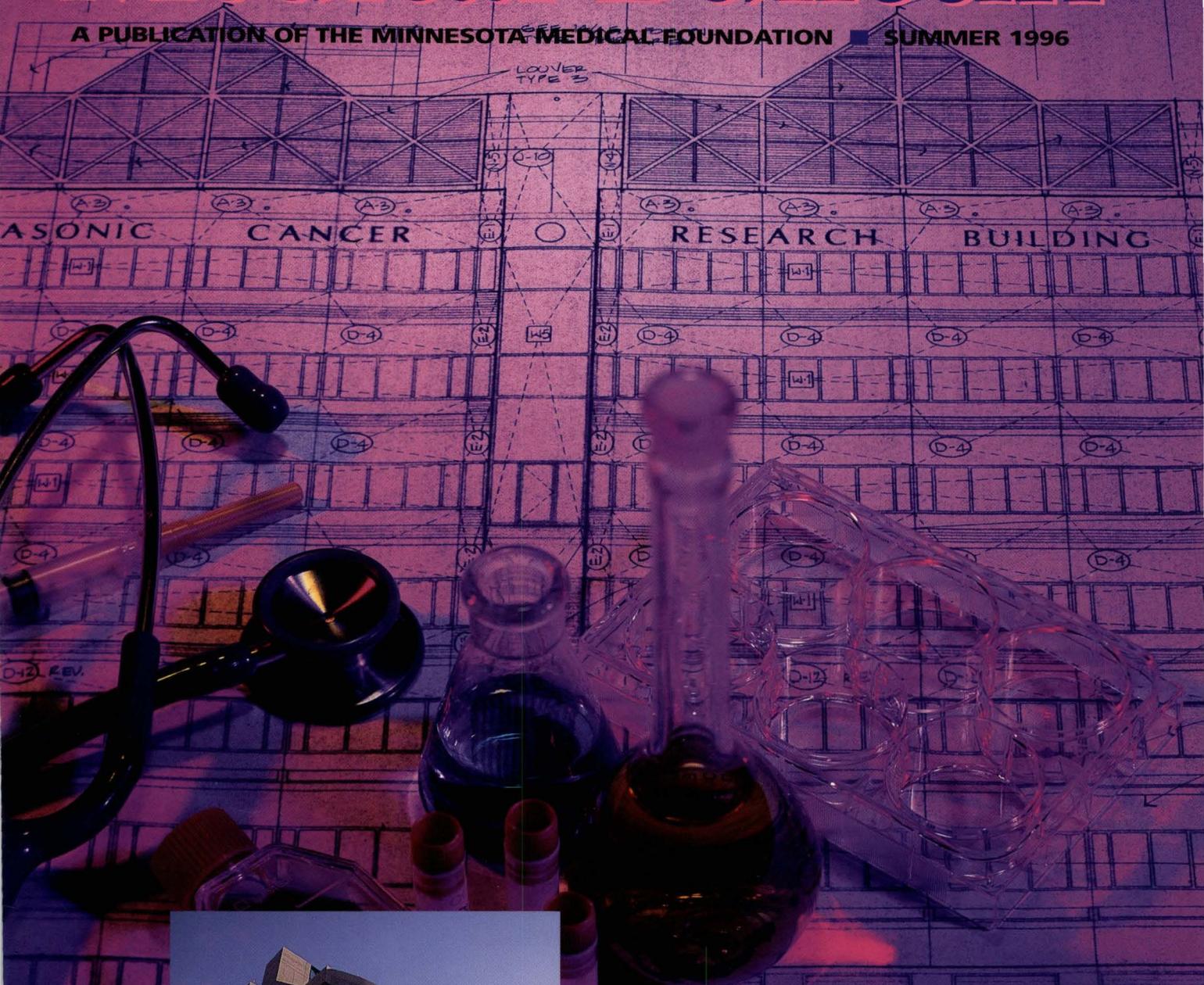


University of Minnesota

Medical Bulletin

A PUBLICATION OF THE MINNESOTA MEDICAL FOUNDATION ■ SUMMER 1996



**The Masonic Cancer
Research Building:
Unlocking the
Mysteries of Cancer**

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Staff:

Jean Murray, Editor; Jodi Ohlsen Read, Associate Editor; Mark Marshall, Alumni Relations Director; Brad Choate, President and CEO.

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On the cover:

The Masonic Cancer Research Building has been completed, enhancing collaboration between faculty in many areas of cancer research. Photo by Tim Rummelhoff.



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Summer 1996

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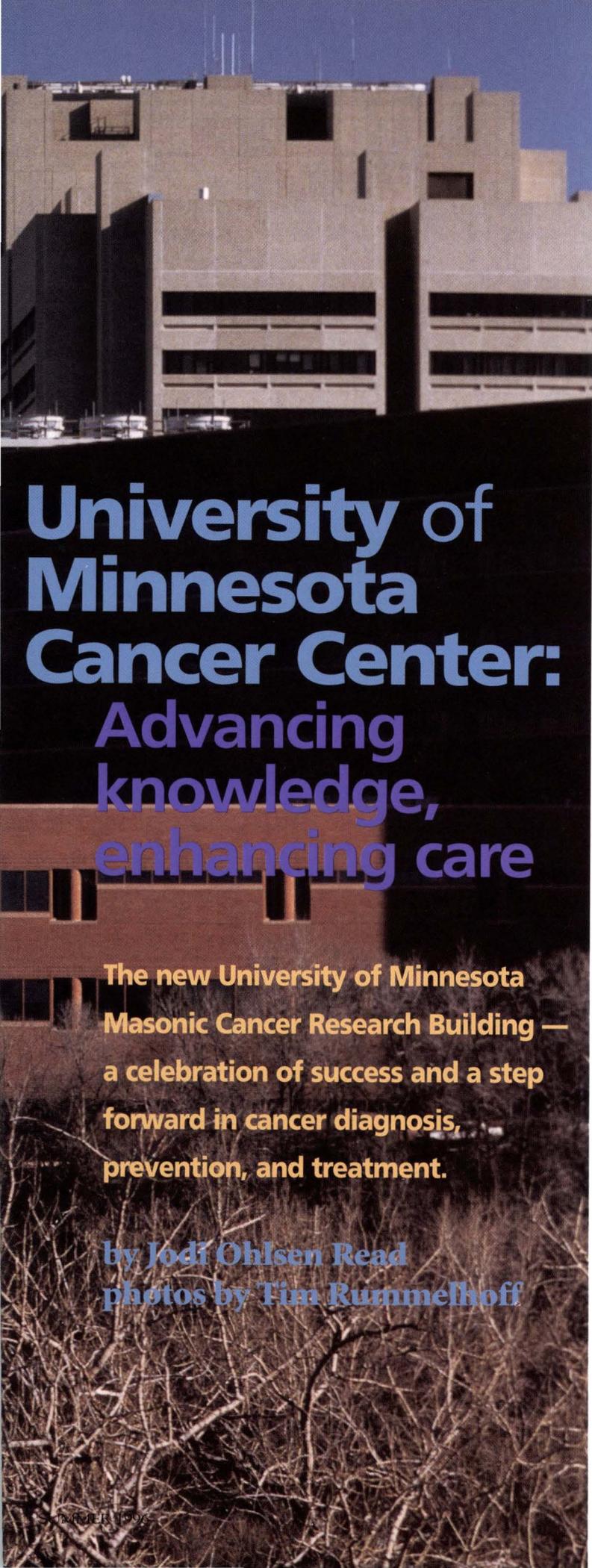
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MASONIC CANCER

RESEARCH BUILDING



University of Minnesota Cancer Center: Advancing knowledge, enhancing care

The new University of Minnesota
Masonic Cancer Research Building —
a celebration of success and a step
forward in cancer diagnosis,
prevention, and treatment.

by Jodi Ohlsen Read
photos by Tim Rummelhoff

“This unique facility will help some of the best and brightest minds in cancer research work together in ways never before possible,” says Dr. John Kersey, director of the University of Minnesota Cancer Center. The excitement is nearly tangible as University of Minnesota researchers explore their new lab spaces and prepare to move into the Masonic Cancer Research Building.

The Masonic Cancer Research Building, funded by \$20.4 million raised through the Minnesota Medical Foundation (MMF) from private donations, will house 30 laboratories for researchers who work together and independently toward the cure of cancer. Previously, these researchers were scattered around campus, without easy access to shared equipment and other resources.

For many, easily accessible resources can make an enormous difference in the time and money it takes to complete research. Along with labs, the research building contains offices and seminar rooms designed to encourage collaboration. Kersey and others hope that the new facility will help launch the Cancer Center to the forefront of national cancer research and treatment, where it will be recognized as a comprehensive, multidisciplinary resource.

Advancing knowledge

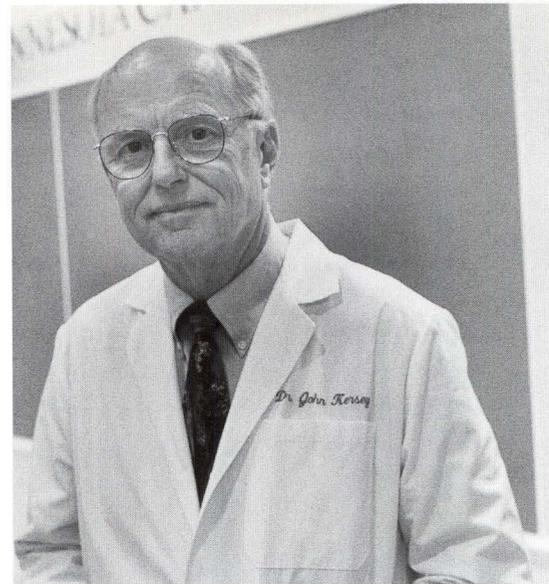
In many ways, the University of Minnesota is already established as a major cancer center. Since 1911, the University has been treating cancer patients and is responsible for numerous improvements in diagnosis and treatment (see sidebar).

Currently, more than 200 University faculty conduct basic and clinical cancer research in areas including prevention, genetics, cell biology and immunology, transplant biology, hematologic malignancies, solid tumors, and experimental therapeutics. The physicians and scientists represent medical oncology, gynecologic oncology, head and

neck oncology, pediatric oncology, bone marrow transplantation, surgery, laboratory medicine, pathology, and public health. A national and international leader, the University has been dedicated to understanding the causes of cancer and improving prevention, detection, and treatment.

Although cancer, once considered nearly a death sentence, is now often manageable and even curable, there is still much progress to be made. Cancer is predicted to be the most common cause of death by the year 2000. To further the fight, University Cancer Center researchers are striving to better understand the intricacies of cancer and to develop new preventions and treatments.

As Kersey explains, the Cancer Center's goal is to create a collaborative environment to help



Dr. John Kersey, Cancer Center director.

advance knowledge about cancer — what causes it, how it can be better prevented and detected, and how treatment for cancer patients can be improved. Then, that information will be shared with other scientists, health care professionals and students, and the community.

Celebrating success

Many noteworthy advances have been achieved by University Cancer Center faculty.

- The University of Minnesota was a pioneer in chemoprevention and dietary prevention of cancer. The University is also noted for the discovery of cancer-preventing qualities of many foods.
- University scientists developed a method of detecting leukemia cells in the blood and bone marrow of patients in remission, which dramatically increased detection capabilities. Early detection is critical to higher survival rates.
- The Pediatric Oncology Division has made major contributions, helping increase the survival rate for children's cancer from 10 percent in 1959 to the current 70 percent.
- The Medical School was a pioneer in establishing medical oncology as a formal discipline. Related research has boosted cancer survival rates and improved cancer patients' quality of life.
- The Women's Cancer Center records the highest survival rates in the United States for women with advanced ovarian cancer, and it also ranks among the leaders for cervical and vulvar cancer treatment.
- Cancer Center epidemiologists have linked breast cancer to body fat distribution and have made significant contributions to research on smoking cessation and the addictive nature of smoking.
- The Bone Marrow Transplantation Program was the first, worldwide, to perform successful transplants for immune deficiency and lymphoma, and continues to be a leader in the field. The Cancer Center's Bone and Soft Tissue Tumor Center is nationally renowned. Working closely with other specialties, nearly 100 cases of this rare form of cancer are treated annually.

Building for the future

In the late 1980s, the University Medical School and the University Hospital and Clinic proposed creating a comprehensive cancer research center to ensure continued progress in cancer research and to establish the University as a national cancer center. The Minnesota Medical Foundation played a significant role in coordinating the initial fund-raising effort, which began in 1988. By 1991, nearly \$20 million had been raised. The Fund for the University of Minnesota Cancer Center (UCAN) was then officially established to help reach the goal of \$30 million to support cancer research, including construction of a new research facility.

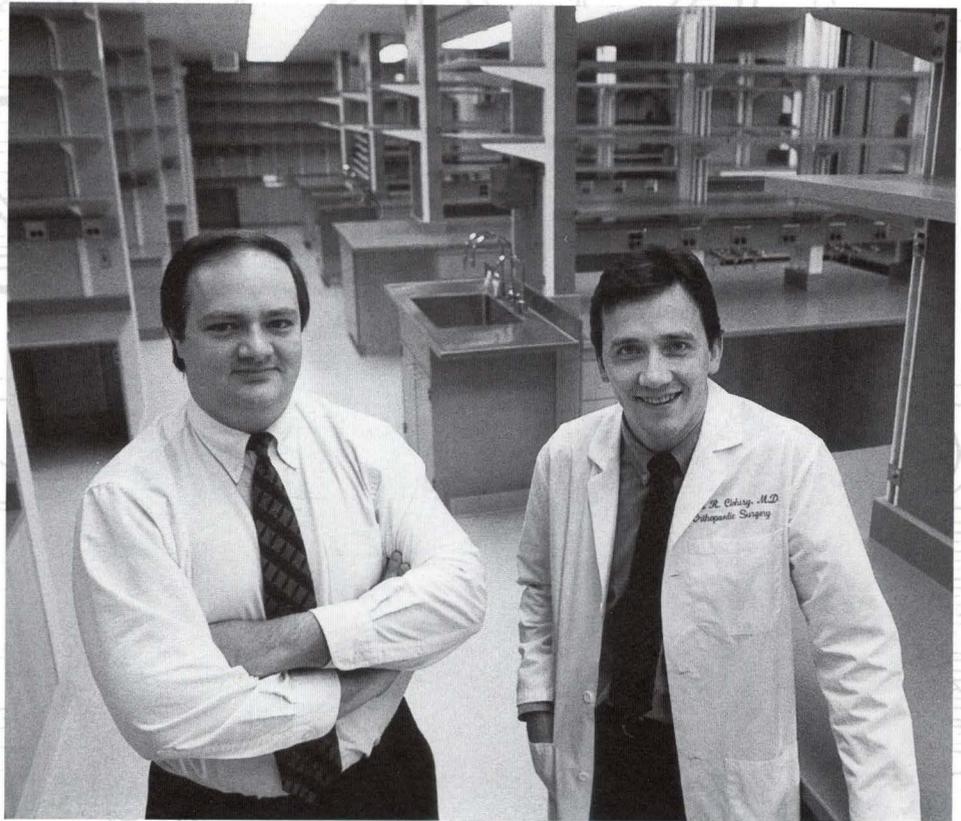
Winston "Win" Wallin, former chair of the board and CEO of Medtronic, Inc., was named chair of the campaign. Thanks to the efforts of Wallin and many supporters — University and community leaders, faculty and non-faculty physicians,

business professionals, and private citizens — more than \$30.5 million had been raised by 1994.

