

# NORTH DAKOTA MEDICINE

THE UNIVERSITY OF NORTH DAKOTA SCHOOL OF MEDICINE & HEALTH SCIENCES

2009-2010 Donor Issue

## Judy DeMers

**Student Servant  
and Public Servant**

**David Antonenko**

**UND Neuroscience  
Symposium 2010:  
Building Better Brains**

**Summer Vacation?**

**Charting a New Course  
in Rural Health**

Holiday 2010  
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ROBERT O. KELLEY, President, University of North Dakota

JOSHUA WYNNE, Vice President for Health Affairs  
 and Dean, School of Medicine and Health Sciences

**EDITOR** Denis MacLeod  
**WRITERS** Kristine Henke, Denis MacLeod,  
 Juan Pedraza, Sara Rantanen,  
 Laura Scholz, Jessica Sobolik  
**CONTRIBUTORS** Shelley Pohlman  
**GRAPHIC DESIGN** Laura Cory, John Lee, Victoria Swift  
**PHOTOGRAPHY** Laura Cory, Chuck Kimmerle,  
 Shelley Pohlman, Wanda Weber

**COVER ART** Chuck Kimmerle

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**WEBMASTER** Eric Walter

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 501 North Columbia Rd. Stop 9037, Grand Forks, ND 58202-9037  
 e-mail: [shelley.pohlman@med.und.edu](mailto:shelley.pohlman@med.und.edu)  
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# Breaking ground and sowing seeds



AS THIS YEAR WINDS DOWN, IT IS appropriate to look back—and look forward. It has been a memorable year in many regards. I am now into my sixth month as dean of your School after serving for a year as interim dean. I've had the opportunity to engage in a variety of discussions with many stakeholders across the state and have come away from those visits with an even better understanding of the many contributions that the School makes to the health and vitality of North Dakota. The tripartite activities of the School—education, scholarship, and service to the community—are intertwined and interrelated. But they all coalesce around the people of North Dakota and are focused on improving the health of all in our community.

As I look back over this past year, here are a few of our notable achievements:

- We recently broke ground for the construction of a new clinic building in Bismarck to house our Center for Family Medicine and campus offices. This building will permit us to better serve the citizens of Bismarck. The building process brought together the two Bismarck hospitals, the city, the university system, and the SMHS in a very successful effort to find the optimal location and configuration for the facility.
- A new master of public health (MPH) certificate and degree program has been approved by the State Board of Higher Education. As the health care system focuses more on population health and prevention, better training in public health will be essential. Our program is unique in that the two research universities have partnered with each other to offer this program as a truly joint endeavor. By taking advantage of the strengths of North Dakota State University and the University of North Dakota, we have minimized the cost of the program and expanded the educational opportunities for students in a way that has never been done before. We hope to enroll our first students in the next academic year. Although we will require additional financial support from the state to fully implement the program, our budget request has been fully endorsed by the State Board of Higher Education and is awaiting action by the upcoming Legislature.

- Research funding continues to grow substantially. This past year, we were fortunate to receive a nearly 50 percent increase in funding and had our second-best year ever! We are working hard to develop our translational research efforts so the many discoveries in the laboratory can be converted into cures at the bedside.
- We were very pleased to welcome Dr. L. Gary Hart as the new director of our acclaimed Center for Rural Health.

So what's the agenda for the future? Well, much as it has been for the past, we will continue to strive to meet the health care needs of North Dakota, primarily through our educational enterprise and through health care workforce preparation. To accomplish our mission to serve the people of North Dakota, here are some of the plans for this year:

- At the top of our list is to gain approval for our health care workforce plan. Called GOOD for North Dakota (for Growing Our Own Doctors), the plan envisions a two-pronged approach to growing our health care workforce, especially in rural areas: increased retention of our own graduates and an expansion of class size.
- We hope to launch the joint MPH program with NDSU a year from now. The program is designed to meet the needs of students from across the state. We envision that many of the classes will be online, as both universities have extensive

experience with Internet-based instruction. We hope that the extent of integration, collaboration, and cooperation that has been evident between the two institutions will serve as an example of how to break down the walls that can separate us.

...we will continue to strive to meet the **health care needs of North Dakota,** primarily through our educational enterprise and through health care workforce preparation.

- The School will continue to be an advocate for optimizing our system of health care delivery in the state and will work with all of the stakeholders to try to ensure the very best health care possible for all in North Dakota and the region.

I am honored to have been selected as dean of this wonderful School of Medicine and Health Sciences. You have made Susan and me feel very welcome here, and we look forward to the future with optimism and enthusiasm. With your help and support, we can take the School from great to exceptional. All our best wishes to you and yours this holiday season!



