \$125,668 in grants

At its spring quarterly meeting, the Minnesota Medical Foundation board of trustees approved \$125,668 in research and special grants. The amount includes \$54,625 in faculty research grants, \$67,743 in special grants, and \$3,300 in student research grants.

FACULTY GRANTS include: **W. Dale Branton, Ph.D.**, Physiology, \$6,000, Labeling of potential active sites of human CD38; **Frank H. Burton, Ph.D.**, Pharmacology, \$8,000, Molecular analysis of cyclic AMO tumorigenesis; **David L. Dunn, M.D., Ph.D.**, Surgery, \$1,625, Immunotherapeutic protection during gram-negative bacterial sepsis; **Gary Dunny, Ph.D.**, Microbiology, \$7,000, Analysis of vancomycin-resistant enterococci from transplant surgery patients at the University of Minnesota Hospital; **Rod Feddersen, Ph.D.**, Laboratory Medicine and Pathology, \$5,000, Transgenic mouse models of neurodegeneration; **Gregg D. Phillips, Ph.D.**, Surgery, \$4,000, Effects of aging on skeletal muscle endothelial cell function; **Kenneth P. Roberts, Ph.D.**, Urologic Surgery, \$8,000, Regulation of Sertoli cell transferrin gene expression; **Paul Sammak, Ph.D.**, Pharmacology, \$18,000, Intracellular calcium control of golgi reorganization during wound-induced cell motility; **George J. Trachte, Ph.D.**, Pharmacology—UMD, \$4,000, Natriuretic peptide clearance receptors couple to GTP-binding proteins; and **Kendall B. Wallace, Ph.D.**, UMD, Pharmacology, \$3,500, Adriamycin-induced mitochondrial cardiomyopathy.

SPECIAL GRANTS include: **Jerome H. Abrams, M.D.**, Surgery, \$5,500, A dynamic systems approach to improved resolution of ventilation-perfusion relationships; **Kevin Fox, Ph.D.**, Physiology, \$12,000, Mechanisms of NMDA receptor regulation in the visual cortex; **David H. Ingbar, M.D.**, Medicine, \$12,500, Immunolocalization of proteins during lung injury and repair; **Clifford E. Kashtan, M.D.**, Pediatrics, \$4,743, A luminometer for shared use by members of the Departments of Pediatrics and Medicine; **John D. Lipscomb, Ph.D.**, Biochemistry, \$7,000, Acquisition of a high-speed, high-resolution graphics work station; **Horace H. Loh, Ph.D.**, Pharmacology, \$12,000, Inverted microscope: instrumentation for blastocyte injection; **Paul Sammak, Ph.D.**, Pharmacology, \$11,000, Intracellular calcium control of golgi reorganization during wound-induced cell motility; and **Dennis Wen, M.D.**,

Neurosurgery, \$3,000, Brain tumor antigen expression and efficacy of immunotoxins.

STUDENT GRANTS include: **Lucinda Marie Kolo**, \$1,500, Immunosuppression without steroids for islet allotransplantation in a canine model, and **Peter S. Kwon**, \$1,800, Nerve conduction studies in patients with anti-mag neuropathy. ■

Rowers Pull for Leukemia

More than 400 rowers from the United States and Canada competed in this year's Pull Together For Leukemia regatta. St. Paul's Lake Phalen was the setting for the event on May 28. Over the past several years, this competition has provided over \$50,000 for leukemia research at the University of Minnesota.

The regatta and the Minnesota Medical Foundation's involvement are the result of efforts by **Dr. Charlene McEvoy**, a 1986 graduate of the University of Minnesota Medical School and president of the Minnesota Rowing Club. The club started raising funds for leukemia research when one of its members, Jim Woog, died after a five-year battle with the disease. "This regatta does more than raise money for research," says McEvoy. "It raises an awareness of the need to continue research in an attempt to find a cure."

Group Health and several other organizations sponsored the event and funds were raised through mail solicitations and t-shirt sales. Plans are already underway for the 1995 Pull Together For Leukemia. ■

MMF welcomes new staff

Susan Dunlop, previously director of development for the Department of Ophthalmology, became associate director of planned giving for MMF.

Marsha Magill was named director of development for the Bob Allison Ataxia Research Center and the Department of Neurology. She was previously involved in development at the University of St. Thomas. ■



MMF presents scholarships and awards

Throughout the year, the Minnesota Medical Foundation sponsors a number of awards to honor faculty and students of the University of Minnesota Medical Schools. MMF presented the following scholarships and awards last May:

Maxine Nelson-Alpha Epsilon Iota Foundation Awards

*Robin J. Baker
Jacalyn A. Dahl
Jennifer L. Merchant*
Recognize senior women medical students who best exemplify excellence in clinical performance, community service, scholarship, and leadership.