Approximately \$20 million was used for the construction of the new Masonic Cancer Research Building and the remaining \$10 million will be used to recruit new faculty. The building is named in honor of a \$5 million gift from the Masons of Minnesota and for their impressive history of giving. Since 1956, the Masons of Minnesota have contributed nearly \$17 million to the University for cancer research.

Working together

As the doors open, teams of researchers will begin setting up labs and discovering newly accessible resources. Two investigators recently learned that not only are they neighbors, they also study similar areas of bone research.



Dr. Denis Clohisy, assistant professor of orthopaedic surgery, and Dr. Paul Orchard, assistant professor of pediatrics and member of the bone marrow transplant team, were touring the labs and began casually discussing their projects. “I never even knew what he did,” says Clohisy, with a laugh. “On the tour we started talking and, not only are our labs physically connected, he’s also doing work that is related to my research.”

Orchard elaborates, “Denis is interested in why some tumors can metastasize to bone by carving out areas within the bone and growing into the space. And I am working on a disorder called osteopetrosis, where cells that normally create spaces within the bone don’t work. The result is bones that are basically solid, without a space for the bone marrow.

“It just so happens that the models Denis uses for his experiments are the type of models I need to test our theories about osteopetrosis.” In turn, Orchard provides support with the molecular work, allowing Clohisy to more easily study a specific gene that may be important in allowing

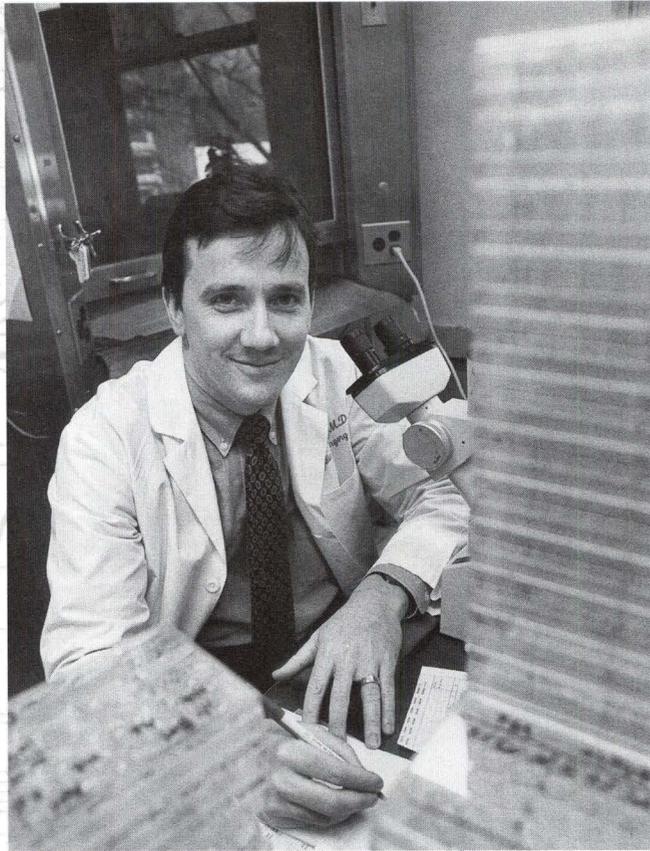
tumors like breast cancer to grow in bone.

Now the two are officially working together on a project to study the cell that is important in eroding bone, and the genes that may control it. “The more we understand, the more we can apply the information to other diseases, such as osteopetrosis and osteoporosis,” says Clohisy.

Both researchers are already impressed with the potential for collaboration that the new facility offers. “We can’t do as much on our own,” says Orchard. Clohisy continues, “Working in adjoining labs will definitely facilitate our work. The people that work in our labs can exchange ideas, and problem solve together. It helps when people better understand what they are working on. And, we can more efficiently collaborate. We’ll be sharing incubators, microscopes, and other equipment. It helps us better invest the resources we have.”

Clohisy and Orchard are but one example of the type of collaboration that is expected. Although about 30 researchers will have lab space in the Masonic Cancer Research Building, the University Cancer Center extends beyond the physical boundaries of the new building.

Drs. Paul Orchard and Denis Clohisy in their new facilities.



Dr. Denis Clohisy, assistant professor of orthopaedic surgery.

who takes a brief family history and explains the two appointments involved. “At the first appointment, we take a thorough family history, going back about three generations,” says Ahrens. “Then we discuss family issues related to the cancer. For example, sometimes the patient may be the same age as their parent was when diagnosed with cancer.”

Once the family history is established, a list is made of related medical charts needed to document the cancers. “It’s very important for us to be able to identify exactly what kind of cancer is in a family’s pattern so we can predict the risk for people in that family,” says Dr. Tom Amatruda, assistant professor of medicine and medical oncologist.

The medical records, medical history, and family history are all reviewed by a team that includes a genetic counselor (Mary Ahrens), medical oncologist (Dr. Thomas Amatruda), cancer epidemiologist (Dr. Thomas Sellers), medical geneticist (Dr. Richard King), molecular pathologist (Dr. Ronald McGlennen), clinic and research psychologist (Dr. Susan Petzel), and a pathologist (Dr. Susan Bartow). At the conference, the specialists discuss the information and develop a plan, or assessment, for the patient.

At the second appointment, the patient is given the information decided upon by the group. “We discuss what the chance is of this patient developing cancer and what kind,” says Ahrens. “We talk about the kinds of things the patient can do to reduce their cancer risk and what kind of screening we recommend. We review the potential risks and benefits of molecular testing for specific inherited mutations of cancer susceptibility genes and we also discuss how the assessment compares with what the patient thought their risk was initially.”

This type of program is important, says Amatruda, because the information can be used to directly prevent illness. People may benefit from early screening and early detection of cancer. “The main types of cancers we treat in the clinic

The majority of the current 240 faculty will not be moving, yet that doesn’t prevent other types of exceptional teamwork.

Enhancing Care

In patient care, specialists from several areas often work together. “The team approach is essential in modern treatment,” says Kersey. “To provide the best treatment you need a multidisciplinary team — people from various disciplines working together. No longer can one specialist do it alone. It has to involve nurses, physicians, scientists, all types of specialists.”

This is one of the University’s major strengths, one that sets it apart from many other medical centers. One example of a group of experts providing exceptional patient care can be found in the Familial Cancer Clinic. The clinic assesses family risk and makes recommendations for long-term monitoring and intervention for people who have a family history of cancer or who have a cancer in which genetic factors may be important.

A patient who calls the clinic will usually speak with Mary Ahrens, M.S., genetic counselor,

are breast cancer, colon cancer, ovarian cancer, and melanomas. With these, if you detect the cancer early, most times you can cure it," says Amatruda. "If we can identify who's at risk we might be able to substantially reduce their risk."

The Familial Cancer Clinic has been a model for several similar clinics. In the future, more clinics may develop for other adult onset diseases, like heart disease.

The team approach used in the Familial Cancer Clinic and other areas of patient care is just one attribute of the University's patient care program. The University of Minnesota Cancer Center cares for more than 2,000 new patients a year. Along with the latest innovations in prevention, diagnosis, and treatment, patients also have access to support services and the opportunity to participate in clinical research.

Patient quality of life is maintained through several programs, including a palliative care program offered to help patients develop safe and effective pain relief regimens. Through this program, the University Hospice also offers care to dying patients. To prepare other patients for home care, the Patient Learning Center shows them how to perform medical tasks they'll need to know when they go home. This center is the first of its kind and is a model for other centers worldwide.

The University's exceptional patient care is inseparable from the research programs. Outcomes that benefit the patients directly often begin in the research laboratory. This combination is another attribute that makes the University Cancer Center stand apart.

Moving forward

"We have an exceptional ability to develop new approaches to treatment and then bring those into the clinical setting where they can be useful

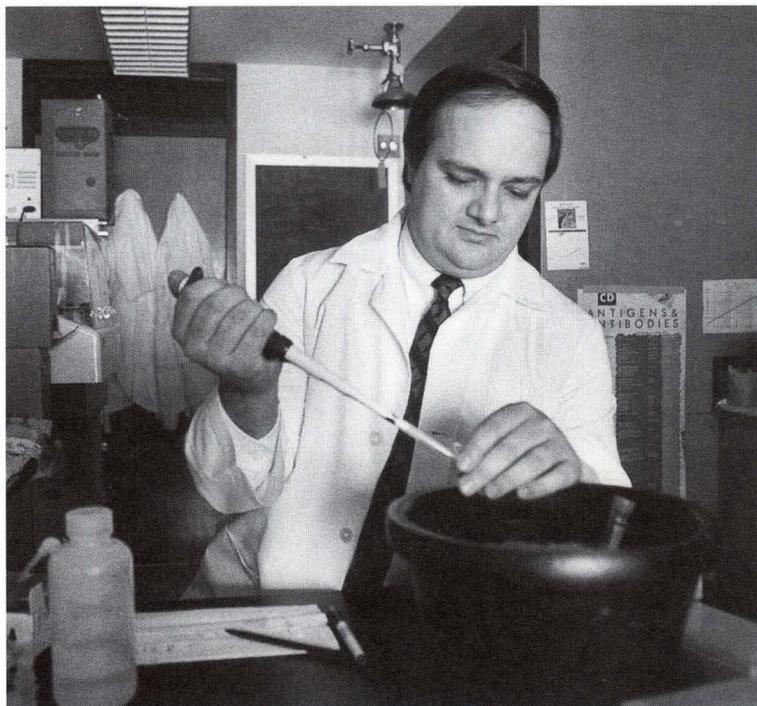
Prominent scientist joins Cancer Center

Approximately \$10 million will be used to recruit new faculty and establish endowed chairs. Earnings from the endowed chairs will be used to help fund chairholders' research. Most recently the University of Minnesota Cancer Center recruited Stephen S. Hecht, Ph.D., as holder of the Winston and Maxine Wallin Land Grant Chair in Cancer Prevention.

Hecht is an internationally recognized expert on the mechanism by which substances in tobacco products cause cancer of the lungs and other organs. Since 1987, he has been director of research for the American Health Foundation, a New York based non-profit organization dedicated to the prevention of cancer.

"I think this is a fantastic opportunity to work with other investigators to strengthen the University of Minnesota Cancer Center's prevention program," says Hecht. "I also am impressed with the generous support of the people of Minnesota, particularly the Wallins, and the University's commitment to the Cancer Center."

A gift from Winston and Maxine Wallin to MMF provided the funds for this endowed chair to support research into cancer prevention as part of the \$30.5 million capital campaign.



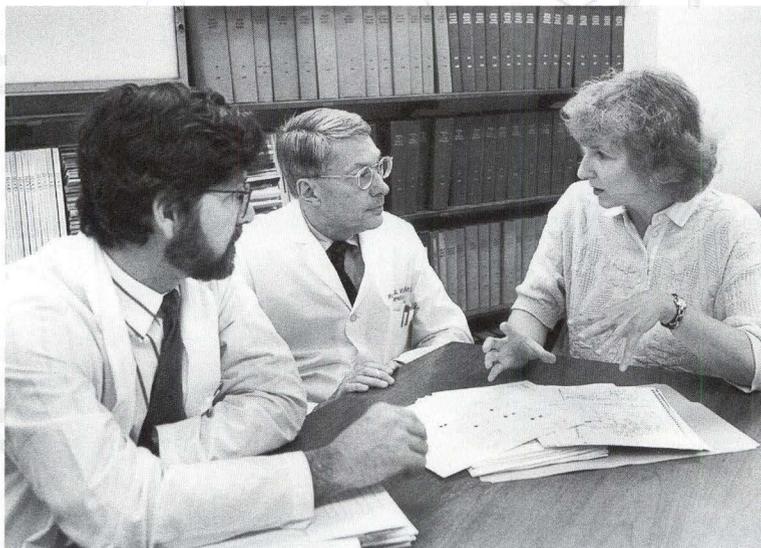
Dr. Paul Orchard, assistant professor of pediatrics and member of the bone marrow transplant team.

to patients," says Kersey. "We are unique. We've combined basic science, population science, and clinic science and care, all within a single institution."

He is proud of the University Cancer Center's achievements and is optimistic about its future. With the new Masonic Cancer Research Building and the Cancer Center's highly regarded research and

patient care programs, Kersey is confident that the Center will become a designated National Cancer Institute (NCI) cancer center. The University already receives nearly \$20 million in National Institutes of Health grants per year for cancer research, but the NCI designation could help the Cancer Center achieve greater national prominence.

Dr. Tom Amatruda, Dr. Richard King and Mary Ahrens discuss a patient case.



Becoming an NCI cancer center would provide access to federal research dollars reserved for such centers. Already, the University Cancer Center is planning to apply for an NCI cancer center core grant, which generally ranges from \$1 million to \$7 million.

These grants are particularly useful because they can support a number of projects at one time. In addition, the designation brings an added prestige that helps draw money from other sources.

With the new Masonic Cancer Research Building, the increased ability to draw top scientists, and the continued excellence in cancer research and treatment, the Cancer Center is primed for success. The University will continue to develop as an outstanding, comprehensive cancer center — a resource that people will seek out first when they need complete, quality cancer care. ■

What's inside?

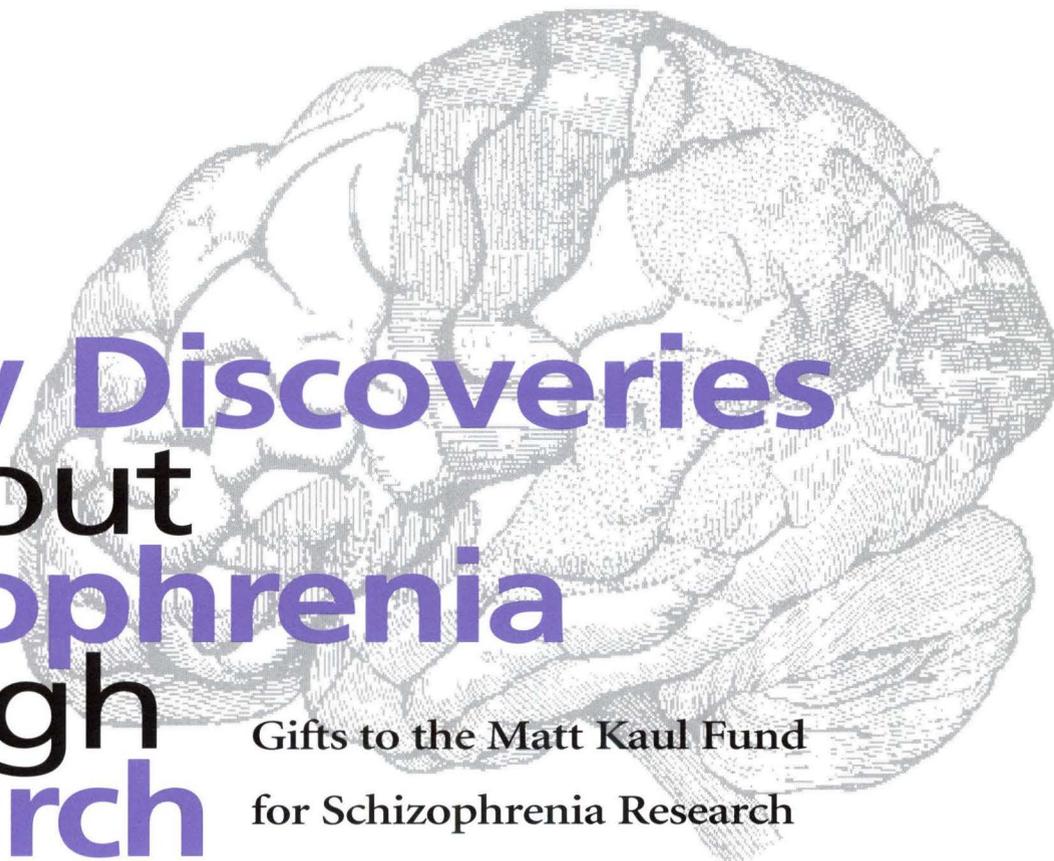
The Masonic Cancer Research Building, containing approximately 82,000 gross square feet, is designed to house approximately 30 cancer scientists and their research staffs. It has principal-investigator laboratories, user-specific shared core labs, and service-shared core facilities. It also includes conference rooms, a seminar room, and office space for up to 31 faculty.