Joshua Wynne, MD, MBA, MPH  
Vice President for Health Affairs  
and Dean

## Mohr recognized by national federation

Thomas Mohr, PhD, PT, Chester Fritz Distinguished professor and chair of the Department of Physical Therapy at the University of North Dakota (UND) School of Medicine and Health Sciences, was honored by the Federation of State Boards of Physical Therapy (FSBPT) at its annual meeting and delegate assembly on Saturday, October 16, in Denver, Colo. Mohr received the FSBPT's prestigious 2010 Richard McDougall Long-Term Service Award, which recognizes and honors individuals who have made a lasting, significant and distinguished contribution to the Federation. More specifically, these individuals have been actively involved in Federation activities for at least 10 years, having made a significant contribution of volunteer time, talents, and service to the mission of the organization.



The vision of the FSBPT is that "State licensing boards and their Federation of State Boards of Physical Therapy will achieve a high level of public protection through a strong foundation of laws and regulatory standards in physical therapy, effective tools and systems to assess entry-level and continuing competence, and public and professional awareness of resources for public protection." The Federation of State Boards of Physical Therapy develops and administers the National Physical Therapy Examination for both physical therapists and physical therapist assistants in 53 jurisdictions: the 50 states, the District of Columbia, Puerto Rico and the Virgin Islands. Mohr has been a leader within the Federation as a member of the Federation's board of directors and through his service on numerous committees.

Mohr earned his PhD in Physiology from UND. His areas of expertise and research interests are in neuroscience, biomechanics, electromyography, and motion analysis. He received his Bachelor of Science in Physical Therapy from UND and a Master of Science in Physical Therapy from the University of Minnesota.

In 2006, Mohr earned membership in the Academy of Advanced Item Writers, whose members consist of those volunteer item writers who have made a consistent, lasting contribution to both the quality and quantity of the National Physical Therapy Examination item bank. The FSBPT noted Mohr's professional record with the 2001 Outstanding Service Award, created to recognize and honor individuals who have made a significant and distinguished contribution to the Federation through their volunteer work during the previous 12 months. In 1999, Mohr merited the President's Award from the president of the Federation, who chooses someone who contributed extensive talent and time to the mission of the Federation in the previous year—someone who deserves special recognition for their contribution.

## Pre-Med Day



Ninety-one high school and college students attended Pre-Med Day on October 23 at the School. The students learned about required pre-med courses, explored the history of the School and its nationally recognized patient-centered-learning curriculum, participated in a Q&A forum with current medical students, discussed life as a physician with a panel of local physicians, received an overview of the admissions process, and took part in mock admissions interviews.

## Rural hospitals receive funds through Center for Rural Health

The Center for Rural Health at the University of North Dakota School of Medicine and Health Sciences distributed over \$318,000 from the Small Hospital Improvement Program to 36 rural hospitals in North Dakota.

In addition, for the 12th consecutive year, the Center for Rural Health (CRH) at the University of North Dakota (UND) School of Medicine and Health Sciences has received funding to support rural hospitals through the North Dakota Medicare Rural Hospital Flexibility (Flex) Program.

And the North Dakota Critical Access Hospital (ND CAH) Quality Network, a partner of the Center for Rural Health, has secured \$300,000 in federal funding to develop and implement a chronic care model (CCM) and electronic patient registry (EPR) over the next three years.

## UND hosts heavy metal conference

The 2010 North Dakota INBRE Annual Symposium for Undergraduate Research was held Oct. 28, at the Alerus Center in Grand Forks. The focus of the symposium was "Environmental Research in North Dakota." Health and the environment are the focuses of research conducted under the North Dakota IDeA Networks for Biomedical Research Excellence (INBRE) program, which lends significant financial support to research projects at predominantly undergraduate institutions in the state.

## New assistant deans named at UND School of Medicine and Health Sciences

Joshua Wynne, MD, MBA, MPH, University of North Dakota vice president for health affairs and dean of the UND School of Medicine and Health Sciences (SMHS) has appointed three new assistant deans to the leadership team at the School.

**Thomas M. Hill, PhD**, director of the Office of Medical Education, will continue in that role, but also will assume additional part-time responsibilities as assistant dean for preclinical education. His responsibilities will include oversight of the medical student curriculum for the first two years, and he will also work with Dr. Charles Christianson, the associate dean for clinical education, to enhance and better integrate clinical and basic science learning across all four years of medical school. Of particular importance will be Hill's efforts to update and revamp the patient-centered learning curriculum, and to support and lead innovation in medical education.



**Patrick A. Carr, PhD**, associate professor in the Department of Anatomy and Cell Biology, will be the new assistant dean for faculty development. His responsibilities include working with department chairs to enhance faculty development opportunities, developing communities of faculty for informal development and collaboration, and developing a mentoring program for faculty. Carr's faculty development activities will apply across the spectrum of disciplines at the SMHS, including basic science, clinical science and health science faculty members.



