

UNIVERSITY OF MINNESOTA MEDICAL SCHOOLS

Medical Bulletin

A PUBLICATION OF THE MINNESOTA MEDICAL FOUNDATION • FALL 2000

SPECIAL

CAMPAIGN



MINNESOTA

ISSUE

A D E F I N I N G M O M E N T

MINNESOTA
MEDICAL
FOUNDATION

at the University of Minnesota

THE MISSION OF THE MINNESOTA MEDICAL FOUNDATION IS TO IMPROVE THE QUALITY OF LIFE FOR THE PEOPLE OF MINNESOTA, THE NATION, AND THE WORLD BY SUPPORTING THE ADVANCEMENT OF HEALTH-RELATED EDUCATION, RESEARCH, AND SERVICE AT THE UNIVERSITY OF MINNESOTA.



DEAR FRIENDS,

We hope this issue of the *Medical Bulletin*, focusing on Campaign Minnesota, will give you a sense of the breadth of activity that takes place every day at the University of Minnesota Medical Schools. We also hope you'll be able to sense the promise that lies ahead and the urgency of our work.

We will show you the faces of those who benefit from this momentous endeavor – the patients whose lives are changed, the researchers who have the support needed to make breakthrough discoveries, and the medical students who are able to complete their education and become tomorrow's doctors.

And we will show you the faces of generous benefactors and volunteers, who give of their time, talent, and resources. These are the individuals who will make Campaign Minnesota a success.

Campaign Minnesota is a spirited invitation to come with us – to join the Medical Schools' talented group of scientists and educators in the race to find the causes and cures for many of the diseases that have affected our families for far too long.

Your generous financial support during this exciting moment in time will help us quicken the pace to discovery and treatment. Our great hope is that not only will our children and grandchildren benefit from the medical revolution at hand, but that each of us will as well.

It is with a tremendous sense of pride, hope, and confidence that we embark on this ambitious and visionary campaign. In advance, thank you for your consideration and support.

Sincerely,

Barbara Forster
Co-Chair, Campaign Minnesota and
Chair, Medical and Public Health Campaign

Alfred F. Michael, M.D.
Dean, University of Minnesota Medical School,
Twin Cities

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IN THIS ISSUE



SPECIAL CAMPAIGN MINNESOTA ISSUE

Welcome to Campaign Minnesota – a defining moment in the history of the University of Minnesota. The \$1.3 billion campaign is an unprecedented opportunity for the University to greatly expand its role as a resource for the state of Minnesota.

“There has never been a more exciting moment in the history of higher education and scientific research,” says University President Mark Yudof. “To make this our defining moment for decades to come and ensure the University’s position of leadership, we must enlist the devotion, support, and energies of all who care about the University of Minnesota.”

Campaign Minnesota is focusing on three key areas:

- recruiting, developing, and retaining top faculty
- attracting students with promise and helping them succeed
- investing in Minnesota’s future

More than \$900 million has been raised thus far toward the \$1.3 billion goal. Generous benefactors include alumni, faculty, students, corporations, foundations, and friends of the University of Minnesota.

Campaign Minnesota will have a tremendous impact on the Medical Schools in the Twin Cities and Duluth – an impact that will touch us all.



DEPARTMENTS

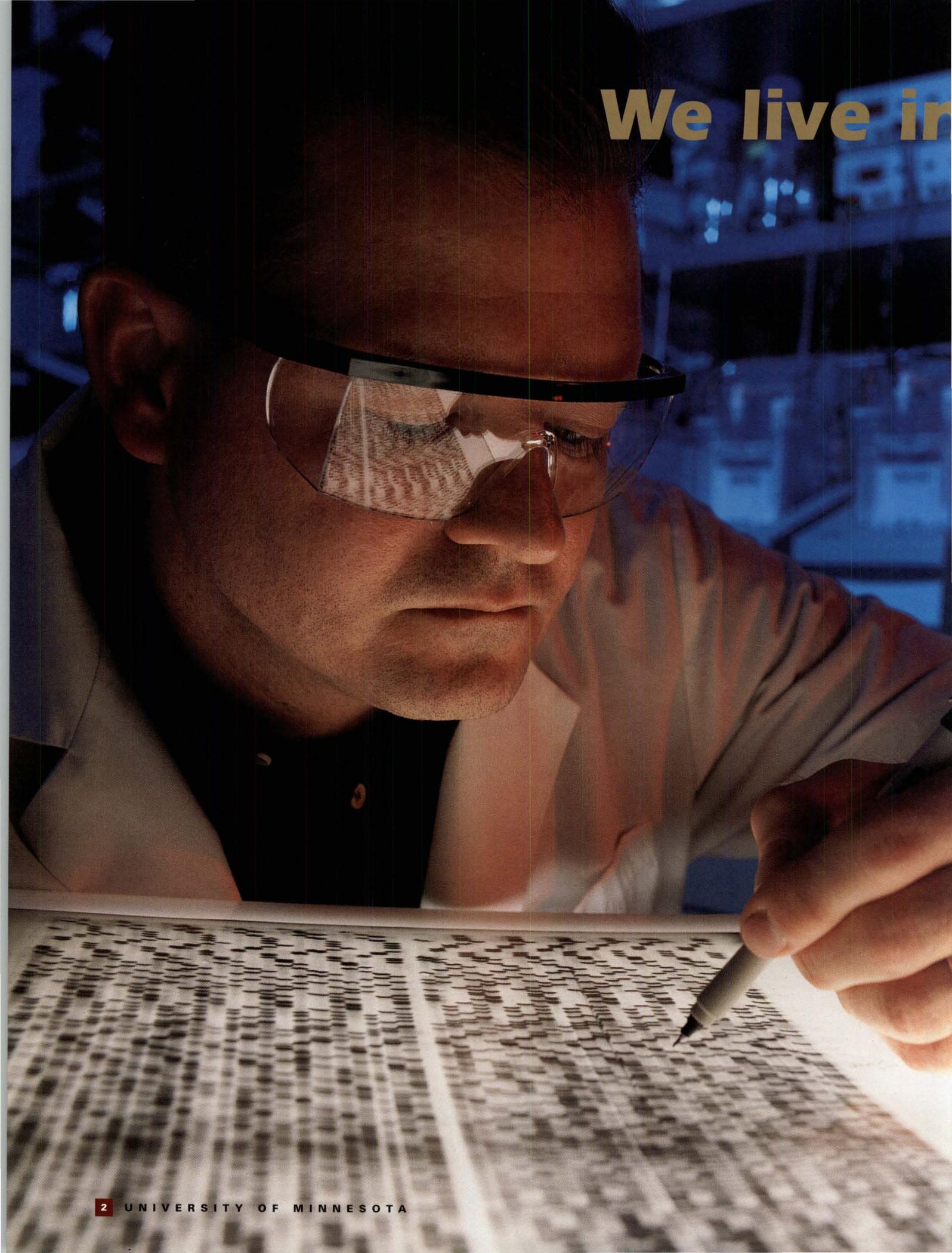
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ON THE COVER: Graduate student Chunbin Li is conducting research in the experimental cancer immunology laboratory. Photo by Tim Rummelhoff.

We live in



an extraordinary time

in the history of medicine. An explosion of biomedical research, with breakthroughs in human genetics, neuroscience, and many other areas, is enabling physicians and scientists at the University of Minnesota Medical Schools to do things that were unimaginable only a few short years ago.

The start of the new millennium begins an exciting and challenging chapter in the accomplished history of the Medical Schools – a defining moment that will determine our leadership position in the medical revolution already underway.

The seminal medical achievements of the 20th century – the development of vaccines, antibiotics, x-ray imaging, and transplantation, to name a few – are all dwarfed by the promise of innovations close at hand. The deciphering of the human genome – the 100,000 genes encoded by three billion chemical pairs in our DNA – is one of the most important breakthroughs of all time. Armed with an understanding of the genetic basis of humankind, physician scientists will – in time – have the tools necessary to develop incredible new therapies that will virtually wipe out the diseases of the ages.

For every human being on the planet, the post-genome era of cellular and molecular biology offers tremendous hope. Whether these discoveries will benefit us, our children, or our grandchildren will depend on many factors, including how quickly medical schools can transform themselves to operate within this new world order of medicine. As part of the University's \$1.3 billion Campaign Minnesota, the Medical Schools in the Twin Cities and Duluth will play a key role in this extraordinary era of discovery.

University researcher Bill Kiffmeyer, Ph.D., examines a DNA gel as part of his work on childhood leukemia.

A defining moment

Campaign Minnesota is indeed a defining moment for the University of Minnesota Medical Schools. On the following pages, you will be introduced to the Campaign Minnesota initiatives, based on current areas of strength and on the most promising areas for new discoveries and impact. You will also meet the faces of philanthropy – the researchers, students, patients, and benefactors who are truly making a difference for everyone.

University of Minnesota Medical School, Twin Cities The Medical School trains the majority of Minnesota's physicians, conducts groundbreaking research, and supports the state's biomedical industry. The school is seeking \$435 million to invest in three priority areas: Supporting Research and Faculty, Supporting Medical Education, and Funding Strategic Opportunities.

Meeting the goals of Campaign Minnesota will ensure that the Medical School can attract and retain top faculty, find treatments and cures for diseases, meet the state's needs for physicians, equip laboratories with the latest technology, and limit the amount of debt medical students incur to pay for their education.

Support of research and faculty focuses on 10 key areas: aging, cancer, cardiovascular and pulmonary health, children's health, diabetes, immunology and infectious diseases, neuroscience, new therapies, transplantation, and women's health. Emphasis will be on creating endowed chairs to attract exceptional researchers.

Campaign Minnesota will ensure that medical education continues to attract the best and brightest students, and to fund important new initiatives. Key areas



include: scholarships, graduate education, international health, bioethics, and prevention and wellness.

While these featured initiatives have been selected because of the urgent need for solutions, there are numerous other areas within the Medical School that need increased funding. Friends of the Medical School are encouraged to support the area of greatest interest to them and their families.

University of Minnesota, Duluth, School of Medicine Minnesota's small and rural communities depend on physicians with special training and deep commitment to handle the complexity of services needed. The University of Minnesota, Duluth, School of Medicine sustains these towns and communities, training many of the state's rural physicians and linking remote clinics with needed resources.

As part of Campaign Minnesota, the UMD School of Medicine has set a goal of \$15 million, with a special focus on three areas of strength: preparing primary care physicians for rural practice, training American Indian health care providers, and enhancing research in the areas of rural health and American Indian health as well as conducting basic biomedical research.



Aging

Old age can be a time of joy, of remembering, of contributing, of learning. Or it can be a time of pain, disability, and depression.

The population of Americans over 65 will double early in this new century; the number of individuals over 85 will triple. There is an urgency created by our aging society, and University of Minnesota clinicians and researchers are on a fast pace to find answers to the diseases and conditions that directly affect the quality of life of our senior citizens — Alzheimer's disease, macular degeneration, osteoporosis, arthritis, Parkinson's disease, and more.

The health and well-being of our elders affects not only the individuals and their families — it has a profound impact on our health-care system and our economy, as the

demand for home health services, assisted living facilities, and nursing home care accelerates.

But old age is not synonymous with ill health. Dramatic discoveries have been made in the area of geriatric health, and University of Minnesota investigators are pioneering studies that are being used by researchers world-wide. One such project offers tremendous hope for Alzheimer's sufferers, as research reveals how the disease progresses and what compounds can be used to prevent or slow its progress.

Funding through Campaign Minnesota will provide endowed faculty positions in aging, and support research on Alzheimer's and Parkinson's diseases, musculoskeletal degeneration, and other conditions associated with old age.

Envisioning the future

Deborah Ferrington, Ph.D., is an expert in the science of aging at the molecular level and was recruited in 1999 by the Macular Degeneration Center to conduct research on macular degeneration in the Department of Ophthalmology. She works closely with her colleagues in ophthalmology and other departments of the University where related projects in aging research are being conducted.

These projects are aimed at defining aging at the molecular level by analyzing the structure and function of proteins in the retina and skeletal muscle. Funding from the Minnesota Medical Foundation has enabled Ferrington and her colleagues to purchase an imaging system that has superior sensitivity for detecting small amounts of proteins, DNA, and RNA. This has been crucial in providing a powerful analytical tool for investigating the molecular cause of macular degeneration.

Ferrington explains the importance of having access to current research methods: "By using state-of-the-art techniques and equipment in aging

research, we have the potential for making major breakthroughs in understanding aging at the molecular level."



Deborah Ferrington, Ph.D.



Cancer

A multifaceted disease, cancer remains the second leading cause of death in the United States. Despite the complexity of causes, manifestations, and treatments, however, remarkable advances in cancer diagnosis and treatment have been made in the past few decades — many of them at the University of Minnesota, where leading doctors and scientists:

- pioneered the establishment of medical oncology as a formal discipline
- performed the first successful bone marrow transplant for immune deficiency and lymphoma
- discovered the cancer-preventing qualities of many foods, including cabbage and related vegetables
- were among the first to note the health hazards of cigarette smoking and the addictive quality of nicotine

The University of Minnesota Cancer Center brings together cancer-related research, education, patient care, and community outreach efforts. More than 350 individuals from throughout the Academic Health Center collaborate at a center noted for its work in leukemia, childhood cancers, bone tumors, women's cancers, head and neck cancers, and cancer prevention.