The core facilities and most advanced equipment are located in the center of each floor for convenient access from the laboratories. In addition, the flexible modular design of the laboratories allows scientists to quickly and cost-effectively alter their work space as needs change. The contiguous laboratory spaces also facilitate interaction and collaboration and allow for shared use of equipment.

The Masonic Cancer Research Building is located on the East Bank of the University of Minnesota, Minneapolis campus. It was constructed as a four-story building on top of the Dwan Variety Cardiovascular Research Center.

University of Minnesota Cancer Center's Masonic Cancer Research Building Grand Opening Celebration

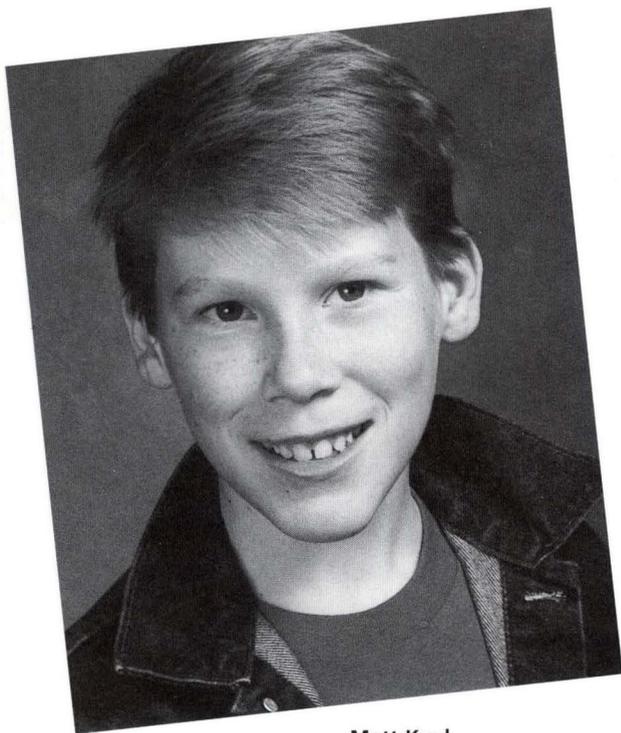
A grand opening celebration of the new research building will be held Saturday, June 15, at the University River Flats park near the East Bank of the University of Minnesota Minneapolis campus. Cocktails and tours of the new building begin at 5:30 p.m. and dinner will be served in a tent on the flats at 7:00 p.m. Music will be provided by the Dixieland band, The Mouldy Figs. Tickets are \$100 per person or \$800 per table. Proceeds will benefit the University of Minnesota Cancer Center. For more information, call 612-625-8455.



New Discoveries about Schizophrenia through Research

Gifts to the Matt Kaul Fund
for Schizophrenia Research
advance pioneering studies.

by Jean Murray



Matt Kaul

It's been four years since 19-year-old Matt Kaul took his life, unable to cope any longer with the terrifying hallucinations, irrational fears, and other horrors of schizophrenia (*Fall 1992 Medical Bulletin*). Since that time, significant strides have been made in schizophrenia research, due in part to donations to the Matt Kaul Fund for Schizophrenia Research at the Minnesota Medical Foundation.

John Kaul, Matt's father, organized a benefit concert as a way to fight back against the disease that had haunted his son for three years. The November 1992 event raised \$46,000 for schizophrenia research being conducted by Dr. Jose Pardo and his colleagues at the VA Medical Center's Psychiatry PET Unit. This research recently brought Pardo a Young Investigator Award from the National Alliance for Research on Schizophrenia and Depression (NARSAD) in the amount of \$60,000.

"I'm so pleased that our investment in the University of Minnesota is paying big dividends," says Kaul. "All the extraordinary people who worked so hard to make the benefit the critical and financial success it was are going to feel their



exertions have been well rewarded. Our instinct, at the time we were putting this all together, was that we should be supporting basic research performed right here in Minnesota.”

Support from the Matt Kaul Fund generated a matching grant from the Scottish Rite Schizophrenia Research Fund for the purchase of a Silicon Graphics Workstation. High-performance workstations are critical for analyzing the complex structural and functional relationships in brain research. With the Silicon Graphics design, brain images can be rendered and viewed in 3D using specialized stereo goggles.

Focus on language

Pardo and his colleagues have completed a series of experiments addressing how schizophrenia patients process language information, and the research is continuing. These are the first PET (positron emission tomography) imaging studies in this country to compare language processing in normal control subjects and patients with schizophrenia. The research is significant because schizophrenia patients frequently experience auditory hallucinations involving language and disorganization of thinking.

Pardo explains that the PET camera is able to show blood flow to different areas of the brain. Increased blood flow indicates increased brain activity.

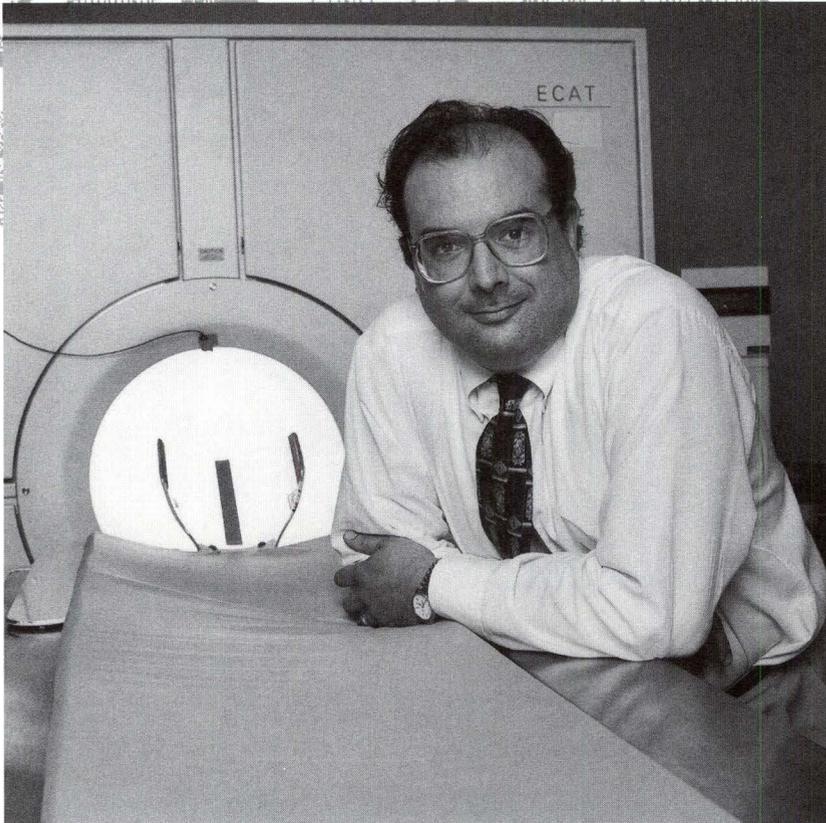
“A lot is known about how we process single words,” says Pardo, “so it was a good place to start. We know what the brain does in normal subjects when they look at one word. Even the use of a single word — depending on the instructions you give a person — can turn on many high-level brain activities.”

In Pardo’s study, subjects first simply look at a noun, such as “cake,” which turns on the areas of vision in the brain. The second task is to read the word, which is related to motor output and articulation. Finally, the highest task level is to generate a verb related to the noun, such as “cut” or “bake” related to the word cake. (Scans were also initially taken of subjects at rest with their eyes closed, to create a simple reference condition.)

For patients with schizophrenia, says Pardo, the third task — making verbs — is quite difficult. “Some weren’t able to do it and others produced an impoverished set of responses,” he says.

The information provided by the brain scans as subjects performed these tasks is dramatic.

“Even in the simple tasks, like looking at the words, the patients



Jose Pardo, M.D., director of the VA Medical Center's Psychiatry PET Unit, with the PET imaging machine.

with schizophrenia are turning on very different brain systems,” says Pardo. “And when you ask them to do higher-level tasks, like making verbs, they’ve already used their capacity and can’t go any further.”

Pardo and his colleague, Dr. Humberto Temporini, explain that patients with schizophrenia activate language areas during reading just as normal controls do, but they also activate the anterior cingulate cortex, a brain region involved with attention. Unlike normal subjects, the schizophrenic patients use effortful attention during reading aloud of

simple, common nouns, a task which is performed automatically by controls.

During language tasks that require normal anterior cingulate function in controls, such as making the verbs, the schizophrenic patients decompensate in performance, and the cerebral activity becomes disorganized. According to Pardo, the data suggest that while the cognitive structure remains preserved in schizophrenia, the orderly regulation and selection of cognitive functions essential for task execution — particularly for tasks which demand attention — are significantly impaired.

Explaining colorful slides on a screen, Pardo says, “With the normal subjects, you can see clearly that when it comes to generating the verbs there is something going on on the left side of the brain which isn’t going on with the schizophrenic patients. There’s much more activity with the controls than with the patients.”

But in the simplest task of looking, Pardo describes areas in the back of the brain — in the “what” pathway — that are being turned on by the patients with schizophrenia but not by the controls. “We want to know what happens in patients with schizophrenia when you have them look at an object, or name an object, because presumably they are doing something radically different than we are,” he says. “We have to ask what’s causing that. And if we can find out what controls it, then we can target therapies at that particular area.”

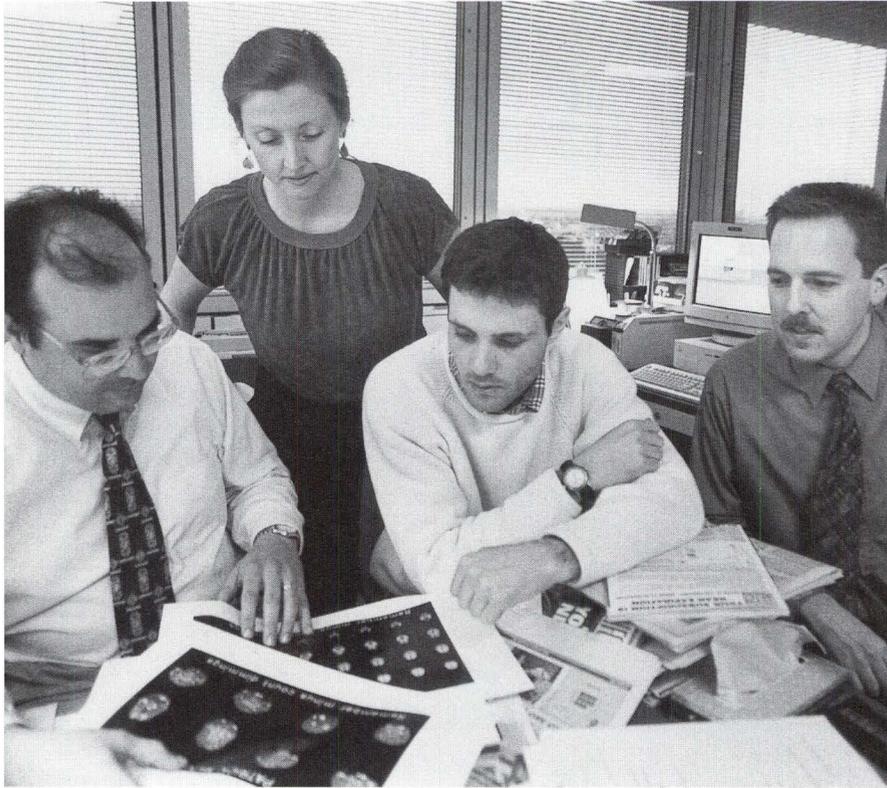
Temporini says, “When we compared the controls and the schizophrenics when they were just looking at words, we see areas that are more active in the schizophrenics. We know that they understand the word they are seeing, such as “house,” but they are activating areas that the controls are not activating. The difference in blood flow, which shows the difference in activation, is tremendous between those two groups.”

There are some reasons for optimism in the research. “One of the good things we’ve seen,” says Pardo, “is that the brain of schizophrenics



Photos by Tim Rummelhoff

The team working on the schizophrenia research project includes, from left, Humberto Temporini, M.D., graduate student in the neurosciences program from Argentina who is analyzing the data and assisting with PET scans; Patricia Pardo, Ph.D., cognitive psychologist who is studying schizophrenia and attention and has just completed a study involving twins with schizophrenia; Jose Pardo, M.D., director of the VA Medical Center’s Psychiatry PET Unit; Joel Lee, MSEE, computer scientist who develops custom software for displaying and analyzing the images; and Jonathan Uecker, M.D., staff psychiatrist at the VAMC who performs diagnostic interviews on patients and evaluates symptoms.



Jose Pardo, M.D., Patricia Pardo, Ph.D., Humberto Temporini, M.D., and Joel Lee, MSEE, review brain images of schizophrenia patients.

“We have paid my son Matt a great tribute, but we have also significantly increased the body of knowledge that we have about this illness.”

—John Kaul

can activate normally. It's not like Alzheimer's patients where there's just nothing there to turn on, no activity in that area. Schizophrenics can turn it on, but they're not regulating it right. Nothing's missing, it's just not kicking in at the right time.”

Temporini says that one of their goals is to use the results of the research to better characterize the disease and eventually get a better diagnosis. “We want to have a reliable way to diagnose schizophrenia,” he says. He explains that many diseases can be confused with schizophrenia, while sometimes people who are really schizophrenic are given incorrect diagnoses. “People can be treated for a number of years for something they do not have,” he says.

Symptoms of schizophrenia

Pardo and his team say that one or more of these symptoms are a cause for concern and a reason to seek psychiatric evaluation:

1. Auditory hallucinations. Typically a voice or voices are heard which keep a running commentary on the patient's thoughts

and behaviors. Often, the voices seem menacing and threatening to the patient. For example, the voices might discuss how the FBI is monitoring the patient to gather information that in some way may lead to prosecution. Hallucinations occur in 54 percent of schizophrenics.