**Kenneth G. Ruit, PhD**, is the new assistant dean for undergraduate and graduate education. Although Ruit will continue as the vice chair of the Department of Anatomy and Cell Biology, he also will assume additional responsibilities, including oversight of curricular development to address the foundational basic science learning of all graduate students, recruitment of graduate students, and oversight of student progress and mentoring. Ruit's responsibilities for undergraduate education include oversight and support of all basic science undergraduate courses.



"While the positions are new, the faculty members who are assuming the positions are old hands at UND and bring a wealth of experience to the positions," said Wynne. "The new assistant deans will help streamline operations and enable faster, more effective decisions to be made within the School."

Gwen Halaas, MD, MBA, senior associate dean for Academic and Faculty Affairs at the SMHS, selected the candidates after an internal search conducted by a three-member search committee, consisting of Tom Mohr, PT, PhD, professor and chair of the Department of Physical Therapy; Jonathan Geiger, PhD, professor and chair of the Department of Pharmacology, Physiology, and Therapeutics; and Stephen Tinguely, MD, professor and chair of the Department of Pediatrics.

All of the positions will report to Halaas. The new positions, which are all part-time positions, were only offered to current full-time faculty members and were created in a budget-neutral manner by using funds that were freed when Dean Wynne relinquished his former position of vice dean.

"I was very pleased with the faculty interest in these positions and the effort and quality of the committee process," said Halaas. "I am very excited to get this new team started and engaged with our faculty to enhance our efforts to provide the best education to our students."

## HOPE for health education

The North Dakota Area Health Education Center (AHEC) announced the Health Occupations Partnering with Education (HOPE) grant program, which can be used to provide a variety of activities for children 18 years and younger who are attending school. The goal is to introduce them to health occupations that will increase their awareness, interest and understanding of health careers. This is an opportunity for rural hospitals, rural clinics, community health centers, and educational systems, K through 12, to work together to develop awareness programs.

For more information, please see the North Dakota AHEC website at [www.ndahec.org](http://www.ndahec.org).

## American Indian Health Research Conference

The 8th Annual American Indian Health Research Conference was held on October 29 at the Alerus Center in Grand Forks, N.D. The conference offered opportunities to discuss research directions, partnerships, and collaboration in health research focusing on American Indians.

## Carlson honored by UND School of Medicine and Health Sciences

A retirement celebration to honor Edward C. Carlson, PhD, was held on Monday, September 20, at the School. Carlson, Chester Fritz Distinguished Professor and the Karl and Carolyn Kaess Professor of Anatomy and Cell Biology, was recognized for completing 40 consecutive years in medical teaching, including nearly 30 as chair of the Department of Anatomy and Cell Biology.

UND President Robert O. Kelley, who holds a PhD in cell and developmental biology, related how years ago he read about Carlson's research in cell biology at the University of Arizona, which drew Kelley to initiate correspondence with Carlson that developed into a lasting friendship. Chester Fritz Distinguished Professor Emeritus Robert C. Nordlie, PhD, lauded Carlson as a teacher and as a colleague. UND Vice President for Health Affairs and SMHS Dean Joshua Wynne, MD, MBA, MPH, noted that "Ed continues to be as productive a researcher today as when he started at the School of Medicine and Health Sciences."

In honor of Carlson's work, the imaging center at the School of Medicine and Health Sciences was named the Edward C. Carlson Imaging and Image Analysis Core Facility. Interim Chair of the Department of Anatomy and Cell Biology, Jonathan D. Geiger, PhD, a Chester Fritz Distinguished Professor and chair of the Department of Physiology, Pharmacology, and Therapeutics; and Kenneth G. Ruit, PhD, associate professor of the Department of Anatomy and Cell Biology, presented the honor to Carlson.

The Carlson Imaging Facility consists of a light microscopy core and an electron microscopy core, which provide advanced instrumentation for researchers interested in investigating biological processes at the cellular, subcellular, and molecular level.

Carlson earned his bachelor's degree in biology and chemistry from Bethel College in St. Paul, Minn. He came to UND as a PhD student in 1966, where he received his PhD in Anatomy in 1970. After graduating from UND, he taught for seven years at the University of Arizona and four years at the University of California–Davis. Carlson returned to UND when the once-in-a-lifetime opportunity opened to chair the department from which he obtained his PhD.

In 1984, Carlson initiated an Anatomy Interchange, a "biosocialization event," between his department at UND and the University of Manitoba Department of Human Anatomy and Cell Science. After a morning of science, participants were free to explore the host university and city and then finish the day with a barbecue at a faculty member's home. Carlson's goal was to not only encourage scientific research but also, more importantly, encourage international colleagues to "get to know one another." The two departments have been meeting nearly every fall since.

Carlson's "retirement" is a phased retirement; it will take place over the next five years. He will have full use of

his laboratory, a technician, and students to help him continue his research on protecting blood vessels from damage caused by diabetes.

"Our student are so bright and have an amazing work ethic—they keep me feeling young and constantly thinking and discovering new things about science," said Carlson.