Funding through Campaign Minnesota will enable the University to recruit and retain the very best cancer researchers; pursue new research in areas such as brain tumor treatment, leukemia, cancer genetics, and pediatric cancers; help leverage additional funding from the National Institutes of Health and other sources; and establish and enhance laboratories.



Taking action against cancer

Barbara Forster has been involved in the community throughout her life. Now, as co-chair of the University's Campaign Minnesota and chair of the Medical and Public Health campaign, she is a vital part of this ambitious and visionary effort.

Forster's motivation is both professional and personal. She lost both parents and a brother to cancer, and is committed to supporting cancer prevention research. In memory of Louise, Grover, and John "Pepper" Forster, the family has established the Forster Family Fund for Cancer Prevention at the University of Minnesota Cancer Center.

Forster was chair of the Minnesota Medical Foundation Board of Trustees from 1996-98. She most recently served as chair of Heritage Bank Corporation, and before that served as vice chair of the Bank of Montana System and chair of Metro State University Foundation.

"This is a wonderful community, where many people give generously of their time and resources to make it an even better place," says Forster. "It is an honor to chair this compelling capital campaign which has the potential to make a significant difference in health care and public health."



Cardiovascular and Pulmonary Health

Despite monumental advances, cardiovascular diseases continue to claim more lives each year than the next seven leading causes of death combined. As the new century begins, the annual cost is estimated at nearly \$300 billion for health care expenditures and lost productivity resulting from diseases of the heart.

Although the figures are grim, progress is being made. From 1985 to 1995, death rates from cardiovascular diseases declined by 22 percent. Studies by the American Heart Association report appreciable declines in the incidence of heart attack, stroke, hospitalization, and premature death. The University of Minnesota is playing a vital role in these positive trends.

The University has invented or collaborated in the creation of numerous cardiovascular techniques, procedures, and devices that have saved the lives of countless people. The University's programs in pediatric cardiology, medical cardiology, cardiac arrhythmia, and cardiovascular surgery are exceptional, and researchers are poised to expand and enhance studies in these and other areas of cardiovascular health. Working together, they will search for new strategies to diagnose, prevent, and treat heart disease.

Funding through Campaign Minnesota will support the Lillehei Heart Institute, a comprehensive center for cardiovascular disease research; endowed faculty positions in cardiovascular surgery, pediatrics, and cardiology; the Heart Disease Prevention Clinic; the Acute Lung Injury Program; and renovation of research space.

The legacy of an open heart

"What mankind can dream, research and technology can achieve."

Those words, spoken by pioneer cardiac surgeon C. Walton Lillehei, M.D., set the course for the Lillehei Heart Institute, where his work will be carried on as a result of a \$13 million gift from Katherine (Kaye) R. Lillehei and the Lillehei family.

Walt Lillehei performed the world's first successful open-heart surgery, developed techniques to support circulation during surgery, helped develop the pacemaker and the artificial heart valve, and trained many of the world's leading heart surgeons.

"The University of Minnesota has been an integral part of our lives for so many years," says Kaye Lillehei. "This is an opportunity to give back to an institution that has given us so much." The announcement of the gift from the Lillehei family began a campaign to raise \$25 million to fund the institute.

The institute will bring together faculty from a number of Medical School departments to encompass basic and clinical research initiatives. Physicians at the institute will translate these new therapies into improved care for patients with heart disease. And, the institute will train the most promising young physician-scientists to follow in Walt Lillehei's footsteps.



Dr. Walt and Kaye Lillehei



Children's Health

University of Minnesota researchers and clinicians are looking for answers to the many conditions that affect our children — from tiny, premature babies to adolescents — to give them a healthier childhood and a healthier adulthood. They suffer from most diseases also present in adults — cancer, heart disease, diabetes, brain tumors — and indeed, research into childhood diseases is often the key to solving many of the medical conditions which affect both children and adults.

Thanks to new-found genetic tools, the factors which identify such afflictions as cardiovascular disease and

stroke, diabetes, and diseases of the brain, kidneys, and liver can be detected early in childhood. This detection can suggest lifestyle choices that will prevent the strong possibility of these diseases later in life.

The University of Minnesota has a rich tradition in child-based programs, drawing on outstanding faculty not only in pediatrics but in the areas of immunology and cancer, pharmacology, biochemistry, nutrition, social work, food science, and more. Working together, they continually strive to understand and conquer the diseases and conditions that touch our children,

and in so doing, gain understanding that will help give these children a lifetime of good health.

Private support through Campaign Minnesota will focus on establishing the Institute of Child Health and Human Development. Major endowed chairs, other faculty endowments, and additional research funding will support work in the areas of immunology, pediatric cardiovascular disease, cardiopulmonary vascular development, childhood cancer, genetics, pediatric nutrition, brain and behavioral development, childhood brain tumor research, and adolescent health.



Beth and Russ Bennett, right, with University President Mark Yudof and his wife, Judy.

Investing in the community

When it comes to volunteering in a University of Minnesota health-related capacity, Beth Bennett knows well of what she speaks. She began her public service career as a hospital volunteer while a junior at the University in 1949. Bennett eventually founded the Minneapolis Children's Foundation, which is now the Children's Foundation, and served on its board of trustees for 34 years. Bennett has since served on the boards of Child Care, Abbott Northwestern Hospital, Life Span (now Allina Health Systems), and most currently, the University Children's Foundation which supports research in the University of Minnesota's Department of Pediatrics.

While at the Minneapolis Children's Medical Center (MCMC), which became part of what is now Children's Hospitals and Clinics, Bennett was one of the organizers of the Association of MCMC. She was a leader in the original capital fund drive to build the hospital, which was chaired by her husband, Russell, who is currently serving as the chair for Campaign Minnesota.

Both Beth and Russ feel their activities are directly tied to the environment in which they live and work. In Beth's words, "We are very fortunate to have both grown up in this community and we are very committed to it. Our volunteer work has come from a desire to put whatever we can back in the community."



Diabetes

Leaving no segment of the population untouched, diabetes annually kills 185,000 Americans and debilitates hundreds of thousands more. The life expectancy for people with diabetes averages 20 years less than that of non-diabetics. Cardiovascular disease is two to four times more common in diabetics, and the statistics are the same for strokes. Diabetes is the leading cause of adult blindness in the United States.

But due in large part to work taking place at the University of Minnesota, there has been remarkable progress in diabetes treatment in recent years. The doctors who fight this complicated disease know it's only a matter of time until those suffering with the disease are able to lead normal, healthy lives.

In the meantime, research into the latest technologies, nutrition, metabolism, and transplantation continues to define and refine new ways for endocrinologists to help patients manage diabetes, potentially minimizing its complications.

Private support through Campaign Minnesota will endow faculty positions in areas such as obesity, nutrition, immunology, complications, and the fundamental and molecular basis of diabetes, and expand research into cutting-edge technologies for diabetes such as islet transplantation.

The hope of a cure

A serious scholar and all-around nice guy, Cory Cartier is perhaps best known as the star center on his Duluth, Minnesota, high school hockey team. What makes this achievement particularly notable is the fact that Cartier, age 18, was diagnosed at age 10 with Type 1 diabetes.

"The first step, for me, was simply accepting the fact that I have diabetes — to look it straight in the face," he says. "Sure, it's frustrating at times, but I can really do all the things my friends do. I just have to be more careful."

Cartier wears an insulin pump, a breakthrough device that continuously releases small amounts of insulin into the bloodstream. The result is an exceptionally careful management of blood sugar levels that helps him maintain the energy he needs on the rink.

Cartier's parents, Tom and Patty, are optimistic that islet transplantation will be perfected in the near term. "Even with the very best regulation of insulin levels, there's no guarantee that Cory will remain free from the complications of this disease throughout his lifetime," Tom says. "The cure can't come soon enough for us."*

Cory Cartier

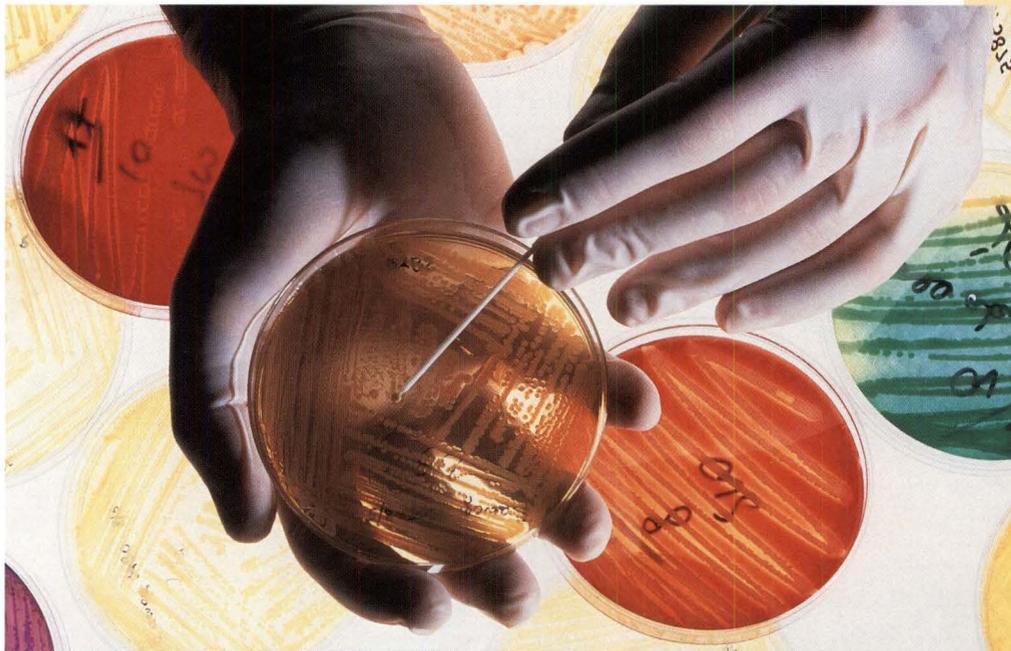




Immunology and Infectious Diseases

Just three decades ago the Surgeon General of the United States claimed victory over infectious diseases, in a declaration that couldn't have been more mistaken. As we enter a century of excitement and promise on many medical fronts, newly discovered infections are threatening the health of large numbers of individuals, even as older contagions, once virtually extinct, re-emerge.

Widely considered leaders in the field, researchers at the University of Minnesota are on the front lines of the battle to contain microbial diseases. They stand to



make phenomenal strides in the next few years, as the genomics revolution brings the capacity to analyze genes in microbes – and to develop effective vaccines for a wide range of diseases.

Minnesota faculty are renowned for their work in the area of re-emerging dread diseases caused by streptococci bacteria, for their research into the causes and treatments of Lyme disease, and for their quest for new antibiotics to battle numerous new and recurring conditions.

To gain control once again over infectious diseases, a strong effort from researchers around the world will be needed, coupled with increased support of new and innovative ideas.

Funding through Campaign Minnesota will establish a Center for Infectious Diseases and Vaccines and a Center for Immunology. It will also make possible endowed chairs, other faculty positions, vaccine research development, projects in epidemiology, core research facilities, and equipment.

Fighting Lyme disease

The University of Minnesota developed the first vaccine for Lyme disease in 1988, which is presently being used in animals.

Using recombinant agents, pharmaceutical companies developed that vaccine into a vaccine for humans, which was first available to the public in 1999 and is apparently effective.

Russell Johnson, Ph.D., and his colleagues have moved from studying Lyme disease to studying another disease carried by the same breed of deer tick. Human granulocytic ehrlichiosis (HGE) produces flu-like symptoms similar to Lyme disease, but no distinctive red rash, making it nearly impossible to diagnose conventionally.

Jesse Goodman, Ph.D., of the University of Minnesota was the first researcher in the world to culture this organism from humans, which was first discovered in 1994 in the Duluth area. Recently Goodman and his colleagues have identified the molecule on

human cells that binds to the bacterium responsible for HGE. This finding gives scientists a promising target for the development of a vaccine against the disease as well as new drugs that might be useful in treating a variety of disorders.