2. Bizarre delusions. These are false, fixed beliefs with absurd content which have no basis in fact. For example, belief that one is being directly controlled through an external force, belief that one can send or receive thoughts by broadcasting, and belief that thoughts are being inserted into one's mind. Other common delusions include false, fixed beliefs in one's grandiosity; the idea that strange changes are occurring in one's body, such as implanted electrodes in the brain; and paranoia — thinking that people intend to do harm without basis in fact. Delusions occur in 60 percent of schizophrenics.

3. Disturbances in thinking, language, and behavior. Statements do not follow logically, thinking is disorganized, words are invented, and inappropriate silly behavior may occur.

4. A marked change in the level of functioning in such areas as work, social relations, and self-care may develop. Schizophrenics may have lack of motivation and lack of energy that is often confused with laziness. They may have trouble expressing emotions, and they may

experience depression. Social withdrawal may occur as a result of the depression.

In seeking to diagnose schizophrenia, Pardo notes that it is important to specifically exclude conditions which can share some of these symptoms, such as drug abuse and mania.

Targeting the young

As with Matt Kaul, schizophrenia frequently appears during the teen years. The mean age of onset is 20. Pardo reports that 1 percent of the population — one in every 100 individuals — suffers from schizophrenia, a number that is fairly constant throughout the world. And the ripple effect on families, friends, and colleagues greatly multiplies the number of people touched by the disease.

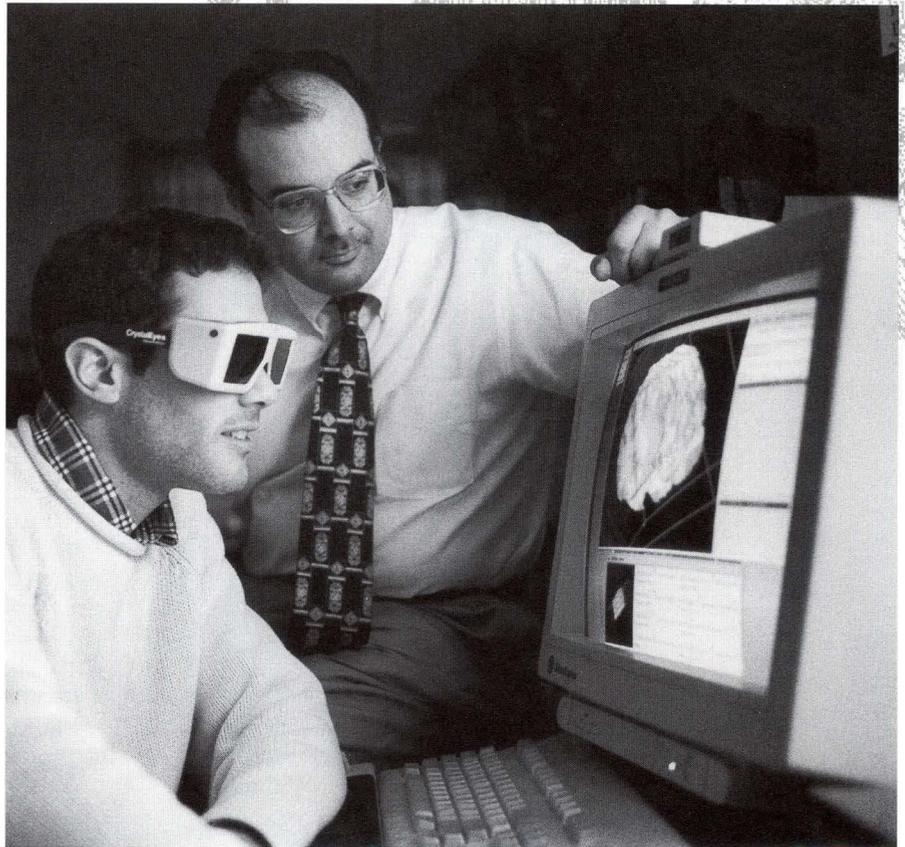
A fourth of schizophrenia patients attempt suicide — one in ten succeeds. Treatment methods are improving, however, and many patients are able to function well on medication.

But for a disease that costs the United States billions of dollars a year in treatment, social services, and lost wages, research funding lags far behind. Pardo states that funding by the National Institutes of Health for schizophrenia research is \$10 a year per patient, compared to \$103 for heart disease, \$161 for multiple sclerosis, \$203 for cancer, and \$10,000 for AIDS.

Expanded research into both causes and treatment of schizophrenia is critical if progress is to continue in the fight against this disease. John Kaul agrees.

"I would like to thank Dr. Pardo and everyone else who has been involved in contributing money and talent to this project," he says. "We have paid my son Matt a great tribute, but we have also significantly increased the body of knowledge that we have about this illness. I believe that this basic research will result in better diagnosis and treatment of schizophrenia. Our successes in the coming years will reduce the suffering of victims and their families. I hope people will continue to support this cause."

For more information about the Matt Kaul Fund for Schizophrenia Research, call the Minnesota Medical Foundation at 612-625-1440 or 1-800-1MME. ■



Drs. Humberto Temporini and Jose Pardo observe brain images at the Silicon Graphics Workstation.

The Luigi Taddeini Scholarship

by Jean Murray



Dr. Luigi Taddeini

Colleagues, friends, and family remember Dr. Luigi Taddeini for his leadership skills, his compassion for others, and for his excellence as a physician and teacher. They also remember his honesty and integrity, his intellectual curiosity, and the guiding influence he had on the lives of his four children. Taddeini died of cancer in 1990 at age 60.

In his memory, Taddeini's wife, Judy, and the family established the Luigi Taddeini Scholarship at the Minnesota Medical Foundation to provide financial help to medical students at the University of Minnesota.

"It is so special for my family and me to come to the MMF scholarship receptions and see the students who receive the scholarships," says Judy Taddeini.

Taddeini was chairman of the board and president of the Ramsey Clinic in St. Paul, where he had also served as chief of internal medicine and the oncology-hematology section. He joined the clinic in 1967, and was elected president of the 170-doctor group in 1987. Ramsey Clinic is affiliated with St. Paul-Ramsey Medical Center, and has branches throughout Ramsey County and in western Wisconsin.

The clinic provides much of the medical care for the indigent in Ramsey County, and Taddeini was instrumental in persuading the Ramsey County Board to allocate more money for indigent care by Ramsey Clinic physicians.

"Luigi was one of those rare individuals who caused everyone around him to be a little better than they might

have been," said a colleague. "His personal and human qualities were his forte."

St. Paul-Ramsey is affiliated with the University of Minnesota Medical School as a teaching hospital. Taddeini was named a full professor at the University in 1977.

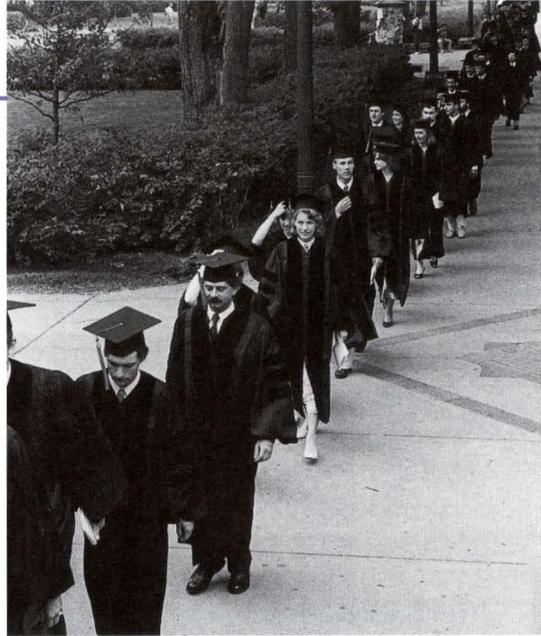
"Dr. Taddeini was imbued with a love of learning and was a true academic physician," said another colleague. "He enjoyed the honor and respect of his peers in the community of scholars. His achievements in research and teaching gained him a regular appointment as full professor in the Medical School, and his students, residents, and fellows remember him as an enthusiastic pedagogue and skilled clinician. His intellectual curiosity was not confined to medicine but included art, opera, music, and history as well."

Taddeini was born in Rome and received his medical degree from the University of Rome in 1954. He was a resident at hospitals in Rome, Ottawa, and New York, and came to Minnesota in 1960 to become chief resident in internal medicine at the University of Minnesota Hospital.

In addition to his duties at Ramsey Clinic, Taddeini was a member of the board of directors of Ramsey HealthCare, Inc., St. Paul-Ramsey Medical Center, Ramsey Foundation, and was chairman of the board of Integrated Health Services of St. Paul. He was also on the board of the Minnesota Association of Public Teaching Hospitals.

Scott Gunn was the 1995 recipient of the Luigi Taddeini Scholarship. A Sioux Falls, South Dakota, native, Gunn is a member of the 1996 Medical School graduating class. His specialty is emergency medicine, and he will serve his residency at Hennepin County Medical Center. "Emergency medicine lets me work with people of all ages and with all types of problems," says Gunn.

With a wife and two small children at home, and with the overwhelming debt typical of many medical students, Gunn says the Taddeini Scholarship was "extremely useful. We are so grateful for any help we can get." ■



A Critical Need

There is a critical need for scholarships for medical students. Tuition and fees for first-year, Minnesota-resident students now exceed \$16,000 with total annual budgets of approximately \$27,000. Tuition and fees for non-residents are more than \$31,000, with total budgets reaching \$42,000.

In order to maintain the high quality of physicians graduating from the University of Minnesota Medical Schools, the Minnesota Medical Foundation has made scholarship support a top priority. The MMF board of trustees is committed to increasing scholarship support to medical students by 20 percent annually by raising a minimum of \$3 million to add to scholarship endowments by the end of fiscal year 1998.

In the past year, MMF presented 235 individual scholarships totaling \$290,550. In each issue of the *Medical Bulletin* we profile a scholarship currently given through the Minnesota Medical Foundation.

Brain Awareness Week brings neuroscience researchers, public together

These and many other questions were answered by University of Minnesota neuroscientists as more than 5,000 students from kindergarten through college level, and the general public, came to campus for Brain Awareness Week May 12-18.

Brain Awareness Week was dedicated to increasing public awareness about neuroscience and brain disorders. Activities included:

- hands-on, interactive demonstrations and projects for children in K-6
- demonstrations, mini-lectures, and laboratory tours for junior high and high school students
- a symposium each morning for college students and advanced high school students
- public lectures each evening on current topics in neuroscience
- tours of research laboratories
- demonstrations of principles showing insights into brain function

The emphasis of the week was on how brain research relates to health and disease in our society. New innovations in brain research by University scientists were explained through laboratory tours and demonstrations.

Topics of focus included the history and evolution of the neurosciences, molecular and developmental biology, neuroscience and society, health and the brain, knowledge of brain function, and computers and the brain.

In 1990 the United States Congress declared the 1990s the "Decade of the Brain." Neuroscience is one of the fastest-growing areas of biomedical research, with the University of Minnesota one of the leading institutions in brain research.

There are 80 faculty members from 24 departments in

How do nerve cells get wired together?

How real was Jurassic Park?

Is behavior inherited?

Does your dog or cat see color?

How does your brain tell your arms and legs how to move?

What is Alzheimer's disease and how are scientists trying to treat it?

six colleges (medicine, dentistry, pharmacy, liberal arts, veterinary medicine, and agriculture) involved in neuroscience at the University. They hold 190 National Institutes of Health (NIH) grants worth more than \$30 million a year. World-class research facilities include the Center for Magnetic Resonance Research, equipped with powerful MRIs which image thought patterns and biochemical activity in the brain; the Biomedical Imaging Processing Laboratory, where laser scanning confocal microscopy identifies transmitters and their receptors; and the Brain Sciences Center at the VA Medical Center, where electrical brain signal patterns are viewed on computer screens.

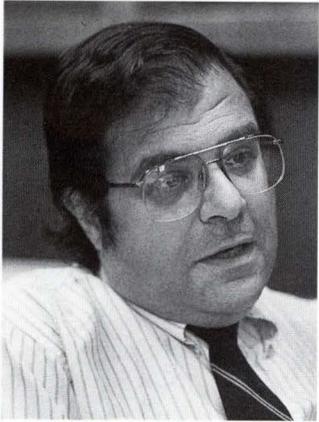
The University's neuroscience program is built around interdisciplinary efforts of faculty who share interests in particular areas of research, such as pain, vision, neuromotor control, behavior, brain development, hearing, cellular and molecular aspects, learning and cognition, and neuropathology.

Researchers are hoping to gain greater understanding of the biochemical mechanisms that enable nerve cells in the brain and throughout the body to transmit and receive messages, knowledge that can provide the basis for developing new drugs and other treatment strategies.

The Fall 1996 issue of the *University of Minnesota Medical Bulletin* will include expanded information about Brain Awareness Week and neuroscience research at the University. ■

Cerra named provost

Dr. Frank Cerra was named provost of the Academic Health Center April 15, following unanimous approval by the University's Board of Regents. President Nils Hasselmo consulted a wide range of constituents before recommending the Medical School dean as the successor to **Dr. William Brody**. The rapid leadership change followed Brody's announcement that he will become president of Johns Hopkins University no later than September 1. Until his departure, Brody will serve as assistant to Hasselmo, who said Brody had provided



Dr. Frank Cerra

“outstanding leadership at a time when it was needed.”

Medical School dean since May, Cerra has been on the surgery faculty since 1981, and served as interim Surgery Department chair from 1994 to 1995. Cerra is widely regarded by faculty and staff as a colleague who understands both faculty concerns and the broader issues facing the Academic Health Center. ■

Mueller pinpoints immune cell defect

An immune cell defect that makes some cells unable to defend themselves against foreign tissue is one step closer to being identified, thanks to research by **Dr. Dan Mueller**, assistant professor of medicine. Published in the March issue of *Science*, Mueller's research showed that the defect, called clonal anergy, knocks out two enzymes that help T cells respond to a foreign substance.

Exactly what the defect is and how it causes damage isn't known, but Mueller's work shows that the damage most likely occurs before the enzymes are turned on, rather than later in the immune response process. Normally, the enzymes help T cells produce interleukin-2 (IL-2), which enables the cell to recognize a foreign substance and clone itself into an army of cells that attack the substance. Once the defect is fully understood, it may be possible to induce it in certain types of T cells — those that go after a transplanted organ, for instance — without switching off T cells that protect against infectious diseases. ■

Goodman isolates tick-borne bacteria

In February, *Science* reported that **Dr. Jesse Goodman's** isolation of *Ehrlichia*, a tick-borne bacteria that causes a potentially fatal illness, will benefit research into other tick-borne diseases.