American Red Cross Transfusion Sciences Research Award

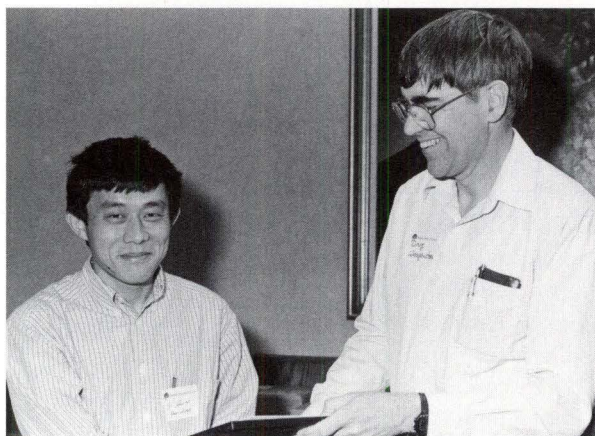
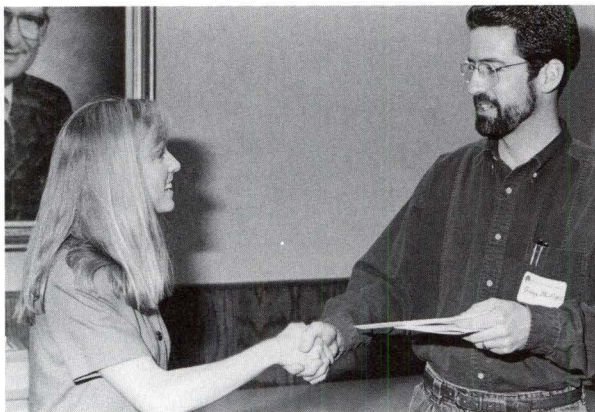
Regan S. Fulton
Recognizes exceptional research in transfusion medicine.

Wallace D. Armstrong Memorial Award

Susan J. Sickler
Memorializes Dr. Armstrong, former chair of the Department of Biochemistry, by recognizing outstanding achievement in first-year biochemistry.

Thomas P. Cook Scholarship

Rekiyatu O. Lawal
Honors Thomas Cook, long-time executive director of the Hennepin County Medical Association Foundation, and recognizes academic excellence, leadership, and financial need.



Top: Elizabeth J. Mosby accepts the Dr. Luther F. Davis Memorial Scholarship from Dr. Gregg Phillips, grandson of Dr. Davis. Middle: Janine E. Rose and Steven L. Manning, recipients of the Roger Dell Memorial Scholarships. Bottom: Zhou Yi accepts the Allan Hemingway Endowed Scholarship from Dr. Douglas Wangensteen, professor of physiology.

Daniel A. Coyle Memorial Award

Lynne M. Gibeau
Honors an outstanding woman medical student in obstetrics and gynecology.

Dr. Luther Forest Davis Memorial Scholarship

Elizabeth J. Mosby
Recognizes outstanding clinical skills by a senior medical student specializing in family practice.

Roger Dell Memorial Scholarships

*Steven L. Manning
Janine E. Rose*
Established by a gift from the Roger L. and Agnes C. Dell Charitable Trust.

Allan Hemingway Endowed Scholarship

Zhou Yi
Established in memory of Dr. Allan Hemingway, long-time member of the Department of Physiology.

Richard C. Horns Memorial Award

Kerry M. Kallas
Memorializes Dr. Horns, former professor of ophthalmology, by recognizing a senior medical student who has shown outstanding clinical promise.

Lifson/Johnson Memorial Award

Ethan P. Carter
Memorializes Drs. Nathan Lifson and John A. Johnson by recognizing

ing outstanding teaching or research by a graduate student in the Department of Physiology.

J. Thomas

Livermore Award

Debra L. Murray

Recognizes outstanding original research in hematology.

Medical Student Achievement Awards

Keyvan Abtin

Leslie Masters Cummings

Jacalyn A. Dahl

John J.W. Fangman

Valarie J. Heiling

Amal Murarka

Keith E. Wyche

Minnesota Medical Foundation-funded awards which recognize graduating seniors who have excelled in student leadership, community service, academics, and research.

Metropolitan-Mount Sinai Medical Student Awards

Connie K. Wolf

Keith E. Wyche

Established by the medical staff of the former Metropolitan-Mount Sinai Hospital as a remembrance and recognition of the contributions of that organization and its predecessors, the second- and fourth-year awards recognize students who show promise of becoming superior physicians or clinicians.



Top: Kerry M. Kallas, recipient of the Richard C. Horns Memorial Award with Mrs. Richard Horns and Dr. Dorothy Horns. Second: Ethan P. Carter receives the Lifson/Johnson Memorial Award from Dr. Douglas Wangenstein. Third: Connie K. Wolf and Keith E. Wyche receive the Metropolitan-Mount Sinai Medical Student Awards from MMF President David Teslow. Bottom: Ravindra Uppaluri receives the Zagaria Research Award from David Teslow.

Mary Bizal Peterson Memorial Award

Kimberly Ann Aho

Recognizes a meritorious student embarking on a first-year residency in neurology at the University of Minnesota Medical School.

Undergraduate Research Awards

Charles P. Heise

Stacene R. Maroushek

Minnesota Medical Foundation-funded awards which recognize the most meritorious research papers written by graduating seniors.

Cecil J. Watson Award

Mark L. Saxton

Established in honor of Dr. Watson, Regents Professor of Medicine, the award recognizes outstanding research by residents in clinical medicine.

George W. Williams Scholarship

Trudie A. Reid

Established in memory of Dr. Williams, former professor of psychiatry and assistant dean of student affairs.

Zagaria Research Award

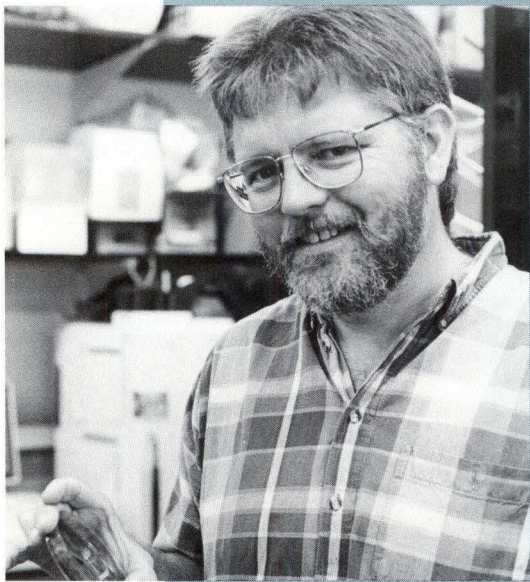
Ravindra Uppaluri

Established to recognize original research in cardiology and oncology by an undergraduate. ■

MMF Grant Recipient: Gary Dunny, Ph.D.