Neuroscience

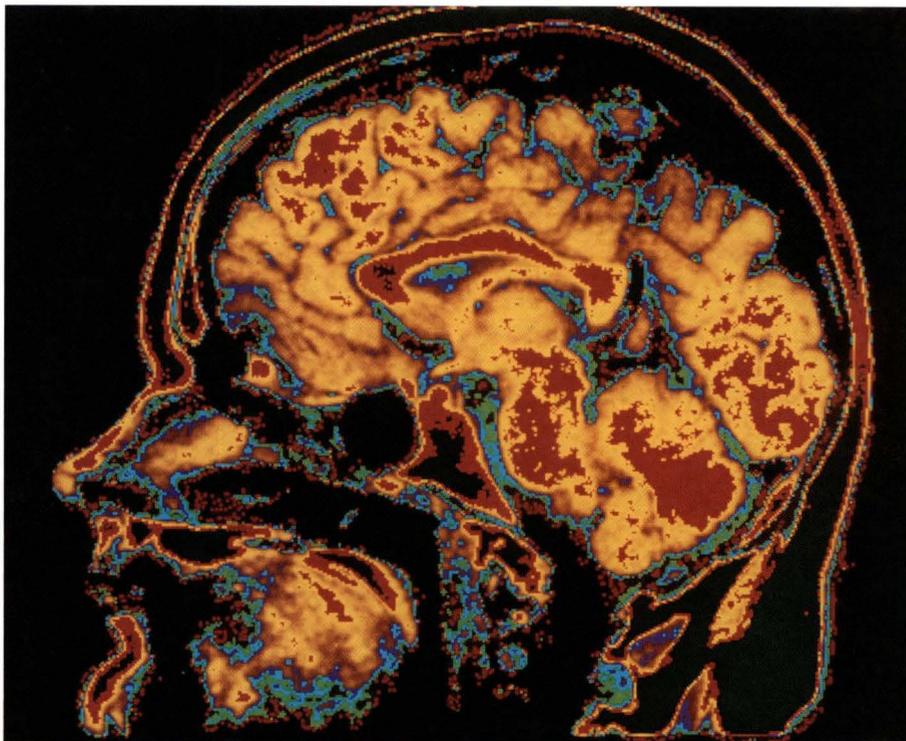
Diseases related to the brain cost the United States economy \$600 billion a year, and affect one in three Americans during their lifetimes. Fifty million Americans have a permanent neurological disability that limits their daily activities. Eighteen million suffer from depression, four million from Alzheimer's disease, and the list goes on.

The solutions to diseases of the brain are as complex as the brain itself. More than 80 faculty members at the University of Minnesota are working collaboratively to unlock the mysteries of the brain and nervous system. Through access to one of the most powerful magnetic resonance imaging instruments in the world – located on the Twin Cities campus – Minnesota faculty members are developing new brain imaging techniques.

University scientists are focusing on memory, movement, and learning, and are continuing their efforts to advance the diagnosis and treatment for devastating brain-related disorders such as Alzheimer's disease, multiple sclerosis, Parkinson's disease, and biological depression.

Knowing how the brain works is critical for humanity to understand itself. This remarkable organ, however, remains one of the great mysteries of the human body, only slowly yielding up its secrets. But through painstaking research and intensified collaboration, the answers will come. For the millions of individuals who suffer from neurological diseases, they cannot come too soon.

Funding through Campaign Minnesota will support endowed faculty positions, acquisition of sophisticated instrumentation, research projects, and the creation of new laboratories to focus on higher brain function, brain injury, brain development, degenerative brain diseases such as Alzheimer's and Parkinson's, and mental illness.



Pushing the boundaries of neuroscience research

The Center for Magnetic Resonance Research at the University of Minnesota Medical School, a world leader in high-field magnetic resonance research, received a \$1.75 million grant from the W.M. Keck Foundation of Los Angeles to help fund a one-of-a-kind magnet system to study the function and neurochemistry of the human brain.

The 7 Tesla magnet, one of the most powerful imaging systems in the world, will make it possible to gain insights into the role of the brain as it engages in visual, motor, or cognitive functions; to investigate aspects of brain chemistry non-invasively; and to learn more about the effects of neurological diseases like Alzheimer's, psychiatric disorders like schizophrenia, and chronic diseases such as diabetes.

"The 7 Tesla magnet system holds great promise for pioneering research on the human brain," says Kamil Ugurbil, Ph.D., director of the Center for Magnetic Resonance Research, "especially when combined with the outstanding expertise and talents of the faculty at the University of Minnesota, many of whom are internationally recognized for their work."



New Therapies

The mapping of the human genome and the ensuing understanding of the most basic level of life – at the cellular and molecular level – is leading to new therapies long considered the stuff of science fiction.

Gene therapy – a featured player in early 21st century medicine – offers the potential to conquer cancer, grow new blood vessels in the heart, block the growth of blood vessels in tumors, stimulate the growth of new neurons

in the brain and ultimately, perhaps, even reset the genetic coding that causes cells to age.

While such therapies are generating excitement, they also demand patience and caution. The time it takes to fully understand the workings and ramifications of molecular biology will depend greatly on the level of financial support for the scientists, technology, and facilities that are essential for success in the new millennium.

Through Campaign Minnesota, private contributions will support an in-depth study of vascular biology, and faculty work in the areas of pigment genetics, molecular gastroenterology, and neurodegenerative diseases. Funding will help expand the Center for Molecular and Cellular Therapy and support endowed faculty positions and other resources in the areas of gene therapy, cellular therapy for neural disease, and stem cell therapy.



Catherine Verfaillie, M.D.

Pioneering research

Working with gene therapy, Catherine M. Verfaillie, M.D., and her colleagues in the Department of Medicine hope to convert stem cells from bone marrow into muscles and organs, work that could lead to a way to grow replacement organs. Stem cells are essential for generating all blood elements and are especially useful in treating cancer.

Verfaillie holds the Edmund Wallace Tulloch and Anna Marie Tulloch Endowed Chair in Stem Cell Biology, Genetics, and Genomics, as well as the Andersen Chair in Stem

Cell Biology. Her pioneering research is being watched by colleagues around the world.

Edmund Tulloch donated \$5 million to the University of Minnesota Medical School for unrestricted support of medical research. A California resident who worked most of his life as a federal employee, Tulloch lived in the Twin Cities as a young boy and graduated from the University of Minnesota's business school.

The generous gift from the Tullochs gave the Medical School the opportunity to launch new research initiatives, invest in new technologies, and support the work of faculty researchers such as Catherine Verfaillie.



Transplantation

Widely regarded as one of the world's leading transplant centers, the University of Minnesota has been a pioneer in transplants related to the heart, kidneys, lungs, liver, and pancreas. Campaign Minnesota will help create the Transplant Institute at the University of Minnesota, which will enhance the already significant work being done at the University.

Faculty at the Transplant Institute will work closely with three existing centers – the Diabetes Institute for Immunology and Transplantation, the Center for Immunology, and the Cancer Center – to coordinate efforts and enhance the strengths of each research area.

The Transplant Institute at the University of Minnesota will bring about accelerated efforts in research, treatment, and patient care – and the results will have a major impact on children and adults in Minnesota and beyond.

Support provided through Campaign Minnesota will help establish the Transplant Institute at the University of Minnesota, an interdisciplinary effort to increase collaboration between researchers, teachers, and clinicians involved in transplantation.

Minnesota firsts in transplantation

- In 1999, physicians at the University of Minnesota performed their 5,000th kidney transplant – a medical milestone. The University is only the second in the world to achieve this record, and University surgeons are the only group worldwide to transplant all of the following: kidneys, livers, lungs, islets, pancreases, and intestines from living donors. Pioneering kidney transplants were performed by the University's Richard Varco, M.D., in 1963.
- The University of Minnesota is home to one of the largest and most successful pancreas transplant programs in the world, and recently celebrated the 1,200th pancreas transplant. The world's first successful pancreas transplant was performed in 1967 by University surgeons Richard Lillehei, M.D., and William Kelly, M.D.
- The world's first two bone marrow transplants were performed in 1968. The team at the University of Minnesota was led by Robert Good, M.D., and Richard Hong, M.D.; the University of Wisconsin team was led by Fritz Bach, M.D., who later became director of the University of Minnesota Medical School's Immunobiology Research Center.





Women's Health

Researchers and physicians in the University of Minnesota's Department of Obstetrics, Gynecology, and Women's Health are helping lead the effort to understand, diagnose, and treat conditions that affect women, including heart disease, breast and reproductive cancers, osteoporosis, and many illnesses affecting mature women. The University of Minnesota is:

- one of only a few institutions selected to participate in the National Institutes of Health's Women's Health Initiative, the largest and most extensive research project in medical history, which is examining the causes, prevention, and cures of diseases in women
- a national leader in survival statistics for ovarian, cervical, and vulvar cancers
- one of 30 medical centers nationwide offering advanced training in women's treatment and research
- a center for innovative research in hormone replacement therapy, non-invasive surgical techniques, ultrasound technology for diagnosing reproductive cancers, and studies in many other areas of women's health

The pace is increasing, but much more basic and clinical research is needed. Research studies involving women must become the norm rather than the exception, and women's health issues must be universally recognized as a top priority.

Funding from Campaign Minnesota will help establish the Center for Women's Health Research, and will support endowed chairs in clinical cancer studies, reproductive endocrinology, maternal fetal medicine, general gynecology, gender based medicine, and mature women's health.



Susan Sullivan is given a chemotherapy treatment by Suk Cha Shin, R.N.

The promise of research

When Susan Sullivan was first diagnosed with ovarian cancer in 1996, she and husband Tom Sullivan, dean of the University of Minnesota Law School, had been in Minnesota less than one year and had a very busy life. "Not only did Tom and I have an active social and travel schedule related to his duties as dean, but additionally, we were dealing with two family members who were also fighting cancer, my father and Tom's brother."

After her initial diagnosis, surgery, and first cycle of chemotherapy, Sullivan enjoyed seven months of remission. But, as is typical of ovarian cancer, the cancer returned, and over the last four years Sullivan has been a frequent patient in the Masonic Cancer Center where she continues to receive chemotherapy to control the spread of her tumors. Since her diagnosis, she has been on five different types of chemotherapy and endured numerous surgical procedures to remove her cancer.

Despite her ongoing struggle, Sullivan remains positive about her life and about the hope for a medical breakthrough in treating ovarian cancer. "The chemotherapy treatments I am using, and the ovarian cancer marker blood test, CA125, are available today because of medical research," she says. "They are why women with ovarian cancer today are surviving more than five years. I believe that nothing is more important to fighting ovarian cancer than funding medical research."



Scholarships

More and more, top-performing college graduates with career ambitions in medicine are opting for other fields because of the staggering costs of a medical school education.

This scenario is particularly familiar in Minnesota where tuition and costs amount to more than \$37,000 a year for state residents.

As a result, medical students carry a debt load unfathomable to physicians from another era. The most recent graduating class averaged debt of \$85,000 with many exceeding \$100,000.

Fortunately, many connected to the Medical School have long supported students and the future of health care by contributing to Minnesota Medical Foundation scholarship funds. In 2000, the Foundation awarded nearly \$900,000 in scholarships to 384 medical students.

For Minnesotans, enticing gifted students to the University of Minnesota Medical Schools in the Twin Cities and Duluth is especially important for the future of health care in this state. Two-thirds of the students who graduate from the University of Minnesota Medical Schools remain in Minnesota to practice. The quality of health care in the state is directly tied to the quality of students who graduate from our medical school.

Campaign Minnesota will provide a significant increase in funding for Medical School scholarships. With this competitive edge, the University will be more likely to attract and retain top students from throughout the nation, and to ensure a diverse and talented student body.



Doctors helping doctors

Marc Newell decided at age 10 to become a physician. He was experiencing considerable pain from a rapid growth spurt, and a pediatrician helped him through the difficult period.

"I knew then," says Newell, "that I wanted to make people feel good just like he did."

Now a University of Minnesota medical student, Newell received the Royal C. and Mary H. Gray Scholarship – designated for students from small towns and rural communities – his first year of medical school. He is from the Fergus Falls area.

"It was very encouraging to receive this recognition," says Newell, "and to know that people appreciate the potential of what kind of doctor I'm going to become. Facing this huge debt is definitely intimidating. Dr. Gray's gift demonstrates his concern for people, which is what medicine is all about."

Gray had a special concern for young people from rural areas who want to become doctors, knowing they sometimes lack the financial and educational opportunities available to students in cities and larger communities. The scholarship provides full tuition support for the first year of medical school for young men and women from rural Minnesota.



Graduate Education

Graduate education programs in the nation's medical schools produce the scientists that develop the skills for finding the cure for cancer, the remedy for diabetes, or the medical device to slow the progression of Parkinson's disease.

The men and women with ambitions to become medical researchers have a long and rigorous educational path ahead. Those who make the grade – who pursue a Ph.D. or the combined M.D./Ph.D. degree – eventually fill top research positions in academics and industry.

The national and international standing of the University of Minnesota Medical School and its research reflects on the strength of its graduate training programs. Graduates comprise an elite group heavily recruited into fellowships and ultimately faculty positions at the nation's most prestigious universities.

To compete for the very best, the University of Minnesota greatly needs to improve the financial packages it offers to applying students. The astounding opportunities provided by the genetic revolution make supporting graduate level programs especially important.

The income from funds endowed through Campaign Minnesota will support the costs of intensive recruiting efforts in the basic science departments. It will provide competitive stipends to attract superior applicants to graduate education, including the rigorous M.D./Ph.D. combined training program.



Graduate student Chunbin Li

Promise for the future: M.D./Ph.D. program

Training students to treat disease and also conduct scientific research into the causes of the disease is an extraordinary endeavor. The students in the M.D./Ph.D. program represent the physician scientists of the future, who will be at the forefront of biomedical research, teaching, patient care, and administration.

They are the students who love both medicine and science, and their commitment to bridging the gap between clinical medicine and research helps them through the long and arduous course.