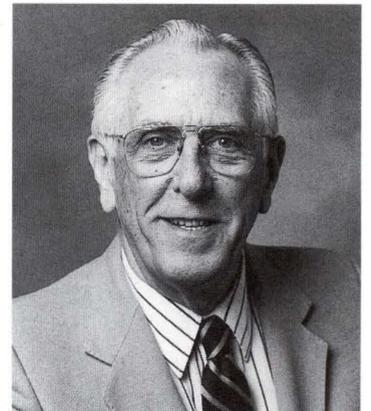
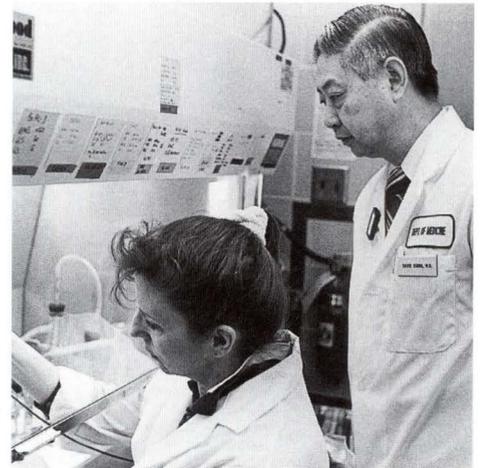
Ehrlichia is transmitted by deer ticks, which also transmit Lyme disease and a parasitic illness called babesiosis. Some researchers think co-infection with these agents worsens Lyme disease and makes it difficult to diagnose and treat.

Goodman's research could lead to improved diagnosis and treatment of the diseases, according to *Science*. Goodman, associate professor of infectious diseases, reported his findings in the January *New England Journal of Medicine*. ■

Breast cancer blood test approved

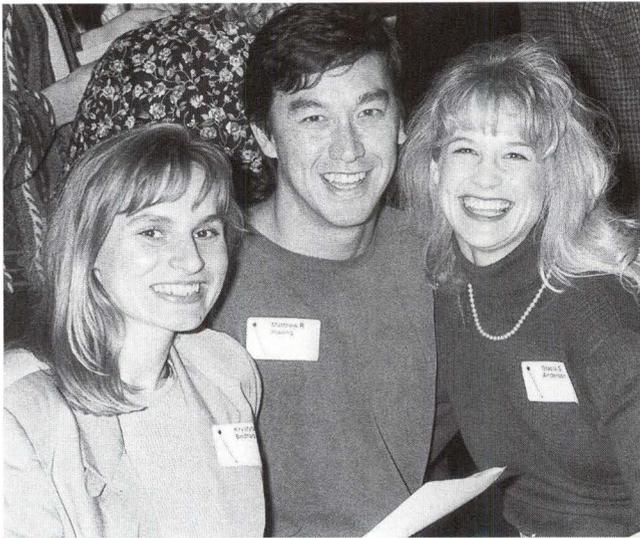
A \$50 blood test, Truquant BR RIA, has received FDA approval as a detection method for signs of recurring breast cancer. The results of trials conducted by the University of Minnesota and four other institutions represent a step forward in the struggle to improve the breast cancer cure rate. The blood test screens for elevations in the level of proteins shed from breast cancer cells. A positive test indicates the need to begin chemotherapy in order to kill breast cancer cells that have spread. Principal investigator **Dr. David Kiang**, professor of medicine, said that a positive test gives doctors a two to six month head start over standard follow-up procedures.

The test, according to **Dr. B.J. Kennedy**, Regents' Professor emeritus, has high psychological value as well. Women who have received treatment for breast cancer continue to worry about recurrences. A posi-



Above: Dr. David Kiang.
Below: Dr. B.J. Kennedy.

tive test accurately predicts the presence of a recurring tumor 80 to 85 percent of the time. Although the test is available immediately, Kennedy doesn't recommend it for women who have not been previously diagnosed with breast cancer, as the blood test is not sensitive enough to detect the protein secretions of early breast cancers. ■



Students Krystyna Bednarz, Matthew Hwang, and Stacia Anderson celebrate at Match Day.

Residency matches revealed

On March 20, University of Minnesota fourth-year medical students found out where they will be serving their residencies. Of the 228 University students who participated in Match Day this year, 58 percent chose residencies in primary care with 31 percent specifically choosing family practice. In addition to family practice, primary care includes medicine (13 percent) and pediatrics (11 percent).

The National Residency Match program matches fourth-year medical students with medical residency programs. Students rank their choice of residencies, the institutions rank their candidate preferences, and a computer in Washington, D.C., completes the match.

Most University students, 63 percent, were matched with their first choice of residency and 15 percent received their second choice. More than half will remain in Minnesota, with 31 training at the University of Minnesota. ■

Students elected to Alpha Omega Alpha

Forty students from the 1996 and 1997 University of Minnesota Medical School graduating classes were recently honored with initiation into Alpha Omega Alpha (AOA). AOA is a national medical honor society that promotes scholarship, encourages high standards in character and conduct, and recognizes high academic achievement.

Election to AOA is a distinction that accompanies physicians throughout their professional careers, and is limited to those individuals whose scholastic achievements (pre-clinical, clinical, and National Board scores) place them in the upper 25 percent of their class.

AOA sponsors programs including a visiting professorship, student essay award, and student research fellowships. The Alpha chapter at the University of Minnesota also sponsors scholarships awarded through the Minnesota Medical Foundation to promising medical students in the first two years of medical school.

This year's initiates from the 1996 graduating class include: **Shane S. Anderson**, Roseville; **Stacia S. Anderson**, Pine Island; **MarySue Beran**, Lauderdale; **Brent R. Bullis**, Chisholm; **Hamid R. Djalilian**, Rochester; **Cara B. Ellmann**, Roseville; **Julie K. Heimbach**, Duluth; **Jennifer M. Fisher**, Green Bay, Wisconsin; **Christopher B. Hirose**, Golden, Colorado; **Matthew R. Hwang**, Hutchinson; **Thomas A. Jacobson**, Maple Grove; **Sheila J. Jenkins**, Bloomington; **Jennifer S. Lahmann**, Richmond; **Timothy A. Lander**, Edina; **Julia M. Lee**, Oakdale; **Margret L. Lenarz**, Minneapolis; **Paul A. Lyle**, Bemidji; **Sarah C. Maier**, Lexington, Massachusetts; **Christine J. Olson**, Minneapolis; **Laura N. Olson**, Willmar; **Mark Prebonich**, New Brighton; **Shannon B. Radke**, Leonard; **Ann Elizabeth V. Rogers**, San Jose, California; **Shaneen D. Schmidt**, Carlton; **James A. Skrocki**, Bloomington; **Mark D. Sprenkle**, Minneapolis; **Trudie R. Sprenkle**, Edina; **Payam Tristani-Firouzi**, St. Paul; **Jeffrey M. Young**, Forest Lake; and **Jeffrey R. Weis**, Paynesville.

Initiates from the 1997 graduating class include: **Kristina M. Braaten**, Fairmont; **Carla R. Goerish**, Kiester; **Amy J. Hergott**, Waseca; **Chad A. Holien**, Vermillion; **David W. Larson**, Burnsville; **Diego A. Preciado**, Panama City, Panama; **Susan J. Sickler**, Dickinson, North Dakota; **Suzanne M. Skoog**, Anoka; **Krista A. Uldbjerg**, Hutchinson; and **Peter B. Wold**, Bloomington. ■

DEPARTMENTAL UPDATES

Anesthesiology

Newly appointed faculty members are **Drs. Ann Buttermann** and **Ilya Rubin**, neuroanesthesiology, and **Dr. Steve Swaim**, pain management.

Biochemistry

Dr. Vivian Bardwell, assistant professor, received an American Cancer Society Institutional Research Grant of \$10,833 for a project titled "Identification of genes regulated by BCL-6." This grant will be administered by the Cancer Center.

Dr. James Howard, professor, received a National Science Foundation grant of \$204,881 for a project called "Mechanism & function in nitrogenase." **Dr. James Koerner**, professor, received a Graduate School grant of \$22,200 for his project, "Quisqualate sensitization & neurotoxicity." **Dr. Kevin Mayo**, associate professor, received a Graduate School grant of \$10,000 for a project titled "Rationally designed bactericidal & endotoxin neutralizing peptides." **Dr. David Zarkower**, assistant professor, received a Graduate School grant of \$22,000 for a project titled "A screen for new genes that control sexual development of *C. elegans*."

Cell Biology & Neuroanatomy

Dr. Robert Elde, professor and dean of the College of Biological Sciences and holder of the John B. Johnston Land Grant Chair in Neuroscience, has been chosen to receive an honorary degree of Doctor of Medicine from the Karolinska Institute in Stockholm, Sweden.

Dermatology

Dr. Whitney Tope, a dermatologic surgeon, joined the Cutaneous Surgery and Laser Center in May. He will perform patient consultations, and cutaneous and laser surgery. He will also conduct studies on the use of Benzoporphyrin Derivative (BPD) for photodynamic treatment of psoriasis and basal cell carcinomas.

Child Family Life Help Services staff now assist **Dr. Ken Bloom's** Pediatric and Adolescent Dermatology Clinic at UMHC to help children and their families cope with their experiences.

Dr. Christopher Zachary, associate professor, is using telemedicine to aid physicians in Wadena, Minnesota, with history-taking and consultation.

Dr. Janellen Smith, chief of dermatology at the VA Medical Center, has been named president of the National Association of VA Dermatologists.

Dr. Erin Warshaw, from Emory University in Atlanta, will join **Dr. Janellen Smith** at the VA Medical Center October 15. Warshaw is an expert in allergic contact dermatitis and patch testing.

Dr. Maria Hordinsky, associate professor, has recently been nominated by the Women's Advisory Committee to attend the Associate of American Medical Colleges Professional Development Seminar for Women in Medicine, June 29-July 1.

Family Practice & Community Health

The Robert Wood Johnson Foundation has awarded \$530,371 to the department to conduct a four-year study evaluating a new care plan for elderly enrollees at Medica's Center for Healthy Aging. This model is designed to provide older persons with efficient coordinated care without restricting their access to providers and services. **Dr. James T. Pacala**, assistant professor, will be serving as principal investigator with **Dr. Chad Boulton**, assistant professor, as investigator.

Laboratory Medicine & Pathology

Dr. Barbara Burke, professor, retired after 40 years of service. She is recognized as an essential contributor to the success of the pediatric kidney transplant program.

Medicine

Dr. Jonathan I. Ravdin became the new head of the Department of Medicine on January 1. Ravdin, former professor and vice chair of medicine at Case Western Reserve University, replaces **Dr. Thomas Ferris**, holder of the Nesbitt Chair in Medicine, who was department head for 18 years. **Dr. Melissa King** has joined the staff of Pulmonary and Critical Care Medicine as a tenure track assistant professor of medicine. Her research focuses on molecular therapeutics in airway fibrosis following transplantation. With support from an NIH Career Investigator Development Award, King is investigating "Dominant negative PDGF receptors in airway fibrosis." The Division of Diabetes, Endocrinology, and Metabolism welcomes **Dr. Mara J. Horwitz**, clinical assistant professor in the practice of endocrinology with a

Departmental Updates, continued

specialization in osteoporosis and other metabolic bone diseases.

Dr. Tim Behrens, assistant professor, received an NIH grant for "Transgenic analysis of BCL-X in autoimmunity." **Dr. Nancy Meryhew**, associate professor, was appointed to the Minnesota Lupus Foundation board of directors. **Dr. Ron Messner**, professor and holder of the John F. Finn Arthritis Foundation Land Grant Chair in Rheumatology, was appointed to the board of directors of the Minnesota Arthritis Foundation. **Dr. Dan Mueller**, assistant professor, is serving on the Minnesota Arthritis Foundation's grant review committee. **Dr. R. Paul Robertson**, professor of medicine and director, Division of Diabetes, Endocrinology, and Metabolism and holder of the Pennock Family Land Grant Chair in Diabetes Research, received the Robert H. Williams-Rachmiel Levine Award, given in recognition of excellence in training and mentoring young scientists.

Nephrologists **Drs. Thomas Hostetter**, **Connie Manske**, and **Mark Paller** were recently listed among the *Best Doctors in America*. Paller was elected to the Council of the Central Society for Clinical Research and Hostetter was selected for another term on the American Board of Internal Medicine, Nephrology Subspecialty. **Dr. Harry Jacob**, head of the Division of Hematology and holder of the George Clark Professorship in Medicine Chair, was presented the Fujita Medal of the Japan Society of Intensive Care Medicine. Jacob will be the Francis Weld Peabody visiting professor at Harvard Medical School and the Izale visiting professor at Hadassah University Medical School, Jerusalem, in 1997.

Dr. David H. Ingbar, associate professor, Pulmonary Division, is researching "Hyperoxic effects of the regulation of Na, K-ATPase gene expression," with support of a Career Investigator Award from the American Lung Association.

Dr. B.J. Kennedy was awarded Mastership in the American College of Physicians in San Francisco on April 25. Masters are a small group of highly distinguished physicians who have achieved recognition in medicine by exhibiting preeminence in practice or medical research, holding positions of high honor, or making significant contributions to medical science or the art of medicine. Kennedy is a Regents' Professor of Medicine and Masonic Professor of Oncology, Emeritus.

Neurology

U KIDS Epilepsy Program now provides coordinated services for children with newly diagnosed seizures, poorly controlled seizures, or epilepsy and other medical problems. **Jane Scott, R.N.**, has joined the U KIDS Epilepsy Program as the Pediatric Epilepsy Nurse Clinician.

Obstetrics & Gynecology

Dr. Jeffrey Fowler was promoted to associate professor specializing in gynecologic oncology. New faculty include **Dr. Mark Martens**, vice chair and chair of OB/GYN at Hennepin County Medical Center, specializing in OB/GYN infectious diseases; **Dr. M. Dwight Chen**, assistant professor specializing in gynecologic oncology; **Patricia Hines, CNM**, instructor and Certified Nurse Midwife; and **Drs. Mohamad El-Zaatari**, **Rashmi Kaul**, and **Anil Kaul**, assistant professors conducting research in the cancer immunology lab.

Current projects and studies include research into treatment protocols for ovarian, cervical, vulvar, vaginal, and uterine carcinoma surgery, chemotherapy, and radiation therapy with Gynecologic Oncology Group investigators **Drs. Leon Adcock** and **Linda Carson**. The HOPE Study, "A prospective, double-blind, randomized study of the safety and efficacy of lower doses of Premarin and Medroxyprogesterone Acetate in postmenopausal women," continues with principal investigator **Dr. Linda Carson**.

Ophthalmology

Dr. Donald J. Doughman, professor, was elected president of the Contact Lens Association of Ophthalmologists (CLAO) for 1996. In January, **Dr. Robert Letson**, professor, was a medical volunteer in India, serving one week with Orbis at Manipal (near Mangalore) and two weeks at the Aravind Eye Hospital at Maduroi.

This year's Knobloch Visiting Retinal Professor lecture has been scheduled for December 13-14. The speaker will be **Dr. J. Donald Gass** from Vanderbilt University in Nashville, Tennessee. Funds for the professorship are from the Knobloch Endowed Retina Research and Education Fund. The John E. Harris Visiting Professor lecture was held May 3-4. The speaker was **Dr. Robert C. Kersten**, associate professor of ophthalmic plastic and reconstructive surgery from the University of Cincinnati. Attorney **James F. Roegge** spoke at the

Frederic F. Wippermann Medical Legal Ethics lecture, held May 17.