## Joggin' with Josh

Dean Joshua Wynne invited all medical and health sciences students, faculty, and staff to advocate healthful lifestyles by joining him for Joggin' with Josh, informal 5- or 10K walks, jogs, or runs, on August 12 and September 28.

"The UND School of Medicine and Health Sciences wants to continue to practice what it preaches, that is, healthful lifestyles for better health," said Wynne.

The dean spoke to the participants before each event, and each participant received a Joggin' with Josh T-shirt. The event attracted students, faculty, staff, family, and pets from not only the School but across campus.



## Integrative Medicine lecture series

Debra G. Bell, MD, delivered two Integrative Medicine Lectures at the School. On September 27, she presented "Nutrition Matters: Dietary Facts for Treatment and Prevention of Disease." On October 19, Dr. Bell spoke about "Commonly Used Dietary Supplements: Clinical Applications and Evidence-Based Facts."

Bell, a member of the Department of Family and Community Medicine at the UND School of Medicine and Health Sciences, is an integrative medicine family physician from Crookston, Minn.

The goal of the series is to bring awareness and education of integrative medicine to students, faculty, and others at the UND School of Medicine and Health Sciences as well as the medical community. Both lectures were open to the public.



## McHugo named director of Physician Assistant Program at UND medical school

Jeanie Mchugo, PhD, was named program director for the Physician Assistant Program in the Department of Family and Community Medicine at the University of North Dakota (UND) School of Medicine and Health Sciences (SMHS).



McHugo is an assistant professor in the Department of Family and Community Medicine at the UND SMHS. She has been a physician assistant since 1998 and involved in PA education since 2004. Her clinical experience includes urgent care–family medicine, general medicine with an emphasis on psychiatry, and clinical and surgical orthopedics.

“Dr. Mchugo has been a dynamic part of the program for several years,” said Robert Beattie, MD, chair of the UND SMHS’s Department of Family and Community Medicine. “She has been engaged in professional PA activities at the national level. Her talents and dedication will see her being a tremendous leader for the PA program.”

McHugo earned a Bachelor of Science in Biology in 1993 from Mankato State University, a Bachelor of Science in Physician Assistant Studies in 1998 from the University of South Dakota and a Master of Physician Assistant Studies in 2000 from the University of Nebraska–Omaha. She completed her PhD in Higher Education: Teaching and Learning at UND in 2008. She is a member of the American Academy of Physician Assistants, the Physician Assistant Education Association and the North Dakota Academy of Physician Assistants.

Her research interests include clinical teaching evaluation and improvement, student and program assessment, teaching and learning strategy, and andragogical (adult) learning theory. Mchugo’s graduate teaching responsibilities include online anatomy, EKGs, history and physical exam, primary care coursework, and specialty clerkships. She also coordinates all aspects of clinical testing and maintains a Preceptor Community Network site for online evaluations, resources, and increased communication with primary care preceptors.

“I am honored to serve as director of the UND PA Program and look forward to a more active role in the School of Medicine and Health Sciences, the university and the physician assistant profession,” said Mchugo.

In 2005, Mchugo received the Faculty Award for Professional Excellence from the Academy of Physician Assistant Programs, now the Physician Assistant Education Association. She is a member of Pi Alpha, the national honor society for physician assistants.

McHugo and her husband Mike, a radiologic technologist, live near Thompson, N.D., with their six children: Molly, Ryan, Allison, Emily, Isaak, and Grace.

## Nordlie reflects on life in science

Chester Fritz Distinguished Professor Emeritus Robert C. Nordlie, PhD, of the University of North Dakota School of Medicine and Health Sciences (SMHS) Department of Biochemistry and Molecular Biology, has published a recollection of his scientific work at the School in the September 11 issue of the international journal *Life Sciences*. James D. Foster, PhD, research assistant professor in the department and a former student of Nordlie’s, was coauthor.



*Life Sciences* invited Nordlie to provide a personal recollection of his career as a distinguished scholar in biochemistry, particularly his “pre-eminent work in the biochemistry of glucose-6-phosphatase,” an enzyme that continues to be the active focus of research for pharmaceutically regulating blood glucose concentration, which has implications for the treatment of diabetes as well as heart, eye, and kidney disease.

“I was honored to be the last PhD student that Dr. Nordlie hooded during graduation at UND,” said Loren E. Wold, reviews editor for *Life Sciences*. Wold received his PhD in 2003. He is principal investigator in the Center for Cardiovascular and Pulmonary Research for the Research Institute at Nationwide Children’s Hospital in Columbus, Ohio, and an assistant professor at the Ohio State University in Columbus.

Nordlie received his PhD in Biochemistry from UND in 1960 and joined the faculty of the SMHS in 1962 as the School’s first James J. Hill Research Professor. His 38-year career as a professor included serving as chair of the Department of Biochemistry and Molecular Biology for 17 years. He is recognized as an outstanding educator and scholar, and is internationally recognized for his work on metabolic enzymes and the maintenance of blood glucose levels.