The M.D./Ph.D. program at the University of Minnesota combines approximately seven years of coursework – fundamental biomedical research culminating with a dissertation and Ph.D. degree, and clinical training resulting in an M.D. degree. A central theme of the program is the interface between basic biomedical science and clinical practice, with the two approaches to disease constantly intertwined.

Students are chosen for the program from a national pool of highly qualified candidates, and upon completion of their studies are aggressively recruited by the top postgraduate training medical centers in the country.



International Health

As the world decreases in size, global medicine is increasing in complexity. A large influx of immigrants and refugees from Africa, Russia, Southeast Asia, Eastern Europe, and Latin America has brought an exciting dimension to the cultural diversity of our country but also new challenges for the health care system.

Increased travel to developing countries has brought back infections rarely seen in this country. The globalization of our food supply has resulted in an alarming escalation in infections caused by food-borne organisms.

To prepare students, faculty, and health care providers for the new challenges of a global village, the Medical School has responded by revising its educational, clinical, and research priorities.

The International Medical Education and Research Program (IMER) coordinates the many initiatives related to international health, ensuring that medical students and faculty are positioned to address the multiple issues of globalization.

One primary objective of IMER is to provide third- and fourth-year medical students the opportunity to experience clinical practice and research abroad. Scholarships supporting international experiences provide critical financial support for the growing number of medical students wishing to participate in international health.

Contributions to Campaign Minnesota will support an endowment for the International Medical Education and Research Program, endowed chairs in international health and international health research, and scholarship support for third- and fourth-year medical students electing a clinical or research training experience abroad.

Experiencing other cultures

Rachel Zent spent an academic year during medical school working and learning in Tanzania, South Africa, and India, and wholeheartedly encourages all medical students to have experiences in other cultures. She believes it can help students gain confidence in their own skills as they focus on the patient in situations very different from those at home.

Zent was a recipient of a Medical Student International Study Award established by Drs. N.L. and Sarah Gault as well as a Minnesota Medical Foundation student research grant.



Rachel Zent and a young friend in Africa



Bioethics

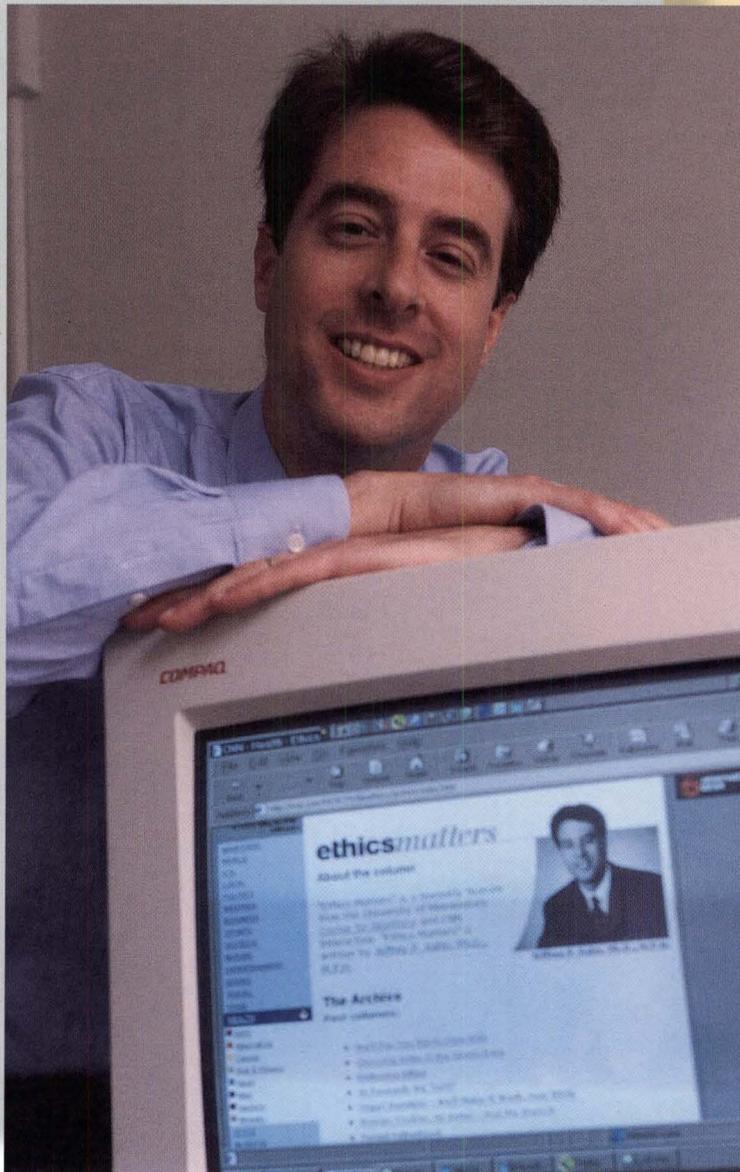
Rarely have so many ethical issues in medicine reached beyond university classrooms and into the forefront of public discussion. Is there a difference between selling eggs and selling kidneys? Should HIV and genetic test results be made available to insurers? Who owns valuable cord blood anyway?

The University of Minnesota's Center for Bioethics within the Academic Health Center has long been a leader in cutting-edge research, innovative education, effective community outreach, and public policy. When a topic related to medical ethics hits the news – whether it be euthanasia, stem cell research, or genetic testing – scholars, multiple media outlets, and the public at large turn to the University of Minnesota for its opinion on the subject.

There is an expanding demand for knowledge in bioethics in university classrooms and throughout society and the University of Minnesota is prepared to provide it.

Private funding through Campaign Minnesota will ensure that the Center for Bioethics remains a place where cutting-edge research and scholarship occur.

Private support through Campaign Minnesota will help create a Bioethics Resource Center; endow a chair in bioethics; fund a project in Outreach and Education on Genetics and Health Care; and support an endowment for Ethics Across the Curriculum, an interdisciplinary effort to ensure that every student who graduates from an Academic Health Center program will make decisions within an ethical framework.



Facing bioethical issues online

A genetic test shows that a woman has a higher-than-normal risk of developing breast cancer. Should an insurance company be allowed to use this result? A wealthy couple wants desperately to have a child, but the woman is infertile. Should they be allowed to offer thousands of dollars to entice a young woman to donate eggs?

These are the complex and difficult questions that occupy the attention of Jeffrey P. Kahn, Ph.D., M.P.H., director of the University's Center for Bioethics. They also are of tremendous interest to some of the more than 10 million daily visitors to CNN Interactive, the online version of the cable news giant which features his "Ethics Matters" column (see www.cnn.com/health).

Kahn has written about a variety of subjects, including human testing of an AIDS vaccine, allowing strangers to donate kidneys, HIV reporting, genetic testing, and the drug Viagra. He believes outlets like CNN help advance one of the center's primary missions, which is to contribute to the development of public policy on bioethical issues.

Jeff Kahn, Ph.D., M.P.H.



Prevention and Wellness

The age-old saying, "An ounce of prevention is worth a pound of cure," has rapidly become an accepted mantra in American medicine.

Today, it's commonplace to believe that quitting smoking, watching one's diet, exercising regularly, and understanding warning signs all lead to significant decreases in cancer, heart disease, and other sometimes preventable diseases.

Immunizations and such public health measures as cleaner food and water, the near-elimination of lead paint, and the rise in the use of seat belts have not only reduced the incidence of premature death and disability, but have

improved the quality of life as well.

With people having access to health information as never before – and with patients taking more responsibility for their own health – the interaction between doctor and patient has changed considerably over the past 10 years. Add to this the emerging field of complementary medicine – the use of vitamins, herbs, food supplements, and spiritual healing practices – and it's clear that prevention and wellness has become as important to overall health as traditional treatments for disease and illness.

The Medical School, along with the School of Public Health and other

Academic Health Center programs, embraces the concept of prevention and promotion of wellness. Yet, in part because of tradition, there is a great need to more fully integrate prevention into the curriculum and promote improved collaboration among the various health disciplines.

With support through Campaign Minnesota, the University will create an interdisciplinary Prevention and Wellness Institute; endow a chair in preventive medicine and health promotion and professorships in prevention and wellness; and support critical initiatives in the School of Public Health.

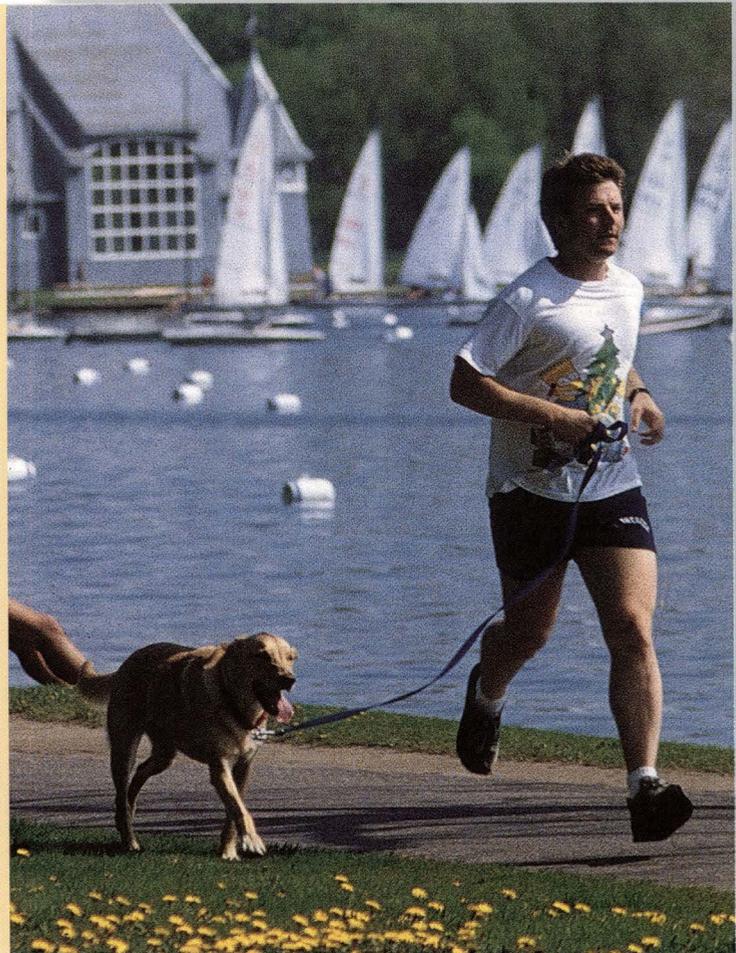
School of Public Health: keeping us healthy

Minnesota's citizens are among the healthiest in the nation. This is largely a tribute to the state's public health programs, for while it is up to physicians to treat the body when something goes wrong, it is the efforts of public health professionals that keep us well.

Many diseases of the past century have been eradicated, driven back by cleaner water, cleaner food, and proper waste disposal. Diseases like polio and measles have all but disappeared thanks to widespread inoculations, and antiseptics have dramatically reduced risks from surgery and hospital stays.

But today's challenges often defy such straightforward solutions, and public health workers are dealing with problems such as violence in schools and homes, infectious diseases like AIDS, and high-risk behavior in young people.

The University of Minnesota School of Public Health affects the life and well-being of nearly every individual in Minnesota. Since the school's founding more than 50 years ago, it has been the place where good health begins – for the state, the region, and beyond.





Duluth School of Medicine: Sustaining Rural Communities

Founded in 1972, the UMD School of Medicine is the result of an effort by Duluth community and University leaders to bring more physicians to the state's underserved areas. In a short time, the school has dramatically changed the face of health care in Minnesota, educating physicians who understand the health care needs of small communities and conducting population-based research that addresses their concerns.

As part of Campaign Minnesota, the UMD School of Medicine has set a goal of \$15 million, with a special focus on three areas: preparing primary care physicians for rural practice, training American Indian health care providers, and enhancing research in the areas of rural health and American Indian health as well as basic biomedical research.