Resident Research Day is scheduled for June 21 in the Department of Ophthalmology. Residents and fellows will present 20 minute lectures and the faculty will evaluate the research projects for the Harry Friedman Resident Research Award. The award was established by Dr. Friedman to recognize the resident who presents the outstanding research project of the year. Graduating residents include **Drs. Jason C. Cheung, Jeffrey Ketcham,** and **David E. Puk.**

The University of Minnesota Eye Association invites alumni and friends to attend the annual reception held during the American Academy of Ophthalmology Annual Meeting, October 29 at 5:30 p.m. at the Chicago Hilton and Towers.

Dr. C. Gail Summers received an American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Honor Award, which recognizes members who have been of service to AAPOS. **Dr. Linda K. McLoon** was awarded a Dystonia Medical Research Foundation grant to study doxorubicin chemomyectomy for treatment of cervical dystonia. In addition, **Drs. McLoon** and **Jonathan D. Wirtschafter's** research on N-CAM in Mature Extraocular Muscles was published in the February 1996 issue of *Investigative Ophthalmology & Visual Science*.

Pediatrics

An *American Health* magazine article, "The Best Doctors in America," named **Drs. Robert Gorlin** of dentistry and pediatrics, **David Sutherland** of surgery, **Roby Thompson** of orthopaedics, **Norma Ramsay** and **Bill Woods** of pediatric oncology, and **Margaret Hostetter** of pediatrics as top doctors.

Dr. Ernest Gray, professor, Division of Infectious Disease, retired after 33 years. He is recognized as a strep expert. **Dr. Margaret Hostetter**, professor and director, Division of Infectious Disease and holder of the American Legion Heart Research Professorship, was given special recognition for receiving a prestigious NIH Child Health Research Center award. The award will allow 10 junior faculty to receive in-depth training in molecular and developmental biology.

Dr. Robert Vernier, professor, Division of Pediatric Nephrology, retired after 41 years of service. He is considered to be a teacher and mentor to hundreds of pediatric nephrologists worldwide. **Dr. Smita Bhatia**, medical fellow specialist, published an article in the March 21 *New England Journal of Medicine* which showed the link

between breast cancer and radiation used in treatment of childhood Hodgkin's disease.

The Annual Pediatric Education, Research, and Service Recognition Banquet will be held June 14 at the Radisson Hotel Metrodome. The banquet highlights individuals who pledge their careers to advance the cause of children and their health.

All positions in this year's residency match for the pediatric and medicine-pediatric residency training programs were filled. In the categorical pediatric program, 23 new interns started training in June — 10 are from the University of Minnesota Medical School. In the Medicine-Pediatric Combined Training Program, 13 new interns also started in June — one resident attended the University of Minnesota.

Pharmacology

Dr. Sheldon Sparber, professor, recently received a five-year MERIT (Method to Extend Research in Time) Award from the National Institute of Drug Abuse for \$250,000 per year to continue studying the basis for cocaine action. **Dr. Greg Connell** recently joined the department as an assistant professor. He re-ceived his degree from the University of British Columbia and recently completed postdoctoral training at UCLA. He will be doing research on the role of RNA structure..

Physical Medicine & Rehabilitation

The department has received approval for a new doctorate program in Rehabilitation Science for physicians, physical and occupational therapists, and others. The program will begin fall 1996. In addition, the current baccalaureate degree program in physical therapy will be replaced with an entry level master's degree in physical therapy beginning fall 1997.

Physiology

Dr. Linda M. Boland, assistant professor, received a five-year NIH grant of \$349,541 for "Molecular physiology of potassium channel gating." **Dr. Janet M. Dubinsky**, assistant professor, was awarded a three-year NIH grant totaling \$388,175 for "Interaction of hypoxic and excitotoxic neuronal injury." **Dr. Eric Newman**, professor, received a five-year core grant for vision research from the National Eye Institute for a total of \$1,148,736.

Departmental Updates, continued

Psychiatry

Dr. Gail A. Bernstein, associate professor, was appointed director of the Division of Child and Adolescent Psychiatry in January. Bernstein previously served as acting director of the division for 13 months. She is principal investigator on a grant from the National Institute of Mental Health entitled "Imipramine in the treatment of school refusal." She is also on the editorial board of the *Journal of the American Academy of Child and Adolescent Psychiatry*.

Dr. Susan L. Warren, assistant professor, joined the Division of Child and Adolescent Psychiatry in July 1995. She completed a three-year postdoctoral research fellowship in infant research at the University of Colorado. Warren is an attending physician on the Child and Adolescent Psychiatry Inpatient Unit and is director of the Clinic for Infants/Toddlers/Preschoolers.

Radiology

Dr. Kurt Amplatz, professor and holder of the Malcolm B. Hansen Professorship in Radiology, received the first gold medal ever awarded by the Society of Cardiovascular and Interventional Radiology at their recent meeting in Seattle.

Dr. Bill Mize, assistant professor, has been appointed to the Child-Abuse/Neglect Committee, where he serves with representatives of the University Hospital and other local institutions to enhance the detection and treatment of child abuse. **Dr. Art Stillman**, assistant professor, is doing a Phase II research project for Bracco Diagnostics on dose-ranging and comparative study of the safety and efficacy of gadobenate dimeglumine in magnetic resonance imaging in patients with local liver lesions.

School of Public Health

The nation's largest school-based health promotion study, CATCH (Child and Adolescent Trial for Cardiovascular Health), headed by **Dr. Russell Luepker**, professor, medicine, and **Dr. Cheryl Perry**, professor, epidemiology, was published in the March 13 *Journal of the American Medical Association*. Luepker has been named chair of the Epidemiology and Disease Control Study Section of the National Institutes of Health. **Dr. Wendy Hellerstedt**, assistant professor, Health Management and Policy, co-authored a study comparing C-section risks

and the health of infants born to obese and normal-weight women that appeared in the March edition of *Obstetrics and Gynecology*.

Surgery

Dr. Henry Buchwald, professor, was elected president at the Central Surgical Association meeting, which the Department of Surgery hosted March 8-10. **Dr. Steven M. Santilli** became assistant professor of surgery at the Minneapolis Veterans Affairs Medical Center on July 1, 1995.

The Weigelt-Wallace Award has been named after **Dr. John A. Weigelt**, vice chair of the Department of Surgery and chair of the Surgery Department at St. Paul-Ramsey Medical Center. The award also honors **Dr. Mark Raymond Wallace**, a commander at the U.S. Naval Medical Center in San Diego. **Dr. Lucile E. Wrenshall** was appointed instructor of transplant surgery in September 1995.

A continuing education course on critical care is scheduled for June 12-15. **Dr. Basil Pruitt** is the annual Judd lecturer. The Seventh Annual Fundamentals of Surgical Research Course, hosted by the Association for Academic Surgery, is scheduled for July 13-16.

Therapeutic Radiology

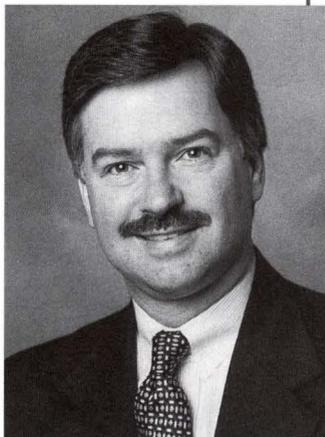
Dr. Faiz Khan, director of the Radiation Physics Section, was elected chair of the American Board of Medical Physics. The board certifies medical physicists in the following specialty areas of physics: radiation oncology, diagnostic imaging, medical health, and hyperthermia. **Dr. Roger A. Potish**, professor and vice chair, has been appointed chair of the Radiation Oncology and Radiobiology Subcommittee for 1996, an annual appointment by the Radiological Society of North America. **Dr. Fatih Uckun**, professor, Departments of Pediatrics and Pharmacology, and director, Biotherapy Program, published a paper in *Science* describing the effect B43-Genistein has on human leukemia cells in laboratory mice.

UMD

US News and World Report ranked the Duluth School of Medicine second for its program in rural medicine, eleventh for its program in primary care, and first in the percent of graduates that become primary care doctors. ■

New MMF president appointed

Brad Choate joined the Minnesota Medical Foundation as the new president and chief executive officer on April 8. Previously Choate served as associate vice president for development and alumni relations at Penn State University.



Brad Choate

As a top fund-raising official, he was responsible for the operations of Penn State's fund-raising program since 1990. In that time, gift revenue increased 33 percent to nearly \$83 million and the number of donors increased 15 percent to 108,000. He helped organize fund-raising efforts for the Bryce Jordan Center, the Paterno Libraries, and the biomedical research building at the Milton S. Hershey Medical Center.

"We are very pleased that Brad has joined the foundation and look forward to his leadership," says Paul Birkeland, chair of MMF's board of trustees. "He is one of the top advancement executives in the country, and we look forward to having his talents at the Minnesota Medical Foundation."

A native of Marion, Illinois, Choate received bachelor's degrees in history and political science and a master's degree in education from Southern Illinois University. Before joining Penn State he served as director of corporate and foundation relations at Ohio State University. ■

MMF approves \$194,585 in grants

At its winter quarterly meeting, the Minnesota Medical Foundation board of trustees approved \$194,585 in research and special grants. The amount includes \$109,385 in faculty research grants and \$85,200 in special grants.

FACULTY GRANTS include: **James W. Bodley, Ph.D.**, Biochemistry, \$8,000, Defining the minimal diphtheria toxin substrate; **R. Morton Bolman III, M.D.**, Surgery, \$7,500, Hyperacute rejection of porcine lungs; **Henry Buchwald, M.D., Ph.D.**, Surgery, \$3,000; **Frank H. Burton, Ph.D.**, Pharmacology, \$7,500, Genes induced and repressed in cyclic AMP tumorigenesis; **Stephen A. Katz, Ph.D.**, Physiology, \$7,500, Renin and angiotensinogen dynamics in the myocardium; **James F. Koerner, Ph.D.**, Biochemistry, \$6,000, Quisqualate sensitization and neurotoxicity; **Ryoko Kuriyama, Ph.D.**, Cell Biology and Neuroanatomy, \$7,500, Molecular analysis of chimeric microtubule motor proteins in dividing cells; **Kevin H. Mayo, Ph.D.**, Biochemistry, \$5,000, B-Sheet peptide designed to neutralize endotoxin; **Paul J. Orchard, M.D.**, Pediatrics, \$8,000, Characterization of the B galactosidase gene in infantile osteopetrosis; **Peter G.W. Plagemann, Ph.D.**, Microbiology, \$7,500, Expression of human endogenous retroviruses in the CNS; **Matthew D. Putnam, M.D.**, Orthopaedic Surgery, \$4,000, Biomechanics of the scapholunate joint: A basis for clinical treatment decisions; **Nancy L. Reinsmoen, Ph.D.**, Surgery, \$3,000, Role of anti-HLA antibodies in chronic rejection; **Jeffrey B. Rubins, M.D.**, Medicine, \$4,585, The role of gamma-interferon in pneumococcal pneumonia; **Steven M. Santilli, M.D., Ph.D.**, Surgery, \$5,000, The transarterial wall oxygen gradient and atherosclerosis; **Sara J. Shumway, M.D.**, Surgery, \$4,000, A study of fibronectin peptides and their role in the prevention of cardiac allograft rejection; **O. Douglas Wangensteen, Ph.D.**, Physiology, \$6,000, Intracellular calcium change in airway epithelial cells; **Herbert B. Ward, M.D., Ph.D.**, Surgery, \$3,300, The effect of purine metabolism on myocardial function after cardiac surgery; **Susan L. Warren, M.D.**, Psychiatry, \$6,000, Biological markers in infants of parents with panic disorder; and **George L. Wilcox, Ph.D.**, Pharmacology, \$5,000, Studies of receptor subtypes mediating spinal analgesia and synergy.

SPECIAL GRANTS include: **Inder S. Anand, M.D.**, Medicine, \$8,000, A randomized trial comparing oxygen

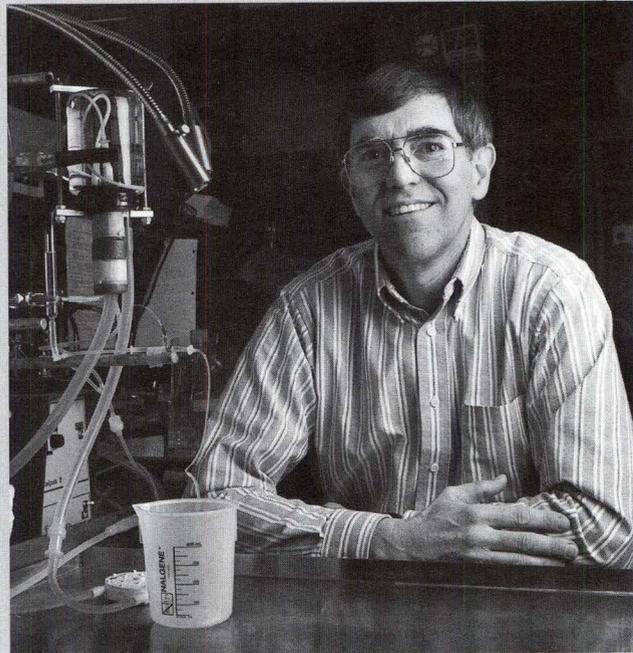
MMF grant recipient: O. Douglas Wangensteen, Ph.D.

Some patients with cystic fibrosis, asthma, and other lung diseases also battle chronic, low-grade airway infections. To find out more about the consequences of these infections, O. Douglas Wangensteen, Ph.D., Department of Physiology, is studying changes in the airway cells.

Wangensteen, one of 27 faculty members awarded an MMF grant last winter, received \$6,000 to research injury to airways in lung disease. "As a respiratory physiologist, I became interested in the observation that many cystic fibrosis patients with chronic airway infections had blood proteins in the sputum, even though the airways looked okay," says Wangensteen. "This is unusual. If blood proteins are present, I would expect to see some kind of damage.

"We decided to find out how low-grade, chronic infection can affect the airway epithelium's ability to serve as a barrier and keep the airway clean." He began by focusing on the product of one type of cell, the neutrophils, which are found in the airways when a bacterial infection exists. One of the products of neutrophils is an enzyme, myeloperoxidase, which ultimately makes bleach — hypochlorous acid. The hypochlorous acid is made to destroy bacteria but what Wangensteen observed was that the material can also damage cells in the airway. "A low dose of hypochlorous acid may not kill the cells, but it causes the gaps between the cells to open up so that proteins can leak out," he explains.

"We have shown there is an effect, that the hypochlorous acid does make the epithelium leaky. Next we needed to find out how a low concentration of hypochlorous acid affects the proteins at the junctions between the cells," says Wangensteen.



O. Douglas Wangensteen, Ph.D.

"What may be happening is that the hypochlorite affects the proteins on the surface of the cells, causing the calcium concentration inside the cell to increase. That increase would cause the cytoskeleton to contract and pull the cells apart." Some preliminary measurements show that the calcium does increase when low doses of hypochlorite are applied to trachea cells, according to Wangensteen. Next, he plans to further investigate why the calcium concentration in the cells increases.