“I am also honored to call him a friend,” said Wold. Read Nordlie and Foster’s full article at <http://bit.ly/b64dGQ>.

## Wilsnack selected as Fellow by American Psychological Association

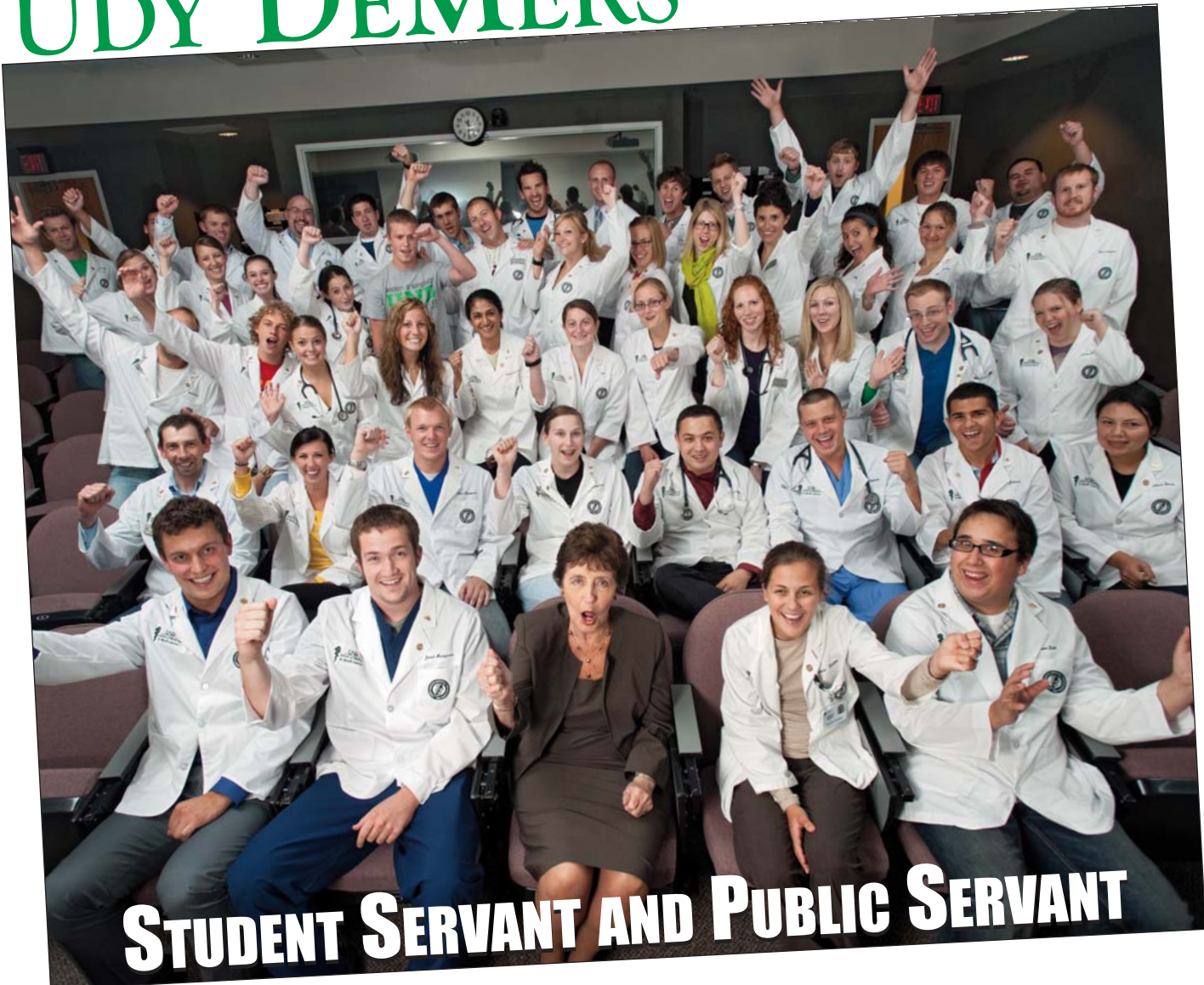
Sharon Wilsnack, PhD, Chester Fritz Distinguished Professor, Department of Clinical Neuroscience, has been selected as a Fellow by Division 35 (Psychology of Women) of the American Psychological Association.



Fellow status is based on “evidence of unusual and outstanding contributions that have had national or international impact in the psychology of women.”

The Fellow awards were announced at the August convention of the APA in San Diego, California. Dr. Wilsnack has been a Fellow of APA’s Division 50 (Addictions) since 1997.

# JUDY DEMERS



By Juan Pedraza

WHEN JUDY DEMERS, THE UND School of Medicine and Health Sciences' longtime associate dean for student affairs and admissions, retires this December, it'll be with the well-wishes of more than a thousand physicians who once were students here.