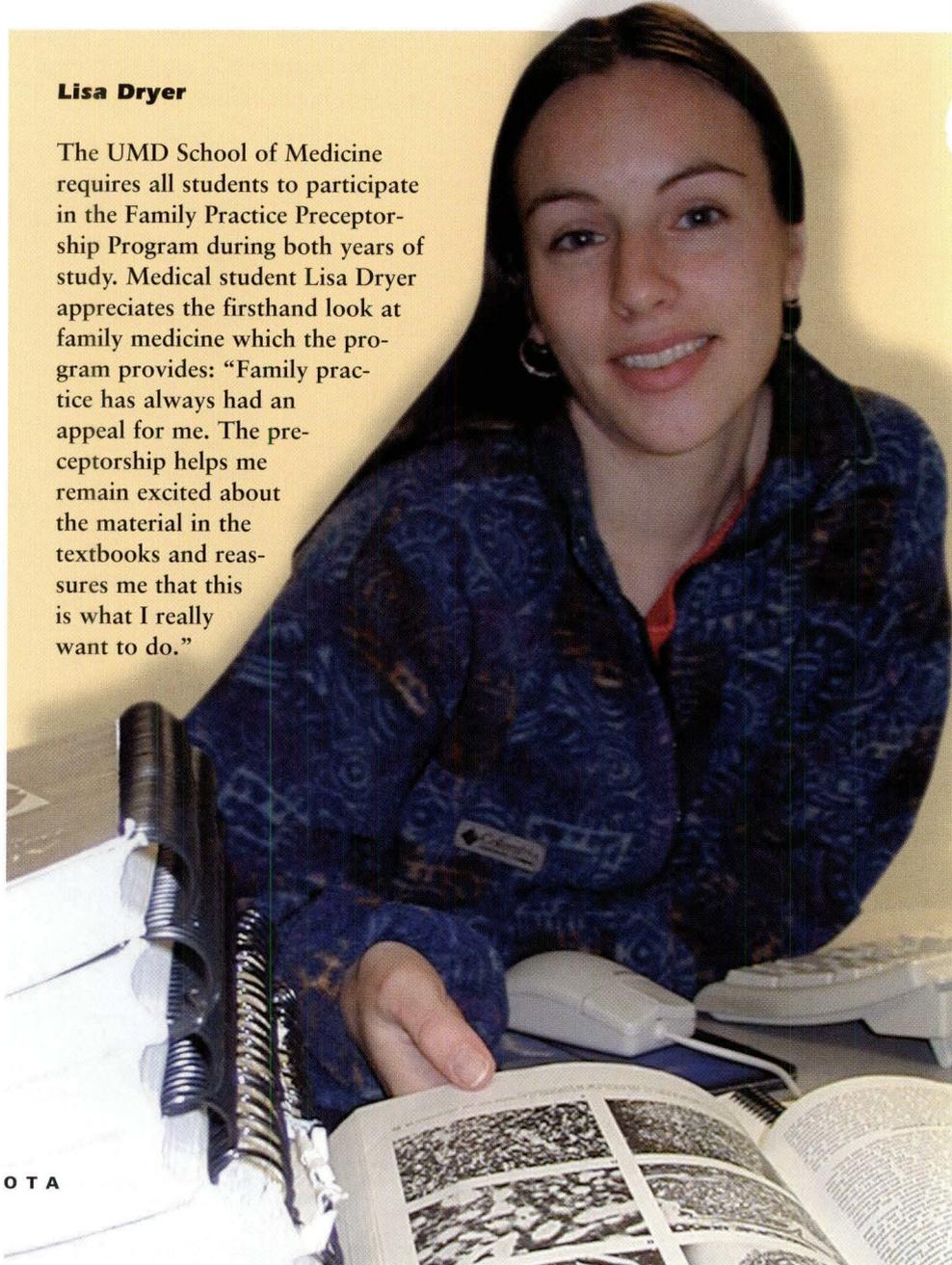
Preparing Tomorrow's Doctors

Meeting the health needs of rural communities requires finding ways to serve physicians, community members, and students pursuing rural health careers. The school not only prepares physicians for rural health challenges, it also serves as a medical resource for the entire state and region. Through Campaign Minnesota, \$4 million will go to support the following initiatives in medical education:

- Scholarships
- Center for Technology Enhanced Education and Research
- Visiting Scholars Program and Seminar Series
- Student Success in Research

Lisa Dryer

The UMD School of Medicine requires all students to participate in the Family Practice Preceptorship Program during both years of study. Medical student Lisa Dryer appreciates the firsthand look at family medicine which the program provides: "Family practice has always had an appeal for me. The preceptorship helps me remain excited about the material in the textbooks and reassures me that this is what I really want to do."





Supporting Research and Faculty

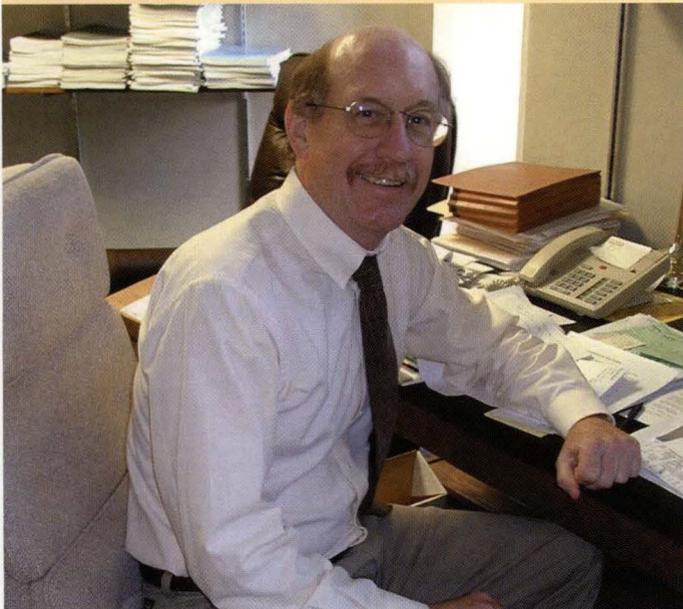
With its focus on rural health and its deep connection to special populations, the UMD School of Medicine is well-equipped to conduct innovative, effective research – research that could have a nationwide impact.

Campaign Minnesota seeks \$8 million to advance the quest for knowledge and to attract and retain the best faculty – two initiatives that are inextricably linked. The following campaign initiatives support faculty and priority research areas based on the UMD School of Medicine's current areas of research strength and on the most promising areas for new discoveries and impact.

- Center for Rural Mental Health Studies
- Rural Health Research/Education Endowed Chair and Environmental Medicine Endowed Chair
- Center for Cell and Molecular Biology
- Faculty Retention Fund

Gary Davis, Ph.D.

Gary Davis, Ph.D., associate professor and head of the Department of Behavioral Sciences, says, "Our vision of the Center for Rural Mental Health Studies is to create the knowledge that will allow the development of solutions and the creation of new treatment strategies for rural communities."



Supporting Special Populations

American Indians continue to be the most under-represented of minority groups in medicine. The UMD School of Medicine is one of only a few schools in the nation to actively recruit American Indian applicants. Through UMD's Indian Health Pathway, American Indian students receive academic support and individualized assistance at all levels of education, from kindergarten through health professional school. As part of Campaign Minnesota, the school hopes to raise \$3 million to continue serving special populations through the following initiatives:

- Programs of the Center of American Indian and Minority Health
- Native American and Minority Scholarships
- Special Population-Based Research
- The Center of American Indian and Minority Health Endowed Chair

Joy Dorscher, M.D.

Joy Dorscher, M.D., associate director of the Center of American Indian and Minority Health, is an enrolled member of the Turtle Mountain Chippewa Tribe. A graduate of the UMD and Twin Cities medical schools and a participant in the Indian Health Pathway training program during her medical school years, she says, "Each of our graduates has unique talents and insights beyond their medical education. This places them in a position to be effective health care providers for American Indian people as well as mentors to youth in the communities they serve."



Photos by Dan Schlies

Welcome new Presidents Club members

Because of their generous support, the following donors have recently become members of the University of Minnesota Presidents Club in the giving societies listed below. Their gifts have been designated either all or partially to the Medical Schools, School of Public Health, Cancer Center, or other areas served by the Minnesota Medical Foundation. Graduates of the Medical School or School of Medicine, Duluth, are indicated by a class year following their names.

BUILDERS SOCIETY

\$1 million and above

+ Frederick E. and + Doris Bjorklund
Dr. Frederick J. Bollum
Dr. Raymond C. and Velmabelle Cornford
+ Dr. Albert D. Cornia
Douglas J. and Wendy Dayton
Charles Denny
Forster Family
+ Dr. Dennis J., '55 and Patricia S. Kane
+ Dr. C. Walton, '41 and Katherine R. Lillehei
W. Duncan and Nivin S. MacMillan
Dr. Malcolm A. and Louise W. McCannel
National Foundation for Functional Brain Imaging
Dr. Michael M. and Treva R. Paparella
+ Dr. Harry N. Simmonds

REGENTS SOCIETY

\$500,000 to \$1 million

Dr. Kurt Amplatz
Ruth D. and + Everett A. Drake
Dr. Lester C. and Joan M. Krogh
John M. and Susan M. Morrison
+ Phyllis S. and + C. Davis Poehler
Dr. Wayne H., '58 and Patricia A. Schrader

TRUSTEES SOCIETY

\$100,000 to \$500,000

Dr. Charles M. and Ruth H. Bagley
Sheikh Mohammed Bin Mafouz
Nancy Mills Boyce
Yvonne C. Cooke
Edward N. and Sherry Ann Dayton
Dr. William R., '58 and Ruth Y. Foster
Dr. William P., '39 and Elizabeth V. Gjerde
Drs. James F. Hart, '75 and Maureen K. Reed, '79
Dr. James H., '63 and Janelle House

Dr. Doris I. Johnson, '57
Dr. Sping and Ying-Ngoh T. Lin
Dr. Robert E. and Karen A. Maxwell
Robert and Lorie Long Michaels
Dr. Glen D., '63 and Marilyn C. Nelson
Dwight D. Opperman
Diana Peterson and Joseph Limacher
Dr. Jerome D., '66 and Meredith A. Poland
Dr. Gaylan L., '66 and Mary H. Rockswold
Dr. Ernest and Bernice Ruiz
Drs. Elsa A. Shapiro and Victor A. Bloomfield
Teddy and Laura Wong

CHANCELLORS SOCIETY

\$50,000 to \$100,000

Dr. Paul J. and Karen Camarata
Dr. Harry O. and Mary G. Cole
Carl and + Jill Henrici
Dr. Charles R. and Sally B. Jorgensen
Dr. John H., '64 and Anne N. Kersey
David S. and Beth M. Patten
Melvin G. and Marilyn L. Peterson
Dr. David A. and M. Kathleen Rothenberger
Sheldon Bert Sparber, Ph.D.
Donna M. Spooner
Dr. Eugene S., '64 and Shirley L. Strout
Margaret E. Swenson
Dr. Roby C. and Jane S. Thompson

FOUNDERS SOCIETY

\$25,000 to \$50,000

Lou and + John Barwise
Drs. Robert W. and Lynne (Michael) Blum
Patricia K. and Mike Boen
Dr. Arnetta M. Brown, '37
Mary E. and + Frederick W. Davis
Drs. Brian E. Engdahl and Raina E. Eberly

J. Hap and Geren Watson Fauth
Evelyn M. Fehlhaber
Donald L. and Patricia A. Garofalo
Dr. John W. Gridley
John and Denise Hirschbeck
Victoria Holmen
Andrew M. and Carole T. Hunter
Lorraine P. Jamar
Robert W. and E. Elizabeth Johnson
Dr. Frederick J., '45 and Astrid E. Kottke
Dr. Russell V. and Ellen T. Luepker
Christopher Louise Meyer
Dr. Richard P. Moser and Piaree Madoo-Moser
Dr. Mahmoud G. Nahib and Mounira A. Hassan
Dr. Edward L., '53 and Shelley K. Segal
Donald J. Swanson
Dr. Phudhiphorn Thienprasit
David Wheaton and Michele M. Moylan

HERITAGE SOCIETY

James G. and Dee A. Boulger
+ Dr. Arlen G., '66 and Gisela M. Brodin
Charles V. Carlson
Dr. Thomas C. and Anne D. Carrier
Mary Ann Constantine
June I. Engleson
John R. Finnegan
Dr. Clifford C. Fortin
Dr. William R., '58 and Ruth Y. Foster
Gerald C. Fox
Dawn M. Halverson
Gregory L. Jawor
Thomas P. and Diane Lentz
Dr. Richard L., '72 and Jacalyn M. Lindstrom
+ Alvin Miller
+ Anna Miller
Carol L. Pine
Dr. Ernest and Bernice Ruiz
Donna M. Spooner
Dr. Robert James, '75 and Judith Peck Tierney
James and + Patricia Van Valkenburg
Walter E. and Sandra K. Wayne
Drs. Gayle and Lloyd A. Whitesell, '60
Dale M. and Nora E. Wright

+ Deceased

Generous benefactors show commitment to the future

Many thanks to the following donors who have made recent commitments of \$100,000 or more to the future progress of health-related education, research, and service at the University of Minnesota. Graduates of the Medical School or School of Medicine, Duluth, are indicated by a class year following their names.

John and Catherine Agee, West St. Paul, have made a gift of securities of over \$100,000 in support of the Women's Health Fund.

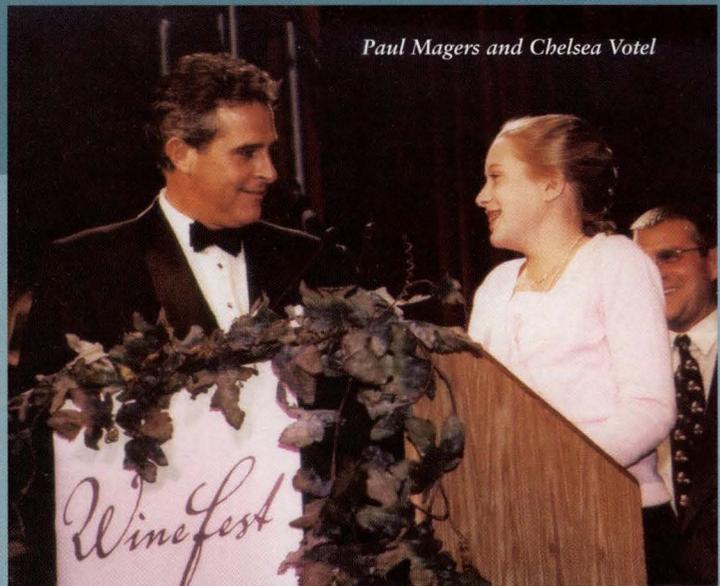
Dr. Kurt Amplatz, St. Paul, has made a gift of nearly \$400,000 to establish the Amplatz Innovation Fund which supports research and education in the Department of Radiology. Dr. Amplatz retired from the department last year.