People have come to rely on antibiotics as an almost magic cure. A dose of penicillin can take care of strep throat — a treatment often taken for granted. But, some bacteria are becoming resistant to antibiotics.

In some cases, certain strains threaten to make many current antibiotics useless. This problem is particularly serious in bacterial infections some patients acquire while hospitalized. One resistant bacterium, enterococcus, has been responsible for outbreaks of infection in a transplant surgery unit at the University of Minnesota Hospital and at hospitals nationwide.



Gary Dunny, Ph.D.

“It is essential that this outbreak be carefully monitored and documented so it can be controlled and so future outbreaks can be prevented,” says Gary Dunny, Ph.D., Department of Microbiology. He is studying the vancomycin-resistant enterococci from transplant surgery patients at the University of Minnesota Hospital. Dunny was one of 10 faculty members to receive a faculty research grant from the Minnesota Medical Foundation. In all, the MMF board approved \$125,668 in faculty and student grants (see page 25). The \$7,000 grant provided seed money to initiate the molecular genetic analysis of vancomycin resistance in these bacteria.

Enterococcus is normally found among the bacteria people carry. In a healthy person it is not particularly harmful. However, the organism tends to be resistant to many antibiotics. “In a person whose normal immune system is compromised, a transplant surgery patient or cancer patient for example, it can cause serious infections,” explains Dunny.

“Until recently, vancomycin has been the anti-

biotic of choice for treating enterococcal infection. Now, various strains of enterococcus are resistant to vancomycin. This resistance combined with the bacterium’s general resistance to other common antibiotics means there is virtually nothing available to treat some infected patients.”

Dunny and his colleagues aim to learn more about the strains of vancomycin-resistant enterococcus that they are seeing in patients. “One major objective of this study is to characterize the strains of bacteria in this group of infections and to find out if they are the same as those found by other researchers,” he says. This information could help answer some questions about reducing or controlling spread of the organisms in hospitals.

The bacteria may be developing and spreading in one of several ways. According to Dunny, preliminary results from this study and from other recently published studies indicate that a single strain can be transmitted from patient to patient. “If this is the case, the way patients are handled to prevent spread of the organism from patient to patient — the isolation procedures, handwashings, gloves, etc. — is very important,” he says.

Another possibility is that everybody already carries vancomycin-resistant enterococci normally and it simply isn’t known until they become sick. “So far that doesn’t appear to be the case,” says Dunny. “It looks like the appearance of the resistant gene in healthy people who aren’t hospitalized isn’t that high.”

Extra caution in handling patients when conditions may expose them to the organisms may be a way to effectively control spread of the bacteria. “There is already some indication in the group of infections we’re working with that the incidence of infection has recently been reduced, probably in part due to measures the infection control group has established at the hospital,” Dunny says. “In the short term, it may also be important to use antibiotics very carefully, particularly vancomycin, to reduce the pressure on the bacteria to become resistant.”

Related long-term research could include studying why these bacteria are so resistant to antibiotics in general. Dunny is interested in how the organism transfers genes and how they evolve genetically. Once it is understood how the resistant bacteria develop and spread, it’s possible that new drugs could be developed. “Potentially, drugs could be designed that are more specifically targeted to a certain bacterium,” he says.

— Jodi Ohlsen Read

New provost to speak at MMF annual meeting

Dr. *William R. Brody* will be the featured speaker at the Minnesota Medical Foundation's Annual Meeting, October 25. Formerly director of radiology and professor of biomedical engineering and electrical and computer engineering at Johns Hopkins University, Brody is now provost of the University of Minnesota Academic Health Center.

As provost, he is responsible for more than 14,600 faculty and staff and more than 5,000 students seeking graduate medical education or degrees in medicine, dentistry, pharmacy, public health, nursing, allied health professions, and veterinary medicine. Brody also has ultimate accountability for the newly created University of Minnesota Health System. He is expected to take the

lead in shaping the University's role in state and national health reform.

Brody graduated from Stanford University Medical School in 1970 and holds bachelor's and master's degrees in electrical engineering from the Massachusetts Institute of Technology and a doctorate in electrical engineering from Stanford. He founded his own medical company in 1984 and served as its president for three years. From 1987 until coming to the University this year, he was a faculty member at Johns Hopkins University.

For more information about the Minnesota Medical Foundation Annual Meeting, call 612-625-1440 or 1-800-922-1MMF. ■

UMD awards presented

Awards of excellence are presented to faculty and students of the University of Minnesota, Duluth (UMD) School of Medicine at the end of each school year. This year, **Dr. Arlen Severson** received the Year One Basic Science Teacher of the Year Award and **Dr.**

George Trachte was the winner of the Year Two Basic Science Teacher of the Year Award. **Dr. Paul Severson** was awarded the Clinical Science Teacher of the Year Award.

Student **Julie Heimbach** received the Herbert G. Lampson Award, given to the outstanding female sophomore medical student. The award is presented in memory of Dr. Lampson, a former St. Louis County health officer who was one of the first physicians to effectively study the incidence and epidemiology of tuberculosis in Minnesota. **Robert McDonald** was the winner of the Laird W. and Mary C. Lampson Award, given to the outstanding male sophomore medical student in memory of Laird and Mary Lampson. **Marilou Johnson** received the Memorial Award, presented to the medical student who best exemplifies care and concern for others. ■

Faculty receive Herz Awards

Four Herz Faculty Teaching Development Awards were given to faculty members this year. **Dr. Rene P. du Cret**, associate professor of radiology, received the award to pursue work on the role of radiology in medical education. **Dr. Richard M. Eisenberg**, professor and head of pharmacology at the University of Minnesota, Duluth, received support for his development of multimedia presentations in neuropharmacology. **Drs. Ilene Harris, Robert McCollister, Jack Miller**, and **Dianna Randall, Ellen Nagle**, and **Phillip Kofron, M.P.H.**, will be working on a project using computers to enhance student learning. **Dr. Marianne Westerheim**, assistant professor, obstetrics and gynecology, will be developing a project to revise the obstetrics and gynecology medical student curriculum.