"All in all, a terrific ride," said DeMers, who also fit a successful political career into her life as a mom, spouse, and medical school administrator and teacher.

It sure didn't start out that way.

"My parents thought that it was a waste of time for women to go to college," DeMers said.

But DeMers went on to graduate from UND's College of Nursing summa

cum laude in 1966 and earned a master's degree in education from the University of Washington in 1973. Three years into her nursing career, she was asked in 1969 to come to UND to teach and, later, to become a top administrator.

"It was never just a job to me; it has always been a commitment to the students and to the state of North Dakota—a commitment I hope to continue in other ways in future years," DeMers said.

"The thing that I am proudest of is the help that I've been able to provide to our medical students every year since I started at the med school," DeMers said. "It's good to know that I've made a difference in their success

in going through medical school and their ability to practice medicine. That's why their graduation day is very meaningful for me. In my 27 years here, I've worked with about 1,500 graduates. That's a big family."

Ultimately, DeMers noted, it's about nurturing the capacity of each student to do their best in preparing for a career in medicine. And the preparation they get at UND is a key factor in the state's quality health care system.

"If the School didn't exist, it would be very difficult for North Dakota to maintain the quality health care system that it has," she said.

DeMers also is very proud of the School's relationship with the state's—and the country's—Native Americans through the Indians into Medicine program.

"The INMED program has been excellent since its inception," DeMers said. "It's really a vital part of the SMHS—it provides a diversity that we otherwise wouldn't have."

### **Distinguished career**

DeMers is both a registered nurse and certified public health nurse. She has earned several dozen awards and honors going back to the very start of her career, garnering the Beck Award for Nursing in 1965 and several Nurse of the Year awards, including the statewide award in 1983; she was named to the North Dakota Nurses Association Hall of Fame in 2002.

"Judy embodies the best of the North Dakotan ethic, and all that is good at the School of Medicine and Health Sciences," said Dr. Joshua Wynne, UND vice president for health affairs and dean of the School of Medicine and Health Sciences. "She is honest, hardworking, smart, helpful, and dedicated to her students."

From 1970 to 1972, DeMers was associate director of the MEDEX project in the SMHS Department of Family and Community Medicine, in which former military personnel received education and training to become mid-level health practitioners. The program later evolved into the Family Nurse Practitioner

Program and today is known as the Physician Assistant Program.

DeMers was a research associate in the Office of Research and Medical Education at the University of Washington's medical school through 1977 before returning to UND as assistant professor and director of the Family Nurse Practitioner Program, where she served until 1982. She also was director of the UND SMHS's Focal Problems Course until 1989, and she served for a year as director of undergraduate medical education in the Department of Family Medicine.

From 1982 through 1983, DeMers was associate director of the SMHS Office of Rural Health and was promoted to the rank of associate professor. In 1983, DeMers was appointed to her current position.

In 1982, DeMers was elected to the North Dakota House of Representatives, where she served until 1992. She was elected to the North Dakota State Senate in 1992 and served there until 2000. In both houses, DeMers served with distinction on numerous legislative committees.

In 2009, DeMers received the School's Hippocratic Dignity Award. This year, she earned the Outstanding Service Award from the American Association of Medical Colleges Central Group on Student Affairs.

"She has given extraordinarily outstanding service to our students for decades, and while she will be irreplaceable, she has earned her 'retirement,'" said Wynne. "Knowing Judy, though, her 'retirement' likely will be anything but 'retiring,' and I suspect she will continue to find ways to serve, as she has for decades."

"I've received a lot of really nice letters since the announcement earlier this year that I was going to retire," DeMers said. "Basically these are former students talking about the difference that I've made in the lives of medical students. I'm definitely very proud of that—we have an atmosphere here that is conducive to students talking about their concerns, working on problems that they had so that they could become successful."

Judy embodies  
the best of the  
**North Dakotan ethic,**  
and all that is good at the  
School of Medicine and  
Health Sciences.

# Retirement?

# WHAT RETIREMENT?



By Juan Pedraza

FOR DAVID ANTONENKO, MD, PhD, former chair of surgery at the UND School of Medicine and Health Sciences, “retirement” is defined by a calendar that’s still full of patient appointments, resident mentoring, and heading up a sophisticated surgery simulation lab.

“I work two days a week at Altru Hospital (Grand Forks), I teach residents some surgery basics, and I’m involved in the surgical simulation lab, which I set up at Altru,” said Antonenko, an Edson, Alberta, native who officially retired earlier this year after 21 years at UND. He’s also writing a textbook chapter.

Antonenko, whose dad was a coal miner, grew up in a fossil-fuel-rich area that’s seen energy economy ups and downs familiar to North Dakota.

“I paid my way through college and medical school at the University of Alberta at Edmonton, working in the oil fields,” on the rigs, in gas plants, and in trucking, he said. “I entered medical school when I was 20 after completing two years of college, and I graduated from medical school two weeks before my twenty-fourth birthday.”