"After we can confirm that hypochlorite does increase intracellular calcium, we will be able to apply for grants from the National Institutes of Health, the American Thoracic Society, and the Cystic Fibrosis Foundation to further the research," he says. "And eventually, this could lead to some type of therapy to prevent the action of hypochlorite and prevent the calcium from increasing, for example," he says. "We would then have a better chance of preventing long-term effects of chronic airway infections."

Wangensteen received his undergraduate degree in chemical engineering and his Ph.D. in physiology from the University of Minnesota. He has been with the Department of Physiology since 1970, first as assistant professor, and later as associate professor. Since 1989, he has served both physiology and pediatrics. ■

MMF AFFILIATES

and inhaled nitric oxide in the treatment of high altitude pulmonary edema; **Henry H. Balfour, Jr., M.D.**, Laboratory Medicine and Pathology, \$5,000, Lymphoid tissue specific alterations induced in the HIV-1 genome as a result of antiretroviral therapy in AIDS patients: Molecular analysis and computer modeling; **Vivian Bardwell, Ph.D.**, Biochemistry, \$20,700, The molecular basis of action of the putative oncogene BCL-6; **Richard P. Di Fabio, Ph.D., P.T.**, Physical Medicine and Rehabilitation, \$10,000, Aging and adaptation of head control; **Stephen C. Ekker, Ph.D.**, Biochemistry, \$14,500, Determination of the vertebrate body plan; **Youngki Kim, M.D.**, Pediatrics, \$5,000, Request for the purchase of cryostorage system for cultured cells; **Michael Maddaus, M.D.**, Surgery, \$8,000, Detection of occult micrometastases in early stage non-small cell lung cancer; and **David Warden, M.D., Ph.D.**, Medicine, \$15,000, Abnormal endothelium-dependent vascular relaxation during acute renal failure: Role of nitric oxide. ■

Lowell Weber retires

Lowell Weber, vice president for development at the Minnesota Medical Foundation, has announced his retirement from the foundation effective May 31.

Weber came to MMF in 1984 as director of planned giving, following a 22-year career at Hamline University. He was named director of development in 1985 and vice president for development in 1991.

During his tenure at MMF, gifts have increased from \$4 million to approximately \$20 million and assets have increased from \$16 million to \$130 million. The number of development officers has grown from three to fifteen.

Weber plans to devote some of his retirement time to mentoring and training young development officers at area non-profit organizations. ■



Lowell Weber

Children's Cancer Research Fund



The 15th Dawn of a Dream benefit, held in Minneapolis January 20, raised more than \$760,000 for childhood cancer research. More than 1,700 people attended the event. It included a silent auction which raised over \$90,000, including \$27,000 for the raffle of a 1979 Volkswagen Beetle convertible donated by Ted Deikel. Singer Kenny Loggins, along with Northwest Airlines, donated \$10,000. A live auction for Loggins' guitar raised nearly \$4,000.

The 1996 Benefactors Circle dinner was held May 30. Benefactors donate \$1,000 or more annually to CCRF, independent of any other CCRF event. In its six years of existence, the Benefactors Circle has raised more than \$350,000.

In support of CCRF, the law firm of Dorsey & Whitney worked with CCRF to create a holiday card for clients. To determine the design, an art contest was conducted among children who have received cancer treatment at the University of Minnesota. Two designs were chosen and Justin Fahse, age 6, and Lee Homan, age 10, each received a cash gift for their efforts. Dorsey & Whitney contributed \$5,000 to CCRF.

The Fash Bash '96, the fifth fall fashion extravaganza presented by Dayton's, will be held July 25 at the Historic State Theatre in Minneapolis. The show has generated more than \$435,000 for CCRF so far. Row sponsorship is \$1,500 and includes premiere seating for 12, and individual ticket prices are \$250, \$100, or \$35.

Tom Lehman will host the second annual Dayton's Challenge golf event on July 1 at the Minneapolis Golf Club. The event will feature 12 PGA Tour professionals including Lehman, Phil Mickelson, Peter Jacobson, Vijay Singh, and Mark Calcavecchia. Last year's event raised \$125,000 for CCRF. The event is being coordinated by Signature Sports Group with Dayton's as the title sponsor. Ticket package prices range from \$50-\$125 and may be obtained from Ticketmaster, 612-989-5151.

For more information about volunteering, contact Corky Carlson or Toni Cady at 612-929-5535 or 1-800-922-1MME. ■



James Davis (left), Master of Joppa Lodge #300 of St. Louis Park, and Bill Papas, Past Master of Joppa Lodge #300, present a \$2,000 check to Dr. David E.R. Sutherland for the Diabetes Institute for Immunology and Transplantation Fund.

Diabetes Institute for Immunology and Transplantation

In the March issue of *American Health*, Institute director Dr. David E.R. Sutherland was named one of the best doctors in the United States. Sutherland was chosen for this honor by his peers for his expertise in pancreas transplantation.



The Diabetes Institute is grateful to the following individuals and groups who recently became Institute Founder's Circle members by giving \$10,000 or more in support of the Institute's mission: Thomas and Patty Cartier, Mitzi Pogoriler Center, and Hutterite Colonies.

Recently, over 150 individuals attended a presentation entitled, "Current Efforts in Pancreas and Islet Transplantation to Cure Diabetes" by Dr. Sutherland, in Duluth. It capped a day of Institute activities that were coordinated and sponsored by volunteers working in Duluth on behalf of the Institute.

For information on how you can benefit from or support work of the Institute, call 612-626-2101 or 1-800-922-1MMF. ■

International Hearing Foundation



The International Hearing Foundation re-elected H. Theodore Grindal as president and elected Dan Barnett, Ph.D., as vice president. Dr. Robert Margolis, director of the University's Audio Clinic, is heading a new program in Santiago, Chile. The project will involve equipping the Carreon School for the Deaf with new teaching aids and providing hearing aids for the students.

Matt Blair, the former All-Pro Viking, is again director of the Fourth Annual Celebrity Golf Tournament at Burl Oaks Country Club in Mound. Previously, IHF has raised over \$25,000 for the Senegal Africa Project, which sends physicians and supplies to Senegal. Dr. Barry Kimberley, from Calgary, Canada, recently joined the IHF board of directors. The Meniere's and Tinnitus Support Groups continue to grow, and meet the first Saturday of each month from 10:00 a.m. - noon. For more information about IHF, call 612-339-2120. ■

Program of Mortuary Science

The Associated Press reported that "the best managerial job in the country today is funeral director" according to research conducted by Cognetics, Inc. The report also mentioned that funeral service "ranked 10th among 219 industries in job security and 49th in pay." In response to the report and resulting calls from the media, Dr. John Kroshus, director, Program of Mortuary Science, Department of Cell Biology and Neuroanatomy, published an article in the April issue of *MN Funeral Directors Association*. For more information, call 612-624-6464. ■

University Children's Foundation

Three new members joined the University Children's Foundation board in February: Jerilyn Miller Lowe of Tunheim Santrizos, Barbara Izzo of Quebecor Printing, and Steve Gill of Phillips Beverage.

The seventh annual UCF benefit, Catch a Rising Star, featured a dinner May 16 and a wine tasting and auction May 17. Raynelle Perkins and Enrica Fish provided the leadership for this successful venture, which

involved many volunteers and others committed to children's well-being. Proceeds from the event (over \$60,000 net) fund the University Children's Foundation Scholar Award annually. The award goes to a young researcher in the Department of Pediatrics to advance research in diverse areas of childhood disease. (See the Spring 1996 *Medical Bulletin* for a complete story on this award.)



On June 6, the Dove family (Tim, Judy, and their daughter Angie Svien-Dove, a former patient of the Department of Pediatrics) of New Richmond, Wisconsin, and Action Battery Wholesalers, Inc., are hosting a golf tournament and pig roast at Bristol Ridge Golf Course in Somerset. Talk show host "Dark Star" of WCCO Radio will take an active role in the fund raiser, which will benefit UCF.

The fourth annual Nordstrom Back to School Fashion Show, featuring former pediatric patients cared for through the Department of Pediatrics, will take place August 24 at Nordstrom Mall of America. Gaye Christensen is providing volunteer leadership and working with Nordstrom staff to coordinate the event. For information, call 612-625-1471 or 1-800-922-1MMF. ■

University of Minnesota Cancer Center

The University of Minnesota Cancer Center dedicated its new Masonic Cancer Research Building March 30. In honor of the accomplishment, Governor Arne Carlson declared March 30 as Masonic Cancer Research Building Day. On June 15, the Grand Opening Celebration will be held at the River Flats Park adjacent to the University of Minnesota East Bank campus. For more information, call 612-624-8484 or 1-800-922-1MMF. ■



Vision Foundation

The first Annual Gala Dinner and Dance for the Vision Foundation will be held May 3, 1997. A Victorian theme will feature Visions From the Past-Hope for the Future of Sight, and activities will include recognition of Vision Foundation Builders and Trustees Society members, din-

ner, music, dance lessons, and tours of a historic mansion. Funds raised will support the Department of Ophthalmology's research and education programs.

The Vision Foundation invites nominations for this year's Honor Awards. Nominations are being accepted for the Outstanding Achievement Award, the Outstanding Service Award, and the Alumni Service Award. Nomination packets can be requested at 612-625-8992. Deadline for nominations is September 9.

Alumni and friends of the Department of Ophthalmology attended the 11th Annual U of MN Eye Opener, held May 11 at the Les Bolstad University Golf Course. The event, sponsored by the Eye Association, raised nearly \$5,000 for research and education programs.

The 10th Annual Thanksgiving For Vision celebration is scheduled for October 12 at the Bloomington Airport Marriott. The event is sponsored by the Minnesota Lions Eye Bank to honor Lions Clubs and individuals making significant contributions to eye research and education.

The next Gift of Sight Tours will be conducted in August. Friends of the Vision Foundation are invited to see the Department of Ophthalmology's laboratories and education facilities. For more information call 612-625-9613 or 1-800-922-1MMF. ■



Women's Health Fund

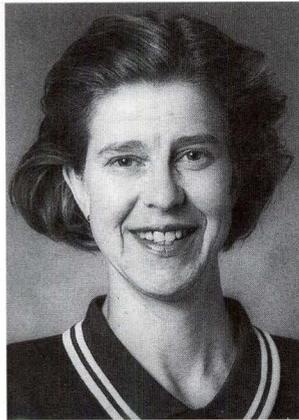
The Broadway production of *Sunset Boulevard* will be presented in Minneapolis on January 4, 1997. Proceeds from the event will benefit the Women's Health Fund. For tickets or more information, call the Women's Health Fund at 612-626-2612 or 1-800-922-1MMF. ■



WOMEN'S
HEALTH
FUND

President's Report

As president of the Medical Alumni Society (MAS) during the past two years, I have seen numerous changes at the University of Minnesota Medical Schools. In many ways it is not clear what the future holds for medical education, just as it is uncertain what lies ahead for each of us. Fortunately, we have leadership committed to working with the community to help our alma mater remain one of the top medical schools in the country.



Membership in the Medical Alumni Society has grown by nearly 500 members during the last two years. I encourage you to become a member by joining the University of Minnesota Alumni Association (UMAA). Membership dues, only \$30 for an alumnus, include a wide range of benefits in addition to supporting the efforts of the UMAA and MAS.

Please consider taking an active role in MAS events and projects. This year 65 alumni and student mentoring pairs were formed and other alumni hosted students visiting residency sites around the country. Volunteers are always needed to help plan class reunions and area receptions, as well as to serve on the alumni board.

Become involved in the functions of your Alumni Society and your Medical School! For more information, call the Medical Alumni Society office at 612-625-8676 or 1-800-922-1663. There are many opportunities where your help can be beneficial and rewarding.

It has been my privilege to serve as president of the Medical Alumni Society. This Medical School has been a tradition in the Horns family, and as it is restructured to prepare for the future, I will continue to support it. Hope to see you at some of the alumni functions!

Sincerely,

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

Alumni receptions held

Alumni gathered in San Diego and Los Angeles in February to hear about their Medical Schools. Dr. John Perry, '44, hosted a reception for alums from the Class of 1938 to the Class of 1995 at the Bel Air Country Club in Los Angeles. In San Diego, Dr. William, '45, and Orienne Maloney hosted an event at the University of California Faculty Club. At both events, updates on the Minnesota Medical Foundation and the Medical Schools were given by MMF staff and Dr. Neal Gault, '50.

Upcoming alumni events include the annual Northern Minnesota Reception in Black Duck, to be held in August. This event is hosted by Dr. Richard, '69, and Nilla Stennes at the Moose Lake Resort. Invitations will be sent to those in Northern Minnesota — if you would like an invitation, please contact the Medical Alumni office.

A San Francisco Alumni Reception will be held in conjunction with the Association of American Medical Colleges conference in November. The reception is planned for Friday evening, November 8. Invitations will be sent to alumni who are faculty of area medical schools and Bay Area residents. If you would like to host or attend an alumni reception in your area, please call the Medical Alumni office at the Minnesota Medical Foundation, 612-625-8676 or 1-800-922-1663. ■

UMD School of Medicine plans reunion

Graduates of the University of Minnesota, Duluth, School of Medicine will be gathering in Duluth October 11-13 for a reunion. Festivities will begin at 6:00 p.m. on Friday, October 11, with a family picnic at the School of Medicine. On Saturday, alumni will gather at the University of Minnesota, Duluth, for a Continuing Medical Education session and lunch while their spouses and children have brunch and cruise the Duluth-Superior harbor on the Vista Star. Saturday evening a banquet and dance will be held at the Duluth Entertainment and Convention Center at 6:00 p.m. Sunday brunch will be served at the Entertainment and Convention Center. All events are included in the registration fee: \$65 for adults, \$25 for children. Please call Dr. Jim Boulger at 218-726-8892 for more information. ■

CLASS NOTES

1956

Dr. Melvin E. Sigel, of Minneapolis, has received the Distinguished Service Award from the Federation of State Medical Boards of the United States. This honor is given in recognition of outstanding leadership and tireless efforts on behalf of the Federation and the field of medical licensure and discipline. Dr. Sigel was president of the Minnesota Board of Medical Examiners in both 1988 and 1991 and served on the Federation Board of Directors from 1988 to 1994. He is a member of the board of trustees of the Educational Commission for Foreign Medical Graduates and of the United States Medical Licensing Examination Step 2 Test Committee of the National Board of Medical Examiners. Currently, he is a clinical professor in the Department of Otolaryngology at the University of Minnesota.

1979

Dr. James H. Siphkins, a physician at Northwestern Memorial Hospital, Chicago, was named to the Northwestern Memorial Corporation board of directors in February. He was medical director of Northwestern Home Care Inc. for four years, while serving as chair of the board of Northwestern Healthcare

Corporation. He is now an instructor in the Department of Medicine at Northwestern University Medical School and a member of the Section of Geriatric Medicine.

1984

Dr. Christopher L. Moertel, a clinical assistant professor of pediatrics at the University of Minnesota, has been named chief of staff for 1996 at Children's Health Care in St. Paul, where he is medical director of hematology/oncology.