The Herz Faculty Teaching Development Awards, established by the late Malvin E. Herz and his wife, Josephine, are presented to encourage University of Minnesota Medical Schools faculty to pursue projects which will improve their teaching methods and skills. The Honors and Awards Committee of the Minnesota Medical Foundation selected the recipients from proposals submitted by the faculty. Preference is given to faculty members who have demonstrated interest in teaching, leadership, creativity, and innovation in education. ■



Dr. William R. Brody



UNDER OUR UMBRELLA

Alpha Epsilon Iota Foundation

The Alpha Epsilon Iota Foundation (AEI) board of directors selected Dr. Patricia Walker as Minnesota Woman Physician of the Year. Each year, AEI awards this honor to a woman who has made a significant contribution to the Minnesota medical community and the field of medical science. In recognition of these accomplishments, \$1,000 is donated in the winner's name to her charity of choice.

This year's recipient, Dr. Walker, is lead physician at the International Clinic at Ramsey Clinic in St. Paul. A 1981 graduate of Mayo Medical School, her specialty is internal medicine. She has been a treating physician, medical director, and advocate in women's health, refugees, immigrants, and victims of torture. Her extensive work in refugee advocacy includes publishing articles, conducting lectures, and making radio and television appearances regarding refugee issues and the ongoing crisis in Southeast Asia. She serves on many organizations including the Refugee Metro Health Task Force, the Minnesota Refugee Consortium, and the Center for Victims of Torture. The Alpha Epsilon Iota Foundation is a non-profit organization formed to aid women in medicine. For more information, please call 1-800-922-1MMF. ■



L-R, Back row: Kyle Allison; Gordy Farrington, Cub Foods; Mark Allison; Phil Mattice, Midwest Coca-Cola Bottling; Betty Allison. Front row: Zachary Allison, Bob Allison.

Bob Allison Ataxia Research Center

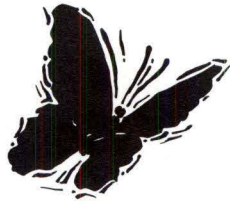


Cub Foods and Midwest Coca-Cola presented a check to the Bob Allison Ataxia Research Center at the Twins baseball game July 5. Over 100 friends and family came together to honor Bob Allison, former Minnesota Twin, and to raise money to help fight ataxia. Ataxia is the name given to a group of diseases characterized by slurred speech, unsteady gait, poor hand control, and other uncoordinated movements.

For more information, contact Marsha Magill, 612-625-8672 or 1-800-922-1MMF. ■

Children's Cancer Research Fund

The 14th Annual Dawn of a Dream Benefit will be held January 14, 1995, at the Convention Center in Minneapolis. This year's theme will be Denim and Diamonds with entertainment by country music star Clint Black.



With four albums out (including his latest, "No Time To Kill"), Clint Black is a leader in country music. He was the Country Music Association's Horizon Award winner in 1989 and by 1990, he was voted the Top Male Vocalist in country music. A sit-down dinner will accompany the concert.

The evening will include a silent auction of items donated by local businesses and individuals, and will end with a country western dance. For more information, call 612-929-5535 or 1-800-922-1MMF. ■

International Hearing Foundation

Support groups for Meniere's and Tinnitus diseases meet the first Saturday of each month at the Riverside Park Plaza Building in Minneapolis.



The International Hearing Foundation (IHF) is sponsoring a medical mission to treat ear diseases in Senegal, Africa. For the past three years, a team of ear-nose-throat (ENT) specialists has travelled to Senegal to treat patients and to train Senegalese ENT physicians. Funds from the second annual Celebrity Golf Tournament, held July 13, will be used for the project. Matt Blair, a former all-pro Viking linebacker, headed the fundraiser, held at Dahlgren Golf Course in Chaska, Minnesota.

IHF is also involved in a program that provides hearing aids to needy children. If a child who needs a hearing aid cannot afford it but does not qualify for financial assistance, IHF may supply the hearing aid.

Every other year, IHF sponsors a \$20,000 research grant given to an individual who has contributed extraordinarily to clinical and basic research involving disorders of the auditory/vesibular system. The most recent award, in October 1993, was presented to Dr. Harold Schuknecht at the National Academy of Otolaryngology meeting.

For more information, please contact Treva Paparella at 612-339-2120. ■

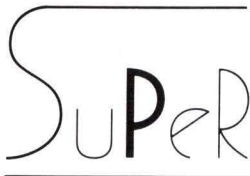
SUPER

The board of directors for SUPER (Supporters United for Parkinson's Education and Research) reports that \$82,905 was raised during fiscal year

1993-94 in support of Parkinson's disease research in the Department of Neurosurgery.

The 1994-95 officers for SUPER are Dale Bahn, president; Noelann Brown, vice president; Mary Steele, treasurer; and Ann Johnson, secretary.

The first annual The Super Dream is scheduled for September 18 and will feature a benefit performance of *Forever Plaid*. Beginning at 2:00 p.m. at the Hey City Stage in Minneapolis, the benefit will raise money for Parkinson's research. For information about tickets, contact the Department of Neurosurgery at 612-625-0972 or 1-800-922-1MMF. ■



provide seed money to young faculty members during the early years of their academic careers.