“After I did my residency, beginning the third year after I graduated from medical school, I did a PhD in

experimental surgery," Antonenko said. He was inspired by the family physicians who back then did appendectomies, hernias, and other minor surgery.

"I also discovered early that it was a lot of fun to work with patients, residents, and students, so I developed a real passion for teaching medicine," Antonenko said. "Teaching is an integral part of medicine, even if you're not in a classroom in front of students. You're teaching when you're counseling patients or talking with nurses about a recommended therapy, or when you're writing for a textbook."

On his way to faculty status, Antonenko got a Trauma Critical Care Fellowship at Wayne State University, where he later joined the staff as director of surgical critical care units.

When he put all that together as a faculty member at UND, Antonenko developed a keen sense of the primary functions of a medical school.

"First, it's to conduct medical research," said Antonenko, who, in addition to his clinical practice in surgery, has PhD research credentials. "Second, it's to educate medical students to become physicians and train these physicians in residency programs. And third, it's to educate and prepare allied health professionals."

"It's also a function of a good medical school—an engaged medical school—to involve and educate the people of the state as to the value of the school," Antonenko said. "For example, most people know that about half of the state's physicians are graduates or have had some part of their medical education at UND. But we have to educate people as to what the medical school actually does."

And that includes service to the state.

"My feeling is that the UND School of Medicine and Health Sciences serves the physicians and other health care professionals in the state, and we should be trying all possible ways to help them particularly in the rural environment," he said. "Part of our mission is to support them because we rely so much on voluntary teaching. For example, in our department, surgery, more than 90 percent of the teaching of third- and

fourth-year medical students is done by working physicians throughout the state who volunteer their time to teach."

Caring for patients, Antonenko observed, requires a team approach.

"If you're a physician, you can't work without nurses, without physical and occupational therapists, without pharmacists and lab techs," Antonenko said.

At his retirement reception earlier this year, Antonenko was recognized for his 21 years of teaching and leadership. He practiced critical care medicine and general surgery for Altru Health System in Grand Forks, where he was director of Surgery Critical Care and director of Trauma Services.

Colleagues from around the region joined UND Vice President for Health Affairs and SMHS Dean Dr. Joshua Wynne in paying tribute to Antonenko's storied career.

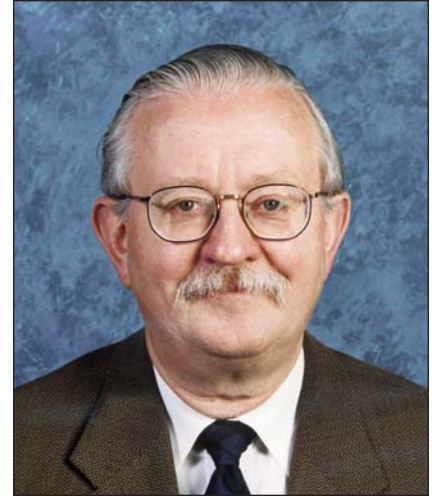
"He contributed to the education of a generation of medical students and surgical residents," said Wynne.

Dr. Robert Sticca, professor, current chair and program director of the Department of Surgery, noted Antonenko's national influence on the progress of surgery. Dr. Mark Siegel, medical director of Surgical Services at Altru Health System, said Antonenko was vital in the establishment of Altru Hospital as a Level-II trauma center. "He always has the care of the surgical patient in mind," said Siegel.


"Dr. Antonenko manifested three qualities: vision, tenacity, and leadership," said Dr. Mark Jensen, chief of surgery for the VA Hospital in Fargo. "He provided exemplary service and support for our veterans, and he provided years of guidance and wisdom for our surgical faculty."

Ultimately, it's all about a career thinking about and working for the next generation.

"By stimulating the desire to learn, you help the student and ultimately the patient," said Antonenko in thanking his colleagues at the retirement ceremony. "Teaching surgery has been my life." 🌿



David R. Antonenko



# Neuroscience Symposium

## Building Better Brains

Inaugural conference spotlights research strengths at the School.

By Juan Pedraza

THE NATIONALLY RECOGNIZED Center of Biomedical Research Excellence (COBRE) neuroscience group at the University of North Dakota (UND) School of Medicine and Health Sciences recently hosted a neuroscience symposium titled “Building Better Brains.” It was the sixth symposium organized by the group since receiving its initial grant in 2002 from the National Center for Research Resources, part of the National Institutes of Health.

“This symposium was an excellent opportunity for all of us to learn from each other with the expressed interest in discovering underlying causes of and possible treatments for a number of neurodegenerative disorders, including Alzheimer’s disease, Parkinson’s disease, traumatic brain injury, and epilepsy,” said Dr. Jonathan Geiger, Chester Fritz Distinguished Professor and chair of the Department of Pharmacology, Physiology, and Therapeutics, as well as interim chair of Anatomy and Cell Biology and principal investigator of the COBRE grant.