Thanks to the leadership of Donald L. Garofalo, president and CEO of Andersen Corporation, the Friends of Cardiology Fund in the Division of Cardiology in the Department of Medicine has received gifts totaling \$700,000 from the *Andersen Foundation*, the *Katherine B. Andersen Fund of the Saint Paul Foundation*, and the *Bayport Foundation*.

WineFest No. 5 Exceeds Expectations

The 5th Annual WineFest benefit for the University Children's Foundation was held May 12-13, 2000. Paul Magers, KSTP-TV news anchor and emcee, introduced speaker Chelsea Votel, age 13, at Saturday night's Fine Wine Dinner at the Marriott Minneapolis City Center. Chelsea, who has cystic fibrosis and receives treatment at the University, challenged the audience with her speech on the importance of supporting pediatric research, stating that the children who benefit from research "could become the next president or your doctor."

This year's WineFest exceeded expectations by raising a net total of more than \$500,000, an increase from last year's total of \$340,000. The two-day event also included Friday night's wine tasting at the University's McNamara Alumni Center, a silent auction on both nights, and a live auction during Saturday's Fine Wine Dinner. All net proceeds will go to benefit pediatric research at the University of Minnesota.



Paul Magers and Chelsea Votel

Generous benefactors, *continued*

A gift of \$200,000 from the estate of **Mildred A. and Gerald Arneson**, Wayzata, Minnesota, has been used to establish the Mildred and Gerald "Tay" Arneson Research Fund and the Mildred and Gerald "Tay" Arneson Endowed Cancer Research Fund, both of which will provide support for activities directed at the elimination of cancer through research, education, and patient care at the University of Minnesota Cancer Center.

A \$100,000 gift has been received from the **Bemis Company Foundation** for the Friends of Cardiology Fund.

Sheikh Mohammed Bin Mafouz, Jeddah, Saudi Arabia, has given \$150,000 to the Diabetes Institute for Immunology and Transplantation in support of islet research and transplantation.

Blue Cross and Blue Shield of Minnesota has provided a grant of \$145,295 to the Department of Medicine for the Tobacco Cessation Guideline Implementation Assessment Fund. The grant will support research and education to improve health care provider delivery of tobacco cessation services.

Dr. Shelley N. and Jolene J. Chou, Rio Verde, Arizona, have made an estate gift of \$500,000, half of which will enhance the Shelley N. and Jolene J. Chou Endowed Chair in Neurosurgery and half of which will establish an endowed chair in bioethics at the University's Center for Bioethics. Dr. Chou is a professor emeritus in the Department of Neurosurgery and served as interim dean of the Medical School from 1993 to 1996.

Yvonne Chenoweth Cooke, Wayzata, Minnesota, has made a gift of securities of

\$388,000. This gift will be combined with previous gifts to establish the Yvonne Chenoweth Cooke Endowed Professorship in Medical Technology. Mrs. Cooke is a 1937 graduate of the Medical Technology program.

Through a bequest, **Joseph W. Dasset**, M.D., Class of 1925, Whittier, California, established a charitable remainder annuity trust of over \$1 million. The trust will ultimately fund the Joseph W. Dasset, M.D., Endowed Scholarship in the Medical School.

The University Children's Foundation (UCF) has received a generous gift of \$100,000 from **Wendy and Douglas Dayton**, Wayzata, Minnesota, through their family foundation, the **Meadowood Foundation**, to support research in the Department of Pediatrics. Wendy is a member of the UCF board of directors.

An Anonymous Gift in support of cancer and cardiovascular research

Skilled scientists are focused on the day when illnesses like cancer and heart disease are no longer a threat to our families and ourselves. This day will come because of the medical research that takes place in clinics and laboratories at institutions such as the University of Minnesota. A generous \$5 million gift from an anonymous donor will bring the answers to these medical mysteries ever closer.

The gift was announced at the Minnesota Medical Foundation's May 6 gala kickoff of Campaign Minnesota. More than 400 benefactors and friends enjoyed an evening of celebration and anticipation as they listened to University President Mark Yudof, Senior Vice President for Health Sciences Frank Cerra, Medical School Dean Al Michael, and others describe the exciting possibilities the campaign holds for the Medical Schools.

Four million of the gift will go to support multidisciplinary research in cancer at the University of Minnesota Cancer Center – directed for groundbreaking studies in cancer biology, prevention, detection, causes, treatment, and extended life.

One million of the gift will support research into cardiovascular health. The University's programs in cardiology are exceptional, and researchers are poised to expand and enhance studies in numerous areas such as pediatric cardiology, cardiac arrhythmia, and cardiovascular surgery.

*The Minnesota Medical Foundation's
Campaign Minnesota kickoff at the
McNamara Alumni Center*

Natalie Dietrich, Pequot Lakes, Minnesota, has made a \$200,000 life income gift designated for Complementary Medicine Curriculum Enhancement at the Medical School.

A gift of securities of over \$100,000 from **Ruth D. Drake** and her late husband **Everett A. Drake**, Minneapolis, has been designated for islet research and transplantation at the Diabetes Institute for Immunology and Transplantation.

Mary Louise Boyler and Dr. Leland J. Green, Class of 1955, Glenside, Pennsylvania, have made a life income gift of \$125,000 to benefit the Medical School.

With a gift of \$100,000 from **Roger L. and Lynne C. Headrick**, Wayzata, Minnesota, commitments to the Roby C. Thompson, Jr. Chair in Musculoskeletal Oncology now exceed \$2.6 million. The chair was established with leadership gifts from W. Duncan and Nivin MacMillan and John and Susan Morrison. To date more than 90 individuals

have contributed to the chair, including **Michael E. and Kathleen A. Dougherty**, Wayzata, Minnesota, who have contributed \$100,000 through the Dougherty Family Foundation.

Claire J. Hemingway, Kernville, California, has made a life income gift of \$100,000 which will support the Sarah J. Gault Scholarship for Women Medical Students. Mrs. Hemingway received her M.A. in physiological chemistry from the University. Her husband, Dr. Allan Hemingway, was a professor in the Medical School, and a scholarship was established several years ago in his memory.

Janelle and Dr. James H. House, Class of 1963, Roseville, Minnesota, have funded a new lectureship in the Department of Orthopaedic Surgery with a real estate investment valued at \$225,000. The House Lectureship in Orthopaedic Hand Surgery will be established with this gift which will also be used to support the existing Dr. James H. and Janelle House Scholarship. Dr. House, professor emeritus in the Depart-

ment of Orthopaedic Surgery, has been named chair of the Scholarship Campaign Committee for the Medical School.

Gregory L. Jawor, Eagan, Minnesota, has included a \$100,000 gift in his estate plans for the Department of Ophthalmology to be used for corneal research and treatment.

A grant of \$200,000 has been received from the **W.K. Kellogg Foundation**, Battle Creek, Michigan, in support of the Konopka Institute for Best Practices in Adolescent Health, part of the Department of Pediatrics. The institute was initiated in 1995 as a community-university partnership devoted to promoting the health and well-being of adolescents in Minnesota. It is named after Gisela Konopka, D.S.W., professor emerita, and recognizes her landmark work with adolescents.

A life income gift from **Dr. Lester C. and Joan M. Krogh**, Woodbury, Minnesota, to the Lester C. and Joan M. Krogh Endowed Scholarship has increased \$200,000 to a



Generous benefactors, *continued*

total of \$260,000. The Krogh Scholarship will provide financial assistance in the form of scholarships or grants to medical students.

Anne and Dr. John W. LaBree, Class of 1940, Edina, Minnesota, have made an estate gift of \$500,000 to establish the Dr. John W. and Anne LaBree Endowed Scholarship Fund. Dr. LaBree is a former dean of the University of Minnesota, Duluth, School of Medicine.

Dr. Sping and Ying-Ngoh T. Lin, St. Paul, have committed \$100,000 to establish the Dr. Sping and Ying-Ngoh T. Lin Graduate Fellowship Endowment in Neurosciences.

Dr. Malcolm A. and Louise W. McCannel, Minneapolis, have given almost \$300,000 in securities to create the Malcolm A. McCannel Endowed Chair in Ophthalmology. The McCannels have also made a life income gift of \$300,000 which will also support the chair.

A \$250,000 gift from the estate of **Anna Miller** and her brother, **Alvin Miller**, has established the Edward and Amanda Miller Family Endowment Fund. The fund honors the memory of their parents, Edward and Amanda Miller, and Anna's and Alvin's brothers, Hugo and Warren. The Miller family lived on a farm near Wheaton, Minnesota.

The **Minnesota Vikings Children's Fund, Inc.** has given \$270,000 to the Vikings Children's Fund in the Department of Pediatrics, a \$40,000 increase from their gift last year. The gift will support a variety of research projects in the Department of Pediatrics.

A gift from the estate of **Frank D. Naegeli, M.D., Class of 1936**, Minot, North Dakota, brings his total gift to the Frank D. Naegeli, M.D., Endowed Scholarship to over \$387,000.

The **National Foundation for Functional Brain Imaging**, Albuquerque, New Mexico, has awarded a grant of over \$2.1 million to acquire a magnetoencephalography (MEG) machine and to support interdisciplinary research using MEG and fMRI techniques.

A grant of \$100,000 to the Regulation of Cardiac Conduction Survey Fund has been received from the **Dwight D. Opperman Foundation**, Minneapolis, in support of the Cardiac Arrhythmia Center.

An additional life income gift of \$279,000 from the estate of **Phyllis S. Poehler**, Minneapolis, brings her gift to a total of \$650,000, which will be used to establish the Phyllis S. Poehler International Medical Education and Research Program Endowed Fund.

Research to Prevent Blindness (RPB) has recently awarded a \$100,000 grant to the Department of Ophthalmology to support research into the causes, treatment, and prevention of blinding diseases. The world's leading voluntary organization supporting eye research, RPB has awarded

Patricia Kane

Supporting students through scholarships

"Educating students and promoting education have always been interests for me and my husband," says Patricia Kane. The University graduate and former nurse has made a planned gift totaling \$1.25 million to the Dennis J. and Patricia S. Kane Endowed Scholarship in the Medical School, the University Children's Foundation, and the Patricia Kane Scholarship and Densford Leadership Fund in nursing.

Patricia Kane received degrees in social welfare and nursing from the University, and Dennis Kane was a graduate of the Medical School. He served on the faculty as an associate professor of internal medicine, and was director of medical education at St. Paul Ramsey Hospital. Dr. Kane died in 1999. According to Patricia, "He was a man who loved life and gave of himself through medicine."

One or more scholarships will be provided annually to students at the University of Minnesota Medical Schools who plan to specialize in internal medicine. Patricia Kane looks forward to the time when the first scholarships are presented. "I think it will be wonderful to see them being awarded to the students," she says.



Patricia Kane

Photo by Dan Marshall

grants totaling \$1,573,701 to the University of Minnesota.

Bernice and Ernest Ruiz, M.D., Minneapolis, have committed \$250,000 along with a \$250,000 bequest to establish the Ernest and Bernice Ruiz Faculty Support Fund in Emergency Medicine. The fund will be elevated to a professorship once the \$500,000 level has been reached.

Drs. John B. Sanford, Class of 1948, and Julie C. Moller Sanford, Duluth, have made an additional estate gift of \$500,000, bringing their total gift to \$755,000 to establish the John B. and Julie Moller Sanford Endowed Scholarship for the University of Minnesota, Duluth, School of Medicine.

Jean M. and Thomas E. Shannon, Minneapolis, have made a life income gift to establish the Shannon Family Endowed Research Fund in Atopic Skin Diseases in the Department of Dermatology and the Shannon Family Endowed Anterior Segment Research Fund in the Department of Ophthalmology.

Adelaide J. Skoglund, Key Largo, Florida, has given a gift of \$100,000 in memory of her husband, John C. Skoglund, through the **Ocean Reef Community Foundation, Inc.** The gift established the John C. Skoglund Lung Cancer Research Fund under the direction of Dr. Arek Dudek in the Hematology, Oncology, and Transplantation Division of the Department of Medicine.

A planned gift from **Myrna Rose Strand**, Minneapolis, has increased by \$216,000 to a total of \$466,000. Her gift will establish the Strand Research Fund which will fund research in the areas of Parkinson's disease, Alzheimer's disease, and depression.

A gift of over \$200,000 from the estate of **Pearl Josephine Waxweiler**, Eyota, Minnesota, has been received in support of pediatric charitable care at the University of Minnesota.

A life income gift of \$150,000 from **Sandra K. and Walter E. Wayne**, Minnetonka, Minnesota, to the University of Minnesota Cancer Center will establish the Walter E.

and Sandra K. Wayne Endowed Cancer Research Fund.