For more information, please contact Mark Desmond, 612-625-1148 or 1-800-922-1MMF. ■

University of Minnesota Cancer Center

In June, the Cancer Center hosted tours of the Masonic Cancer Research Building, now under construction, the Patient Learning Center, made possible by an anonymous donor in 1987, and research laboratories. Tours can be arranged for donors interested in seeing how their generosity enables the Cancer Center to achieve its mission of patient care, education, and research. Please call Barbara Zimmerman, associate director of development, at 612-625-3650 to schedule a tour at your convenience.

Recruitment is underway for the University of Minnesota Cancer Center Community Advisory Board and the UCAN Fund Board. These volunteer boards will enhance the Cancer Center's visibility in the community.

Construction of the Masonic Cancer Research Building is continuing on schedule with occupancy scheduled for early 1996. The new building is being erected on top of the existing Dwan Variety Club Cardiovascular Research Center and will contain space for over 30 faculty research teams equipped with laboratories, seminar space, and offices.

For more information call David Madson, 612-625-4441 or 1-800-922-1MMF. ■



University Children's Foundation

The Catch A Rising Star benefit was held August 21 at the Lafayette Club overlooking Lake Minnetonka. A 1994 Ford Mustang was raffled off at the event. Funds raised from the event will be used to support the University Children's Foundation (UCF) scholar and to celebrate the UCF fifth anniversary.

At the Pediatrics' Annual Education, Research, and Service Recognition banquet, the UCF Scholar Award was presented to Dr. David N. Cornfield, assistant professor, Division of Pulmonology and Critical Care Medicine. The award supports the research project of a promising research scholar in the Department of Pediatrics.

Cornfield will be examining the role of ion channels that allow calcium and potassium to enter and exit cells in the fetus and newborn.

The Jundt Research Award, renamed the Alexander Charles Jundt Research Award, was also presented at the recognition banquet. It supports the research project proposed by a member of the Department of Pediatrics that is most likely to generate future National Institutes of Health funding. Dr. Paul Orchard, assistant professor, Division of Pediatric Bone Marrow Transplantation, received the award for his cancer and immune system research. Also given to Dr. Orchard was the 1994 Irvine McQuarrie Research Scholar Award. The McQuarrie Scholar Fund was established to honor Dr. McQuarrie, head of the Department of Pediatrics from 1930 to 1955, and to



Variety Club Association

Variety Club Association will hold its 30th annual Toyland Auction on Saturday, November 5, at the Radisson Hotel Metrodome in Minneapolis. The evening will feature a reception, silent and live auctions, and dinner. Minnesota Twin Shane Mack and his wife, Darleena, will host the event. Proceeds will support patient and family programs at Variety Club Children's Clinic, a University of Minnesota clinic that serves low-income families in the Phillips neighborhood of Minneapolis.

Through the creation of the Mack Variety Pack (MVP) program, children who use Variety Club Children's Hospital and Clinic and their families are able to attend Minnesota Twins baseball games.





Left to right: Donald Beeler, president and CEO of Snyder Drug, Inc; former patients Jim Fox and Mike Hoffman; and Steve Payne, of Walsh-Dunsmore, at the charity golf tournament.

Darleena and Shane Mack generously donated 1,000 home game tickets to create the MVP program.

Continuing its tradition of supporting heart research, Variety Club

raised more than \$100,000 for the Variety Club Heart and Research Center.

More than \$50,000 was raised for Variety Club through the Steve Payne/Snyder Golf Tournament held June 6. Proceeds will support production of the hospital closed-circuit children's television program, Kids Club TV.

Variety Club celebrated its 60th anniversary on May 15 with an event hosted in Dolly Fiterman's home. Past presidents of Variety Club were recognized for their valuable contributions.

The Hannah Bauer Patient Assistance Fund was created with a gift of \$200,000. When experimental treatment for Hannah Bauer's rare genetic metabolic disorder was denied by her family's insurance, community members raised money for her care. After Hannah passed away following a four-year struggle, the remaining money was given to Variety Club to establish the Hannah Bauer Fund. The fund was created to give other children access to experimental medical care that is not covered by insurance or is beyond the family's financial means.

For more information about Variety Club Association, call 612-624-6900 or 1-800-922-1MMF. ■



Vision Foundation

Ophthalmology residents Gary Schwartz and Gary Weiner received the Friedman Resident Research Awards for their eye research projects. Dr. Harry Friedman established the award in 1992 to encourage ophthalmology residents in

their research activities.

A reception for the Wendland Family was held in June to commemorate the portrait of Dr. John P. Wendland, which is displayed in the Department of Ophthalmology Conference Room. Family members, friends, classmates, and colleagues shared memories of the late Dr. Wendland, who was interim chair of the Department of Ophthalmology in 1957.

On Saturday, October 15, the Seventh Annual Thanksgiving for Vision celebration will be held at the Radisson Hotel Metrodome in Minneapolis. Hosted by the University of Minnesota Lions Eye Bank and the Vision Foundation, the event celebrates results of Lions' and other contributors' efforts to restore vision and improve the quality of life for those who cannot see. Patients and their families and donors are invited to attend.

Betty Jane Walen, volunteer administrative assistant for the Minnesota Lions Eye Bank at the Department of Ophthalmology, was given the Gift of Sight Award at the Eye Bank Associations of America's annual June meeting. The award is presented to a volunteer who has performed above and beyond the call of duty in support of eye and corneal donation. Walen volunteered 6,500 hours in the nine years that she has been at the Minnesota Lions Eye Bank.