1986

Dr. Thomas E. Nelson, an orthopaedic surgeon in Marshfield, Wisconsin, was inducted into the American Academy of Orthopaedic Surgeons at the Academy's 63rd annual meeting in February.

1990

Dr. Cheryl Bailey will return to Minneapolis to work at Minnesota Oncology Hematology, PA after completing her fellowship in gyn-oncology. ■



The 6th Annual MMF Golf Classic

Monday, August 26, 1996
Rolling Green Country Club,
Hamel, Minnesota
Double Shotgun Start
(morning and afternoon starts)
Scramble Format
Entry Fee \$200 (\$60 tax-deductible)

The MMF Golf Classic, now in its sixth year, has quickly become one of the Twin Cities' premier golf events. The scramble format tournament provides a challenging but enjoyable round of golf for players of all skill levels. Jeff Passolt, KMSP Channel 9 news anchor, will be honorary chairperson.

Last year's event raised more than \$50,000 for medical research and scholarships at the University of Minnesota Medical Schools (Minneapolis and Duluth). The past five tournaments have raised a total of \$190,000.

Golfers may sign up as a foursome or as individuals. Interested parties are encouraged to call for more information soon. Space is limited and the past few Classics have been sellouts. For more information or to register call 612-625-1440 or 1-800-922-1663.

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UNIVERSITY OF MINNESOTA
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IN MEMORIAM

CHESTER (CHET) A. ANDERSON, M.D., Class of 1944, of Naples, Florida, died February 2 at age 75. Born in Howard Lake, Minnesota, Dr. Anderson was a Macalester College graduate. After serving with the Army Medical Corps, he began working in rural medicine in Winsted, Minnesota. In 1948, he moved to Hector, Minnesota, where he was a solo practitioner until 1985. Dr. Anderson was a lobbyist for rural medical issues; a recipient of a Bush Medical Fellowship; chair of the Minnesota Medical Association, the Minnesota Academy of Family Practice, and the Minnesota Board of Medical Examiners; and in 1983 was named National Family Physician of the Year. He served as medical director for five rural Minnesota nursing homes. An initial shareholder of Communication Systems, Inc., he also served on the CSI board of directors. Dr. Anderson is survived by his wife, Marlys, and four daughters.

HJALMAR E. CARLSON, M.D., Class of 1929, of Overland Park, Kansas, died February 5 at age 90. Dr. Carlson was born in Minnesota, and was a urologist in Kansas City for 50 years. He was an emeritus professor of urology at the University of Kansas and a retired clinical professor of urology at the University of Missouri at Kansas City. From 1946 to 1966 he served as chief of urology at Children's Mercy Hospital. Dr. Carlson was urologic surgeon for the federal penitentiary in Leavenworth, Kansas, from 1940 to 1968. He was the founding editor of the Urologists' Letter Club and authored several books. Dr. Carlson was past president of the South Central section of the American Urological Association; past president and founding member of the Society of Pediatric Urology and the Urological section of the Southern Medical Association; and past president of the staff at Children's Mercy Hospital and Trinity Lutheran Hospital. He is survived by two daughters and a son.

ISADORE "MIKE" FISHER, M.D., Class of 1935, of Minneapolis, died in March at age 85. After completing his internship at St. Mary's Hospital and his residency at the University of Minnesota, Dr. Fisher, specializing in dermatology, practiced at the VA Medical Center, Mt. Sinai Hospital, Minneapolis, and at the University of Minnesota. He is survived by his wife, Rhea, and four children.

WILLIAM H. FLEESON, M.D., Class of 1969, of West Hartford, Connecticut, died on November 13. Dr. Fleeson practiced occupational medicine in Duluth.

MORRIS E. FREEDLAND, M.D., Class of 1938, of Long Beach, California, died on September 20. Dr. Freedland specialized in immunology. He is survived by his wife, Shirley.

MORRIS T. FRIEDEL, M.D., Class of 1936, died February 24 at age 82. Dr. Friedell, of Palm Springs, California, was chair of Jackson Park Hospital and Medical Center and the Hektoen Institute for Medical Research in Illinois. He served as past president of the Chicago Medical Society and the Society of Nuclear Medicine, and as past chair of the Illinois State Medical Society. Born in Minneapolis, he received undergraduate and advanced degrees from the University of Minnesota and was fellow and first assistant to Dr. Waltman Walters, chief surgeon at the Mayo Clinic, Rochester, Minnesota. He was an officer and surgeon in the U.S. Navy Reserve in World War II, serving at Navy hospitals at Pearl Harbor and Great Lakes and aboard the submarine tender Orion. Dr. Friedell later joined surgical staffs of Michael Reese, Mercy, and Cook County Hospitals in Illinois and teaching staffs of Chicago Medical School and Loyola's Stritch School of Medicine. He retired to Palm Springs, California, in 1994. He is survived by his wife, Barbara, and four children.

ROY A. HOFFMAN, M.D., Class of 1935, of Plymouth, Minnesota, died February 21 at age 86. Dr. Hoffman attended Carleton College in Northfield, Minnesota, and the University of Minnesota, where he earned four academic degrees including an M.D. He formed a band while at Frazee High School and served as organist at Bethlehem Lutheran Church, Frazee, Minnesota. He was also a member of the University of Minnesota Marching Band. He is survived by his wife, Lolita, and two sons.

COLONEL LEWIS A. JOHNSON, M.D., Class of 1955, of Rye, New York, died January 12 at age 66. Dr. Johnson was director of the uveitis research laboratory at Columbia-Presbyterian Medical Center's Edward S.

Harkness Eye Institute in New York City and an authority on the pathology of gastrointestinal malignancy. He served as adjunct associate professor of pathology at Columbia University's College of Physicians and Surgeons. Dr. Johnson's research into the pathology of chronic uveitis and other diseases earned him international recognition. He also served on the faculty at Brown University in Providence, Rhode Island, and the University of Minnesota. A retired colonel in the U.S. Army Medical Corps, he was decorated by former New York Governor Mario Cuomo and by the U.S. Army for services during the 1991 Persian Gulf War. Dr. Johnson is survived by his wife, Mary Louise, and two sons.

ARNOLD H. JOSEPH, M.D., Class of 1956, of St. Paul, died February 10 at age 70. After graduating from North High School in Minneapolis, he joined the Navy. Upon returning, Dr. Joseph completed a degree in physics and earned his M.D. He served as a family doctor for 40 years, often bringing his cherished German shepherd on house calls. He is survived by his wife, Terri.

MARSHALL LANDA, M.D., Class of 1945, of Boca Raton, Florida, died February 4 at age 76. Originally from Minneapolis, he served as an Army Medical Officer in Germany. In 1951 he moved to Fargo, North Dakota, where he became a partner in the Dakota Clinic. A co-founder of Dakota Hospital, Dr. Landa served as chair of radiology and as a member of the clinic's board of directors for over 30 years. He is believed to be one of the first North Dakota radiologists to be elected as a diplomate to the American College of Radiology. He is survived by his wife, Sallie.

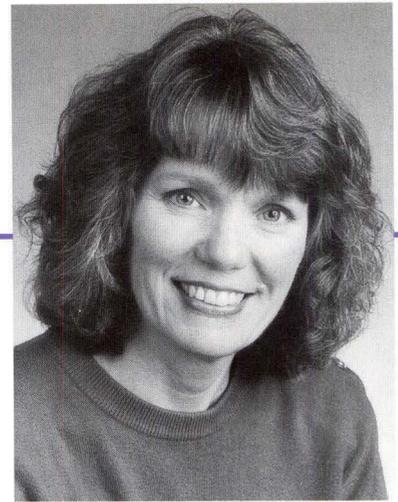
J.C. "CONNIE" MILLER, M.D., Class of 1931, of St. Louis Park, Minnesota, died February 1 at age 89. Dr. Miller practiced internal medicine for over 45 years. She was former chief of staff at Abbott-Northwestern Hospital in Minneapolis and clinical professor at the University of Minnesota. For more than 25 years she served as company physician for Northwestern Bell Telephone Company. She is survived by a daughter and a son.

MAYNARD C. NELSON, M.D., Class of 1931, of Minneapolis, died February 7. He was a general practice physician in Lowry and Starbuck, Minnesota, before completing his surgical residency at the University of Minnesota. Dr. Nelson served in the Pacific Theater during World War II as a surgeon for three years. In 1945 he started a surgical practice which he continued until retiring at age 72. He was also chief of staff at Abbott Northwestern Hospital in Minneapolis. Dr. Nelson is survived by his wife, Cora, and a son.

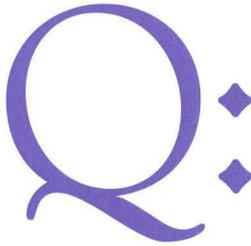
LEONARD T. PETERSON, M.D., Class of 1932, of Bethesda, Maryland, died December 19 at age 87. Dr. Peterson, born in Kanabec County, Minnesota, was a pioneer in the development of a hip prosthesis and was also involved in the rehabilitation of amputees at the end of World War II. He was an orthopaedic surgeon with a private practice in the Washington D.C. area from 1946 until his retirement in 1991. He completed his residency while serving in the Army Medical Corps from 1931 to 1946. He was chief of orthopaedic service at Walter Reed Army Medical Center. Dr. Peterson joined the George Washington University medical school faculty in 1946 and was named a clinical professor of orthopaedic surgery in 1970. He is survived by his wife, Gretchen, and three children.

SAMUEL B. SOLHAUG JR., M.D., Class of 1944, of Edina, Minnesota, died March 13 at age 75. He was former chief of staff at North Memorial Medical Center in Robbinsdale, Minnesota. During his career of more than 40 years, he delivered thousands of babies. After serving in the Navy during World War II, he finished his OB/GYN residency at what is now Hennepin County Medical Center in Minneapolis. He then set up a practice in Appleton, Minnesota. He joined his father's medical practice in Minneapolis after being recalled to the Navy during the Korean War. He served on the staffs of several local hospitals, and was a clinical professor of obstetrics and gynecology at the University of Minnesota. He retired in 1986. He is survived by his wife, Marjorie, four sons and three daughters. ■

THANKS FOR ASKING



Susan C. Dunlop



Can I increase my cash flow through a deferred gift?

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At some point in many investors' lives, it makes sense to convert low-yielding growth stocks to higher yield income securities. Sometimes this is difficult to do because the sale and reinvestment results in a prohibitive capital gains tax.

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You will increase your cash flow by:

- Increasing your annual portfolio income.
- Avoiding capital gains tax.
- Obtaining a tax deduction that will yield a significant tax savings.

Increased cash flow provides stability against a fluctuating future stock market. Assets used to fund the trust reduce your taxable estate and avoid estate taxes. And after your life or the lives of the trust's beneficiaries, or a term of years, the annuity or trust remainder becomes your legacy through a meaningful gift to the Minnesota Medical Foundation.

I would be happy to provide examples of how a charitable gift annuity or charitable remainder trust could increase your cash flow. Please call me at 612-625-6169 or 1-800-922-1663, or return the reply below.

Dear Susan,

_____ Please send me information on Charitable Trusts or Annuities.

Name _____

Address _____

City _____ State _____ Zip _____

Please return to:

Susan Dunlop, Minnesota Medical Foundation, Box 193,
420 Delaware St. SE, Minneapolis, MN 55455-0392

MB-SU96

THANKS FOR GIVING

Dr. John W. Perry

by Jean Murray

A love of sports and a love of medicine combined to make John W. Perry, M.D., a pioneer and pacesetter in the field of sports medicine. A member of the University of Minnesota Medical School Class of 1944, Perry has balanced a 50-year private practice of internal medicine/sports medicine and a lifetime association with athletics at all levels.

Hundreds of athletes — from high school students to NFL football players to Olympians — have known Perry as the “team physician,” and his medical skills on and off the playing field established the rule book for sports medicine today.

Perry grew up in St. Paul and attended Washington High School and Macalester College, where a biological science professor's influence led to his career in medicine. His father, a “sports nut,” had an equally strong influence.

Following medical school Perry was in the U.S. Army Medical Corps in World War II, serving primarily in the western Pacific. His internal medicine training was received in the U.S. Army, U.S. Air Force, St. John's Hospital in St. Paul, the University of Southern California, Los Angeles County Hospital, and the Hospital of the Good Samaritan in Los Angeles.

Perry's sports medicine career began in 1949 when he became team physician for Los Angeles high schools and college athletic teams at USC, UCLA, Compton College, and Los Angeles City College. He was the west coast team physician for the Washington Redskins for 14 years, and was the first doctor to travel with an NFL team — the Los Angeles Rams. Other “firsts” as an NFL team physician include instituting complete physical exams, electrocardiograms, chest x-rays, and laboratory studies for players, as well as x-rays conducted at the stadium during competition.

Perry was team physician for the LA Rams from 1963-70, for the LA Stars ABA basketball team, and the LA Blades hockey teams in the late 1960s. He treated players on visiting professional baseball teams, has served as team physician for the LA Open Golf Tournament for 14 years, for the U.S. Amateur Golf Championship in 1976, and for the PGA Championships of 1983 and 1995. He has attended all 30 Super Bowls — six as unofficial NFL staff physician.

He has also attended nearly all Olympic games, some as team physician, beginning in 1960 when he accompanied 12 athletes to Rome. He was chief medical officer for swimming and diving in the 1984 Los Angeles games, and physician for the official films done by Bud Greenspan at the last five Olympic games and also in Atlanta this com-



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ing summer.

He was founding director of the California Special Olympics in 1969 and has served as a board member for 27 years. Perry was one of the founders of the American College of Sports Medicine, and founder and officer of the NFL Professional Football Physician's Society from 1967-70. He was also a member of the NFL Alumni's program called “Caring for Kids.”

Despite Perry's extensive involvement in athletics, his own medical practice has been equally important. He began a study of arteriosclerosis and lipids in 1951, and was founder of the Clinic for the Study of Arteriosclerosis at Hollywood Presbyterian Medical Center. He has been on the staff of Hollywood Presbyterian from 1949 to 1996, serving as president of staff, chief of the Medical Department, member of the governing board, and as Physician of the Year in 1991. He was founding director of the Medical Center's Foundation in 1979 and remains on the board, raising funds for cancer therapy. He was president of the Hollywood Academy of Medicine in 1966 and has been a member for 45 years.

In 1993 Perry received the Distinguished Citizen's Award from Macalester College, and the same year he received the Philanthropy Medal on National Philanthropy Day for his services to the Special Olympics. He is a member of the Big Ten Club of Southern California, serving as its president in 1984, and received its “Man of the Year” award in 1994.

One of his fondest memories is making the “Sky Writer's Tour” before the opening of the 1984 Big Ten football season (Lou Holtz's first year at Minnesota) and receiving the trophy award for the “Sky Writer of the Year” given by sports writers from Big Ten cities.

John Perry continues to be involved with the University of Minnesota Medical School. He attended his 50-year reunion in 1994, and has hosted receptions for California alumni of the Medical School at Bel-Air Country Club where he is an avid golfer. He is a generous donor to the Minnesota Medical Foundation, and we are grateful for his many contributions. ■

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