Constance Olson Bakken, a 1946 graduate of the University's Medical Technology program and a resident of New Brighton, Minnesota, has given \$100,000 through the **Whitney Arcee Foundation** to establish the Constance Olson Bakken Scholarship in the Division of Medical Technology.

Variety Children's Association is the beneficiary of a gift of \$178,000 from the estate of **Art and Dorothy Ziegler**, Minneapolis, designated for heart research at the University of Minnesota. Art enjoyed a 37-year career as manager of the College Branch of the M.F. Patterson Dental Supply Company which provided dental supplies and instruments to students at the University's School of Dentistry. The students often met at the College Branch location to study and socialize, where Art served as a mentor to many of them.



William J.
Knobloch, M.D.

Frederick E. and Doris Bjorklund

A gift of sight

"If it were not for Dr. Knobloch, I wouldn't be able to see."

Doris Bjorklund woke up the morning of Christmas Eve and couldn't see. Her doctor told her to immediately contact Dr. William Knobloch of the University of Minnesota's Department of Ophthalmology. Knobloch left his Christmas preparations to perform emergency surgery on Doris that same day.

Out of a deep sense of gratitude for the dedicated care provided by Knobloch to Doris for over 20 years,

the Bjorklunds left half of their estate to the Department of Ophthalmology. Their gift of more than \$1.5 million not only helps fund retinal research but also established the Frederick E. and Doris Bjorklund Fund which supports all of the educational, clinical, and research activities of the department.

Both Fred and Doris had been active in the community, and their gift continues that commitment to those around them. Fred was a retired president and chairman of Minnesota Federal Savings and Loan and was prominent in St. Paul business and civic life. Doris had worked for the St. Paul schools and later became involved in volunteer work. Their gift shares this vision with others who will benefit from the research being done in the Department of Ophthalmology.

Diehl Award Winners Announced

Two prominent University of Minnesota Medical School alumni have been named recipients of the 2000 Harold S. Diehl Award, given by the University of Minnesota Medical Alumni Society in honor of the Medical School's fifth dean, Dr. Harold Sheely Diehl. These prestigious lifetime awards are granted to individuals who have made outstanding professional contributions to the Medical School, the University, and the community. They were presented June 2 during Reunion Weekend.

Dr. H. Mead Cavert was honored for his extraordinary service to the University of Minnesota Medical School as a teacher, administrator, and alumni volunteer. A 1950 graduate of the Medical School, he is emeritus professor of medicine and served as associate dean of the Medical School for an unprecedented 28 years. His tenure began in 1956 as assistant dean to Dean Diehl, and continued as associate dean from 1964-92 through the tenures of Deans Robert Howard, N.L. Gault, Jr., and David Brown. During his time in the dean's office, he served medical students and faculty alike with a commitment and dependability that is legendary. He is considered an excellent teacher and role model.

As associate dean, Cavert is credited with keeping the Medical School on an even keel while working with multiple vice presidents for health sciences, deans, and hospital administrators. His



Drs. Richard M. Magraw and H. Mead Cavert

quiet, unassuming stability, integrity, attention to detail, and vision contributed to and maintained the Medical School's well-deserved reputation for excellence.

Cavert also holds a Ph.D. in physiology and served as professor in the Department of Physiology for 25 years. As Uni-

Alumni Recognition Awards Presented

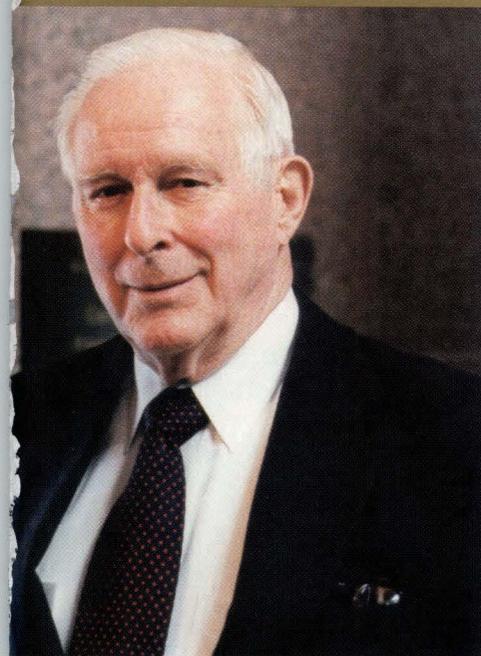
Dr. Paul S. Sanders, Class of 1970, and Dr. Valerie K. Ulstad, Class of 1982, have been named recipients of the third annual Alumni Recognition Award, given by the Medical Alumni Society in recognition of exemplary achievements in the community or field of medicine, or for outstanding service to the University of Minnesota Medical School, in the past five years.

Dr. Paul Sanders, who has been a physician for 30 years, began his career in a small mining town and practiced what he calls "frontier medicine." Times have changed, technology has changed, but Sanders' desire to improve the patient-physician relationship has not.

He became CEO of the Minnesota Medical Association in 1990, and since that time has worked tirelessly with the Legislature and regulators to address public health issues. The MMA is a 10,000 member association of Minnesota physicians and medical students committed to creating an environment where physicians can deliver high-quality effective medical care.

As a practicing family physician, Sanders remains committed to care of the elderly and serves as the corporate medical director of Benedictine Health Dimensions, a long-term care management company managing more than 70 long-term and acute care facilities in the Upper Midwest. He is director of the Long-Term Care Foundation of America.

Sanders chairs the board of trustees of Bethel College and Seminary and is also president of the Shepherd's Foundation, an international mission that sends doctors, nurses, dentists, and educators to the Ukraine several times a year to transport medical supplies and teach new techniques to Ukrainian physicians.



versity Hospital chief of staff in the late 1970s and early 1980s, he was an inspiration to his colleagues. Through his enormous contributions as a volunteer in civic and professional organizations, his distinguished reputation extends far beyond the University community.

Cavert has held and continues to hold

many civic and academic positions in organizations including the Minneapolis YMCA, Lutheran Health Care Bangladesh, Minnesota Medical Foundation, American Medical Association, Association of American Medical Colleges, American Physiological Society, Minnesota Academic Medicine, and the University of Minnesota Medical Alumni Society. Although now retired, Cavert is still a faithful attendant at Grand Rounds and lectures.

The Medical Alumni Society honors **Dr. Richard M. Magraw** for his extraordinary contributions to our nation's system of medical education. A 1943 graduate of the Medical School, he is board certified in psychiatry and internal medicine. Magraw served as professor and head of the Psychiatric Comprehensive Clinic Program at the University of Minnesota Medical School under the leadership of Dr. Cecil Watson, and was one of the first recipients of the student award for outstanding faculty physician.

Magraw was assistant dean under Dean Robert Howard's tenure, and led the fight for medical students to see patients and be involved with the teaching process. He was also chair of the AMA Committee on Undergraduate Medical Education.

Magraw left the University for an appointment in the Department of Health, Education, and Welfare under the administration of President Lyndon Johnson. One of his primary responsibilities was to distribute NIH funds to medical schools. Following Johnson's term, Magraw returned to academia and assisted in the creation of three new medical schools within the University of Illinois System and later became president of the Eastern Virginia Medical School.

He retired in 1992 after 12 years as chief of psychiatry at the Minneapolis Veterans Affairs Medical Center, thus completing his legacy as an influential leader in American medical education.



Drs. Valerie Ulstad and Paul Sanders

Dr. Valerie Ulstad holds the distinctive honor of being the only physician to receive the Distinguished Clinical Teaching Award from the Minnesota Medical Founda-

tion five times (1989-92, 1994). She is considered a gifted physician both in her technical expertise and in her commitment to excellent patient care. Increasingly, Ulstad is being recognized

for her groundbreaking efforts to include physician health as part of the Medical School curriculum.

Ulstad holds a number of clinical and academic appointments, including clinical associate professor of medicine, Department of Internal Medicine; consulting cardiologist, Minneapolis Cardiology Associates, Minneapolis Heart Institute; and associate academic adviser to the office of the senior associate dean, University of Minnesota Medical School.

Ulstad has also served as interim director, Health Partners Cardiovascular Institute; director, Coronary Care Unit/Post CCU and Cardiac Rehabilitation, St. Paul Ramsey Medical Center; and clinical director of Women Veteran's Comprehensive Health Center, Minneapolis Veterans Affairs Medical Center.

IN MEMORIAM

DR. ALLAN J. BENSON, Class of 1941, Coyote, California, died January 30 at age 86. He was a captain in the U.S. Air Force and served as acting chief, Medical Service, Lackland Air Force Hospital. Benson went into private practice in San Jose, California, and later joined six other physicians to form a pioneering medical partnership in 1955. After his retirement in 1978, Benson and his wife spent a year in Saudi Arabia, where he was a medical consultant with International Health Associates and Kaiser International. In 1979 Benson returned to medicine, working for various drug abuse clinics associated with the Santa Clara County Health Department until 1995. Benson is survived by his four children.

DR. JONATHAN EDELSTEIN, Class of 1964, Tarrytown, New York, died January 8 at age 62. After graduating from medical school, he served as a captain in the U.S. Air Force in Korea. Edelstein maintained a private practice and was former chief of staff, senior attending surgeon, and president of the Independent Physicians Association at Phelps Memorial Hospital in Sleepy Hollow. He also served as the Ossining Police Surgeon and was involved in the Ossining Volunteer Ambulance Corps. Edelstein received the Leader's Award in 1996 for his volunteer service. He is survived by his wife, Linda, and two daughters.

DR. LAURA E. EDWARDS, Class of 1948, Eagan, Minnesota, died April 19 at age 78. Shortly after graduating from medical school, Edwards, along with her husband, an ordained minister, moved to Assam, India, where she worked for 18 years as a medical missionary. They returned to Minnesota in 1968 when she joined the staff of St. Paul Ramsey Medical Center, now Regions Hospital, as an obstetrician and gynecologist. She later became medical director of the Health Start Program, a model clinic for high-risk women and infants. In 1985 Edwards began missionary trips to Cameroon, West Africa, where she trained village women to be birth attendants. Even after retiring from active practice at age 76, she continued her trips on a yearly basis. She was named Woman Physician of the Year in 1989 and was a former president of the Minnesota Obstetrical and Gynecological Society in 1993. She is survived by three children.

DR. MARTIN C. FLORINE, Class of 1950, Madison Lake, Minnesota, died January 25 at age 82. Florine completed his medical internship and residency at Gorgas Hospital in the Panama Canal Zone after graduating from the University of Minnesota. He returned to the United States in 1961 and opened an internal medicine office in Mankato where he practiced until his retirement in 1992. He is survived by his wife, Dorothy, and six children.

DR. DANIEL P. GILBOE, Class of 1967, Edina, Minnesota, died January 13 at age 65. Gilboe received a Ph.D. from the University of Minnesota in biochemistry. He was a member of the American Society of Biochemistry and Molecular Biology, and the American Association for the Advancement of Science. He is survived by his wife, Beth.

DR. DONALD A. GILSDORF, Class of 1950, Wabasha, Minnesota, died February 8 at age 79. Gilsdorf worked for many years at Miller and United Hospitals. He is survived by his wife, Marion, and four children.

DR. ROBERT IRVING GRUYS, Class of 1946, St. Cloud, Minnesota, died April 25 at age 82. With continued studies he earned a Diplomate of the American Board of Surgery, became a Fellow of the International College of Surgeons, and was listed in Who's Who in the World. For several years he practiced in Ganado, Arizona, and Estes Park, Colorado. From 1979 until his retirement in 1994 Gruys practiced general surgery and family practice, specializing in alcoholism and chemical dependencies at the Veterans Hospital in St. Cloud. He is survived by his wife, Cornelia, and four children.

DR. CURTIS MARVIN HANSON, Class of 1940, Kalamazoo, Michigan, died June 10 at age 84. Hanson served in the U.S. Army Medical Corps from 1942 to 1947 when he retired as a major and chief orthopaedic surgeon. He began his private practice in Kalamazoo in 1949. He served as chief of surgery and chief of staff at Bronson Methodist Hospital, was director of the Crippled Children's Clinic in Bronson from 1951 to 1983, and was the director of the Orthopaedic Residency Training Program in Kalamazoo beginning in 1966. Hanson is survived by his son, Bill, and his family.

DR. J. JEROME "JERRY" HOPPERSTAD, Class of 1953, Wayzata, Minnesota, died December 22 at age 77. Hopperstad served in the U.S. Army Air Corps during World War II and practiced radiology in Minneapolis from 1959-83. He is survived by his wife, Ruth, and two children.

DR. DOUGLAS L. JOHNSON, Class of 1934, Gull Lake, Minnesota, died July 27 at age 90. Johnson practiced medicine in a Civilian Conservation Corps camp near Grand Marais his first year after medical school. In 1938 he moved to Little Falls and practiced family medicine until 1954. He became a Fellow in the American College of Surgeons that same year. In 1955 Johnson returned to the University of Minnesota and completed a residency in ophthalmology. He returned to Little Falls and Brainerd where he established the Northern Eye Center and practiced ophthalmology until his retirement. He was also a clinical associate professor at the University where he taught eye pathology. He is survived by his four children.