Vision Foundation volunteer opportunities continue to grow. To find out more about becoming a committee member, office volunteer, or to share special skills, please contact Sue Dimler at 612-625-8992. For more information about Vision Foundation programs, call 612-625-8992 or 1-800-922-1MMF. ■

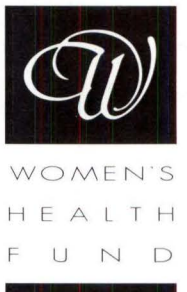
Women's Health Fund

The Women's Health Fund held two successful special events this past spring. About 120 people attended A Mother's Day Cabaret on May 8, held at the Acme Comedy Company. The event featured comedian Susan Vass, emcees Steve Edleman and Sharon Anderson, and a dinner show package and silent auction. Funds raised totalled \$13,000 and benefitted Drs. Linda Carson's and Linda Hammer Burns' quality-of-life research project for women with reproductive cancers.

The third annual Celebration of Life event was held June 11, recognizing the Ob/Gyn Department's many women cancer survivors. Approximately 100 patients, friends, family, and faculty attended the luncheon program, which featured patient testimonials and a performance by comedian and cancer survivor Scott Burton. The event raised over \$1,000 for the Women's Cancer Center Research Fund.

Dr. Jeffrey Fowler received a contribution of \$6,000 to support his laparoscopic surgery research. This gift was received from Charles and Helen Barber of Glens Falls, New York.

For more information, please call 612-626-2612 or 1-800-922-1MMF. ■



President's Report

It is my pleasure, as president of the Medical Alumni Society, to greet you. The Medical Alumni Society represents nearly 10,000 medical graduates of the University of Minnesota Medical Schools, as well as those who completed residency training programs at the University. It is our mission to encourage strong relationships among alumni and between alumni and the Medical Schools, as well as to enhance the student experience.

To accomplish this mission, we will be promoting a series of alumni and friends receptions throughout the country and state. These receptions provide an opportunity for alumni and friends to socialize and to find out what's happening at their Medical Schools. We hope to visit as many as ten different cities throughout the country. I hope you will take the opportunity to attend one of these events.

Alumni have the opportunity to be involved with students through the Residents Away From Home and the Mentoring programs. Consider hosting a student who is visiting a resident site or spending time with a first-year medical student. Finally, we hope to enhance the student experience by improving the student lounge/study room, the Adytum. The Adytum was opened by medical alumni in 1964 and now needs renovation. You will hear more about this in coming months.

Our Medical Schools are at a critical point in their history, with the changing face of academic health centers as well as changes in leadership. With our support they will remain the finest medical schools in the country. I am confident that we can count on you to support your Medical Schools and University, not only financially, but also with your time.

Sincerely,



Dorothy J. Horns, M.D. '76
President, Medical Alumni Society

Boston/AAMC Alumni & Friends Reception

All Boston area alumni and friends of the University of Minnesota Medical Schools are invited to attend a reception held in conjunction with the Association of American Medical Schools Annual Meeting. The hors d'oeuvres reception will be on Sunday, October 30, at Boston's Westin Hotel from 6:00 - 8:00 p.m.

The reception provides a great opportunity to visit

with fellow alumni, faculty, and staff from the University of Minnesota Medical Schools. For more information call 612-625-8676 or 1-800-922-1663. ■



Duluth alumni gather

A warm summer evening was the perfect setting for the alumni and friends reception in Duluth on July 21. Dr. Joseph and Frances Leek opened their beautiful home for this event, which provided an opportunity to hear about the many Minnesota Medical Foundation programs. David Teslow, MMF president, thanked the alumni and friends for making the increase in scholarships and research grants possible.

Dr. Ron Franks, dean of the University of Minnesota, Duluth, School of Medicine, spoke of the many successes they have enjoyed over the last year. UMD is a role model for programs that emphasize primary care in rural areas and has been recognized by First Lady Hillary Clinton. ■

Half-Century Club presents program

The Half-Century Club will hold its fall program, The Best of the Wangenstein Historical Library, on Wednesday, September 21. Elaine Challacombe, curator, will present the program at 11:00 a.m. on the 5th floor of Diehl Hall (the Bio-Medical Library Building) at the University of Minnesota, Minneapolis campus.

Lunch will be served immediately after the presentation. Plenty of time will be available following the program to visit the Wangenstein Library. All pre-1945 alumni and their guests are invited to attend. The cost for this event is \$12 per person and includes lunch and parking. For more information call 612-625-8676 or 1-800-922-1663. ■

CLASS NOTES

1957

Dr. Florence A.

Toussaint, Las Vegas, is in solo private practice of psychiatry and serves as clinical assistant professor at the University of Nevada Medical School. The National Alliance for the Mentally Ill awarded her the Exemplary Psychiatrist of 1994 Award in recognition of her professional treatment and personal caring in her work with mentally ill patients.

1966

Dr. Norman Solberg,

Minneapolis, spent the month of May teaching gynecological surgery in Madagascar.

1969

Dr. Bernard Pollara,

Tampa, Florida, resigned from the Albany Medical College on January 1 after 24 years as professor and 15 years as chair of pediatrics. He has accepted an appointment as the John E. and Aliese Price Professor of Pediatrics at the University of South Florida in Tampa.

1970

Dr. Barbara S.

Schneidman, Evanston, Illinois, has joined the American Board of Medical Specialties (ABMS) — the umbrella organization involved with the certification of physician specialists in the United States — as the associate vice president.

1976

Dr. Gordon L.

Alexander, Jr., Eden Prairie, Minnesota, was named senior vice president of medical affairs for Fairview Health System in Minneapolis. He is clinical assistant professor at the University of Minnesota and is a diplomate in the American Board of Obstetrics and Gynecology and a fellow in the American College of Obstetrics and Gynecology.

Dr. Desmond K.

Runyan, Chapel Hill, North Carolina, is an associate professor of social medicine and pediatrics and director of the preventive medicine residency at the University of North Carolina. He serves as director of the North Carolina Child Medical Evaluation Program, which provides local child abuse expertise to all 100 North Carolina counties.

1978

Dr. David Edelstein,

Houston, Texas, has joined the MacGregor Medical Association. He is also on staff at Hermann Hospital and on the teaching staff at the University of Texas Health Science Center in Houston.

1979

Dr. Robert Bösl, Glenwood, Minnesota, former state president of Minnesota Family Physicians, was selected as Minnesota Family Physician of the Year.

1981

Dr. Donald R.

Lettmann, Sitka, Alaska, was elected president of the Alaska State Medical Association. He is a member of the clinical faculty at the University of Washington Medical School, Department of Family Practice, and the University of Alaska Southeast/University of Washington Medex P.A. program.

1982

Dr. William D. Morin,

Eau Claire, Wisconsin, is currently director of Orthopaedic Sports Medicine Service at the Midelfort Clinic. From 1984 to 1986 he was a U.S. Naval flight surgeon and from 1986 to 1990 he served his orthopaedic surgery residency in San Diego. He was chair of the Department of Orthopaedic Surgery in the naval hospital at Guantanamo Bay, Cuba, and then completed a fellowship in orthopaedic sports medicine at the Steadman Hawkins Clinic in Vail, Colorado. Most recently, he served as director of sports medicine service in the Department of Orthopaedic Surgery at the Naval Hospital in San Diego.

1988

Dr. Jonathan G.

McLaughlin, Mason City, Iowa, joined the Mason City Clinic after completing a residency in general surgery and a fellowship in surgical critical care.

1989

Dr. Frank Carlson

completed an internship at Bethesda Naval Hospital in 1990 and then participated in Desert Shield/Desert Storm as a medical officer aboard the USS Nassau. He will graduate from internal medicine residency at the naval hospital in Oakland, California, and will be stationed as a general internist at the naval hospital in Naples, Italy.

1990

Dr. Timothy J. Probst,

Andover, Minnesota, will be joining Comprehensive Medical Care in Ramsey, Minnesota.

Dr. Kristi M. Schoeld,

Seattle, Washington, finished her family practice residency in Marinez, California, in 1993. She will be moving to Ganado, Arizona, to work for the Navajo Nation Health Foundation in October.

1993

Dr. Karen Joy Marienau

completed an internal medicine internship year at Balboa Naval Hospital in San Diego, California. During July and August she attended a six-week tropical medicine course in Puerto Rico and the Dominican Republic. In January, she will begin a six-month undersea medicine training program. She will continue to work in this area for a minimum of two years. ■

IN MEMORIAM

IRVING C. BERNSTEIN, M.D., Class of 1942, died June 22 at the age of 76. Dr. Bernstein, a long-time Minneapolis psychiatrist and clinical professor at the University of Minnesota, taught psychiatry and obstetrics and gynecology for 40 years.

After serving as an Army physician in France during World War II, he trained in obstetrics and gynecology. This training included a psychiatry residency at the University of Colorado, where he later studied psychiatry.

Dr. Bernstein opened a psychiatry practice in Minneapolis and eventually shared an office with his wife, who is a child psychiatrist. He helped develop psychiatric programs in local hospitals and establish public community psychiatric services.

For 40 years, he was a clinical professor of psychiatry and obstetrics and gynecology. He was head of the clinical staff and a consultant for the University of Minnesota Medical School's Department of Obstetrics and Gynecology. Dr. Bernstein was also a clinical professor at the University of California, San Diego.

He received the Harold S. Diehl Award from the Medical Alumni Society. He is survived by his wife, Dr. Dorothy Bernstein, and three children, Drs. Gail Bernstein, Mark Bernstein, and Paul Bernstein. Memorials to the Minnesota Medical Foundation are suggested.

JAMES H. CROWLEY, M.D., Class of 1944, died May 24 at the age of 83. Dr. Crowley, of St. Paul, Minnesota, specialized in anesthesiology. He is survived by six daughters. Memorials to the University Children's Foundation, Minnesota Medical Foundation, are suggested.

PAUL FINLEY, M.D., Class of 1952, died March 30 at age 67 in Nogales, Arizona. Born in St. Paul, Dr. Finley was a fellow at the National Institutes of Health and studied at the Royal Postgraduate Medical School in London. He worked at Fairview Hospitals in the Twin Cities for 10 years and served as director of clinical laboratories. Later he worked as a professor of pathology and chief of clinical chemistry at the University of Arizona Hospital in Tucson. He is survived by his wife, Charlotte, two sons, and two daughters.

HERSCHEL J. KAUFMAN, M.D., Class of 1934, died June 22 at the age of 82. A Minneapolis native, Dr. Kaufman practiced pediatrics after graduating from the University of Minnesota. He opened a practice in Pine River, Minnesota, and later started a new practice in Port Arthur, Texas.

Dr. Kaufman was in the Army Air Corps during World War II. After the war, he came back to Minnesota

and opened another pediatric practice. In the 1960s, he returned to the University to study psychiatry and also studied at the University of Cincinnati. He then moved to Santa Barbara, California, and became one of the first pediatric psychiatrists in the area. He is survived by his wife, Minnette, and a son and two daughters.

WALTER KRAFFT, M.D., Class of 1951, died July 1 at age 66. Dr. Krafft was a family practice physician for 40 years in Minneapolis and Edina. He served in the Army Medical Corps from 1952 to 1955 and later joined the staff at Fairview Southdale and at Methodist Hospital. In addition, he was a physician with the Edina Family Physicians. He is survived by his wife, Joan, three sons, and a daughter.