DR. BRUCE L. KANTAR, Class of 1944, Minneapolis, died December 15 at age 81. In addition to being a graduate of the Medical School, Kantar received an M.S. degree in ophthalmology from the University of Minnesota. He served as a captain in the U.S. Army Medical Corps during World War II. He was in private practice for over 35 years and spent part of his career teaching ophthalmology residents at the University of Minnesota and the Veterans Affairs Hospital. Kantar was preceded in death by his wife, Sally, and is survived by three sons and their families. Memorials are preferred to the Program in the History of Medicine, toward the establishment of the Dr. Bruce and Sally Kantar Annual Lecture in the History of Medicine, through the Minnesota Medical Foundation.

DR. HAROLD KATKOV, Class of 1953, St. Paul, died January 19 at age 72. After his internship and service as medical officer in the U.S. Navy, he returned to the University of Minnesota for his residency in pediatrics which was followed by training in pediatric cardiology at the Variety Heart Hospital. From 1962-70 he practiced as a pediatrician and a cardiologist in Wayzata and Minneapolis. He founded the Children's Heart Clinic in 1970. Along with 30 other physicians, Katkov helped raise funds for the Minneapolis Children Hospital in 1973. His appointments included: clinical associate professor in pedi-

iatrics at the Medical School, founder and director of the cardiology section at the Minneapolis Children's Medical Center, and past president of the Hennepin County Division of the Minnesota Heart Association. He is survived by his wife, Genevieve, and three sons.

DR. JOSEPH S. MASSEE, Class of 1955, Edina, Minnesota, died January 13 at age 70. Massee's obstetric and gynecologic career spanned 45 years. He founded Obstetrics Gynecology Infertility, Ltd., and was instrumental in establishing a women's health center at North Memorial Hospital. He is survived by his wife, Marcia, and five children.

DR. VERNON EDWARD MIKKELSON, JR., Class of 1950, Hayward, California, died March 23 at age 77. Mikkelson served in the Pacific during World War II and continued as a lieutenant commander in the Medical Corps of the Navy Reserve. He practiced family medicine in Grants Pass and Portland, Oregon, and in Los Angeles and Hayward, California. He is survived by his wife, Mary, and six children.

DR. LESTER WILLIAM NETZ, Class of 1926, Vero Beach, Florida, died February 19 at age 99. Netz served in the U.S. Army Medical Corps during World War II. He was a fellow in the American College of Anesthesiology and was the chief of anesthesiology at Hackensack Hospital. He is survived by his wife, Lois.

DR. BENJAMIN W. PAPERMASTER, Class of 1961, Coronado, California, died December 22 at age 65. In conjunction with a close team of colleagues led by Dr. Robert A. Good, a world-renowned pediatrician and immunologist from the University of Minnesota, Papermaster participated in seminal research which led to the evolution of the immune response. His work in immunology continued at the University of California at Berkeley. He later moved to Buffalo, New York, and co-founded one of the earliest biotechnology companies, Associated Biomedical Systems. He received a patent for his work showing that cytokines could slow or eliminate cancer growth. He is survived by his wife, Sue, and four children.

DR. ALDEN F. RISSER, Class of 1935, Minneapolis, died December 5 at age 87. Risser was a long-term resident of Stewartville, Minnesota, where he practiced medicine as a family doctor from 1936 to 1994 when he retired. He was preceded in death by his son, Daniel, who was also a family practice physician. He is survived by his wife, Marion, and three children.

DR. DANIEL A. RISSER, Class of 1972, Portland, Oregon, died May 31 at age 52. After receiving his M.D. degree, Risser moved to Portland and completed his internship at Emanuel Hospital. He was a family practice physician for 25 years before retiring in April. He is survived by his wife, Nancy, and two children.

DR. JAMES F. SHANDORF, Class of 1936, Minneapolis, died February 14 at age 90. Shandorf did his post-graduate work at Cornell University Medical Center in New York, where he studied under Dr. George Papanicolaou, who developed the Pap test. In the 1940s, before obstetrical care was considered a necessity, Shandorf encouraged women – regardless of their financial means – to see a doctor in the early stages of their pregnancy. Shandorf also taught this philosophy to his students and residents at the University of Minnesota Medical School where he received the distinction of professor emeritus. He also received the Leonard Lang Distinguished Teaching Award, named

after his partner who also taught at the University. Shandorf retired in 1980. He is survived by his wife, Catherine, and three children.

DR. EDWARD L. STREM, Class of 1938, San Raphael, California, died February 13 at age 86. Strem was in private practice in St. Paul for 40 years in the specialties of pediatrics and pediatric allergy immunology. Concurrent with his practice, Strem was a clinical professor (emeritus) of pediatrics at the University of Minnesota. He also served as a director of the Pediatric Allergy Clinic at St. Paul Ramsey Medical Center and Children's Hospital, St. Paul. After moving to San Rafael, Strem became clinical professor of pediatrics at the University of California, San Francisco. He served as a medic in the Army during World War II. He is survived by his wife, Betty, and three children.

DR. JOHN I. WILLIAMS, Class of 1948, Ft. Lauderdale, Florida, died January 1 at age 77. Following his tour of duty in the U.S. Army and Air Force, Williams completed his medical residency in Chicago. He moved to Ft. Lauderdale in 1955. He served as president of the Broward County Medical Association, chief of surgery, chief of urology, and president of the Florida Urological Society, as well as president of the Southeastern Section of the American Urological Society. In recognition of his service to his patients and to his profession, the Caducean Society awarded him the Doctor of the Year Award in 1995. He is survived by his wife, Mary Ellen, and five children.

DR. ROBERT L. WONSAVAGE, Class of 1972, Minneapolis, died April 12 at age 54. WonSavage spent his 26-year-career in family practice and later in geriatrics for Health Partners. He worked at branches in Bloomington and Brooklyn Center. He was described as "a student of his work," occasionally teaching classes at the University of Minnesota to keep up with the latest medical trends. He is survived by his wife, Judy, and three children.

In addition, we have received word of the deaths of the following individuals:

DR. NELSON D. GOLDBERG, Minneapolis, died December 19 at age 68. Goldberg was a professor of biochemistry at the University of Minnesota for 35 years. Upon his retirement in May 1999, he was honored with a lectureship in his name and a doctorate of science in honor of his distinguished body of work. He is survived by his wife, Marjorie, and two sons.

DR. JOHN (JACK) R. GORDON, Minneapolis, died March 17 at age 77. Gordon was a professor of anesthesiology at the University of Minnesota. He completed his surgical residency in 1955 and was on staff until he retired in 1985. During his tenure, he served as president of the Minnesota Society of Anesthesia and was a member of the American Board of Anesthesiology, Inc. He is survived by his wife, Colleen, and six children.

KENNETH B. HEGGENHAUGEN, Minnetonka, Minnesota, died August 25 at age 90. Ken and his late wife, Helen, both University graduates, were long-time friends of the Medical School. Their gift of \$1 million to the Minnesota Medical Foundation led to the establishment of the Hegggenhaugen Conference Center at the McNamara Alumni Center, University of Minnesota Gateway.

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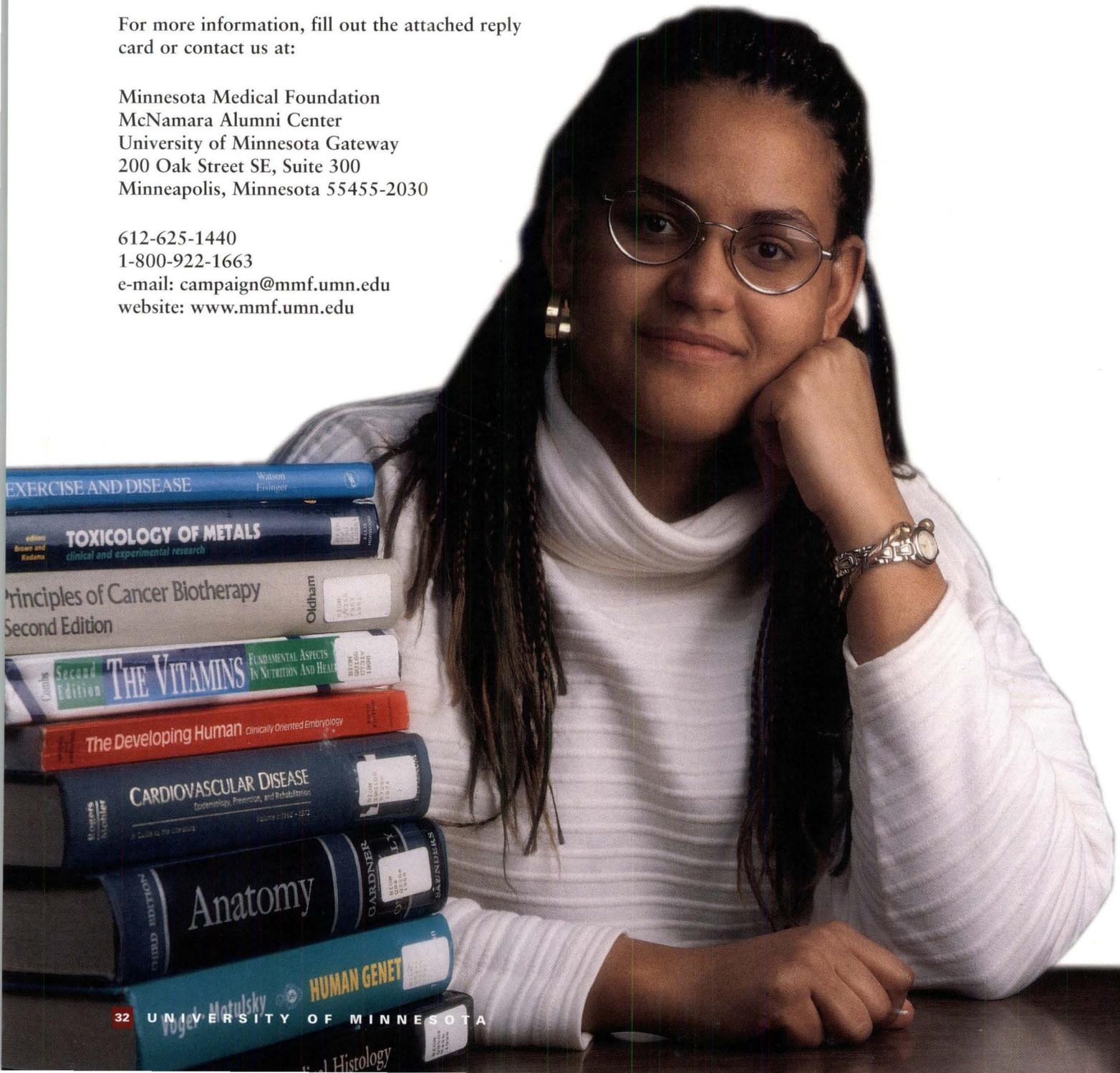
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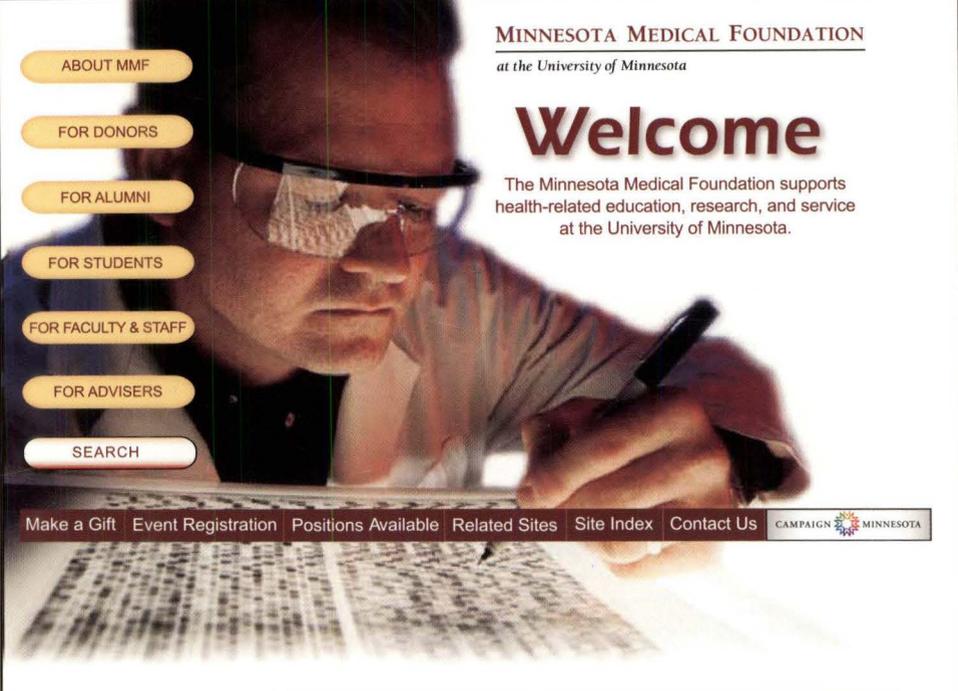
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