DOUGLAS T. LINDSAY, M.D., Class of 1944, died May 12 at the age of 74. Dr. Lindsay was a retired orthopaedic surgeon and lived in Fargo, North Dakota. He is survived by his wife, Nelda, a son and four daughters.

JOHN T. LITCHFIELD, M.D., Class of 1937, died June 2 at the age of 79. Dr. Litchfield was active in medical research for more than 40 years. He was involved in research and teaching in the Department of Pharmacology at the University of Minnesota Medical School and in the Department of Pharmacology and Experimental Therapeutics at Johns Hopkins Medical School. He retired as director of research at the Lederle Laboratories Division of American Cyanamid Corp. in 1969 and moved to Northumberland County, Virginia. Dr. Litchfield was a fellow in the New York Academy of Sciences. He is survived by his wife, Anne, a son and a daughter.

NORA WINTHER LUETHI, M.D., Class of 1926, died May 31 at the age of 90 in Arlington, Ohio. Dr. Luethi was the first woman chief of staff at what is now Fairview Riverside Medical Center in Minneapolis. In 1928, she began an obstetrics and gynecology practice in Minneapolis and Edina. When she retired, she and her husband, Charles, moved to Columbus where she became an active volunteer and board member for the Ohio State University's cancer clinic. Dr. Luethi also volunteered with the Children's Hospital in Columbus.

She was a fellow of the American College of Surgeons and the American College of Obstetrics and Gynecology and a diplomate of the American Board of Obstetrics and Gynecology. She is survived by four stepdaughters.

LLOYD STANLEY NELSON, M.D., Class of 1941, died March 13 at the age of 80 in Sun City, Arizona. Born in Hector, Minnesota, Dr. Nelson served in the armed services and practiced medicine in Minneapolis from 1946 to 1979. ■

THANKS FOR ASKING



Gary G. Hargroves

Question: What is a **Wealth Replacement Trust**?

At its heart, it means the **wealth** that individuals plan to give to their children from their estate is given to charity, and then that wealth is **replaced** for the children by using an irrevocable insurance trust, a **wealth replacement trust**.

The concept is significant because, for some families, by using the wealth replacement trust, children may receive considerably more than originally planned, a generous charitable gift is made, and substantial tax savings are realized.

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A person places \$100,000 into a charitable trust. If this \$100,000 is left to the children as part of the estate, it would be subject to a 50 percent estate tax that would reduce the children's gift to \$50,000.

Next, using the **wealth replacement trust**, the person purchases \$100,000 of life insurance and places this insurance into an irrevocable insurance trust.

The person pays the insurance premium by taking advantage of the Annual Exclusion, where \$10,000 per year can be given to another individual without any tax liability to either party.

The result is, the person receives a lifetime income from the trust and a charitable deduction at the time the charitable trust is established. At the person's death, the children receive the full \$100,000 and the charity receives a generous gift. If you have questions, I would be pleased to visit with you about the concept. Please phone me at (612) 625-5463 or 1-800-922-1663 or return the coupon below.

Dear Gary,

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My phone number is: _____ . The best time to call me is: _____ .

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MB-F94

THANKS FOR GIVING

Dr. Wayne Schrader

by Jean Murray

When Dr. Wayne Schrader was in medical school, research grants were readily available for pathology residents. Now few are available, according to Schrader, who is particularly interested in clinical research opportunities for laboratory medicine/pathology residents at the University of Minnesota Medical School.

Consequently, he has established the Wayne H. Schrader, M.D. Endowed Pathology and Laboratory Medicine Award Fund. The awards will be used for start-up grants for clinical research by residents in the Department of Laboratory Medicine and Pathology “to be able to conduct clinical research in clinical laboratory problems,” says Schrader.

A 1958 graduate of the Medical School, Schrader was on staff at Ramsey Hospital in St. Paul (now Ramsey Medical Center) during the late '60s and early '70s, and was part of a group that started the pathology residency program at Ramsey. He credits his two mentors at the University, former department heads Jim Dawson and Ellis Benson, as the motivation behind his interest in clinical pathology research.

For the past 22 years, Schrader has been associated with Derrick and Associates Pathology, P.A. in Orlando, Florida. The group has grown from five to 22 pathologists, and Schrader is a senior partner. It is the largest pathology group in Florida, and Schrader and his colleagues have been involved in providing pathology services for a number of Florida health centers.

Schrader decided early on — while milking cows on winter mornings at his family's Northfield, Minnesota, farm — that he would like to live in a warmer climate. In Florida, he has been able to pursue his hobbies of boating, golf, and flying year around.

Schrader has also been active in a number of professional organizations, serving as a trustee of the American Pathology Foundation and president of the Florida



Dr. Wayne Schrader

Society of Pathologists, in addition to memberships and committee appointments in the American Society of Clinical Pathologists, the College of American Pathologists, the Florida Medical Association, and the Orange County Medical Society.

Schrader will be funding his gift to the Minnesota Medical Foundation through a Wealth Replacement Trust, which he describes as a winning situation for everyone. Schrader wins in two ways: he receives a current charitable contribution deduction, and at retirement will receive a significant income from the trust; the Department of Pathology wins because of the substantial future charitable gift; and Schrader's children win because the gift will be replaced by insurance that is not subject to income or estate taxes.

“It's a way to give that works well for us now,” says Schrader, “and also will enable future pathology residents to conduct clinical research. That's important to me.” ■



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at the Radisson Hotel Metrodome/U of M
615 Washington Avenue SE
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Featured Speaker:
Dr. William R. Brody, Provost
University of Minnesota
Academic Health Center

6:00 p.m. Reception
7:00 p.m. Dinner and Program

For more information, call 612-625-1440
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