The symposium highlighted work conducted at UND as well as the research of two highly regarded neuroscientists who discussed their work on Alzheimer’s disease, Down’s syndrome, epilepsy, neural repair, Parkinson’s disease, schizophrenia, stroke, and stem cell therapeutics. The symposium also featured a special presentation by a noted UND biochemist, Dr. Roxanne Vaughan.

Frank M. LaFerla, PhD, Chancellor’s Professor of Neurobiology and Behavior, and director of the Institute for Memory

Impairments and Neurological Disorders (MIND) at the University of California–Irvine, has been at the forefront of research into understanding Alzheimer’s disease. His presentation was titled “Animal Models of Alzheimer’s Disease: Translational Successes and Challenges.”

John R. Sladek, PhD, is a professor in the Department of Pediatrics and Neurology at the University of Colorado–Denver. He is a leader in neural repair and regeneration. Since 1974, he has been studying neural repair mechanisms for Parkinson’s disease and Down’s syndrome. He spoke about “Stem Cell Therapeutics for the Brain.”

Roxanne Vaughan, PhD, is a professor in the UND SMHS Department of Biochemistry and Molecular Biology. She focuses on explaining the workings of the dopamine transporter, DAT, which regulates a lot of complex brain activities. DAT is also a major site of action of psychostimulants such as cocaine and amphetamine.

As part of this year’s symposium, Geiger delivered a presentation that showcased the enormous success of the COBRE program at UND.

“The data show how well we’ve done,” he said. “Since we started (with the COBRE grant) in 2002, the number of manuscripts that we’ve published has gone up more than threefold, and it’s gone up that much again this year, and we’re not even through the complete year.”

Geiger told the symposium that the COBRE system has had a major impact on the research portfolio at the School.



“We’re dramatically outperforming other IDeA [Institutional Development Award] states,” Geiger said. “From 2001 to 2009, COBRE delivered about \$1 billion to IDeA states, plus those states were awarded about \$500 million from other NIH sources; that’s a 160 percent increase. But here at the School of Medicine, we went from very little money—\$190,000—to \$2 million, an increase of 750 percent. What we’re seeing now is that for every dollar in COBRE funding, our researchers are bringing in another dollar from federal (mostly NIH) sources.”

### **New grant launched to stimulate collaborative research**

“One of the truly exciting things that happened this year was that we earmarked \$200,000 from our COBRE grant for a new pilot grant program to encourage collaborative or team-based research. We actually awarded \$260,000,” Geiger said.

“The idea is to have three or more scientists come together as principal investigators,” Geiger said. “That means having at least three people intellectually committed to the success of the project. It’s meant to encourage people to collaborate closely. One group has already submitted an NIH grant, where most of our funding comes from, and the groups all seem to be very enthusiastic about this concept.”

Among the big-picture conclusions that scientists at the symposium got is that UND is a full-mission institution, Geiger observed.

“Service, research, and education are completely dependent upon each other; they support each other, and they’re actually inextricably linked,” Geiger said. “Absolutely, we’re proud of our research, but we’re also really good teachers. See the long list of top teaching awards—the Golden Apple, Portrait, and Block Instructor awards—that COBRE researchers in the medical school have received since 2002. A lot of people have gotten a lot of awards. The COBRE experiment is working.”

For Dr. Lucia Carvelli, a relative newcomer to the UND neuroscience research team, this year’s symposium was energizing and inspiring.

“It’s terrific for a group of researchers to get together like this,” said Carvelli, who focuses on a key mechanism in the brain that can lead to addiction and is linked to ADHD. “The symposium was also a very good way for researchers elsewhere to learn more about what we are doing. Moreover, I definitely heard about developments that can help me move my research ahead.”

For Saobo Lei, MD, PhD, a UND electrophysiologist whose work has been published in the top-rated scientific journals in the world, the best value of the symposium is networking.

“Sharing our results with other researchers, comparing notes in one focused place, is a great benefit,” said Lei, who studies neuronal activity at the molecular level. “We get to talk to people and get some input. And we find opportunities for collaboration.”

Left to right: UND Vice President for Research and Economic Development Phyllis Johnson, PhD; U.S. Senator Kent Conrad; and Chester Fritz Distinguished Professor Jonathan Geiger, PhD, chair of the Department of Pharmacology, Physiology, and Therapeutics.



2010 Summer Research Students: For a complete list of names, please visit us online at [www.ndmed.org](http://www.ndmed.org).

# Summer Vacation?

UND's School of Medicine and Health Sciences Summer Research Program gives budding scientists a slice of life in the lab

By Laura Scholz

EACH YEAR, THE SCHOOL OF Medicine and Health Sciences hosts approximately 50 undergraduate students for a summer of hands-on experience in laboratory research, all under the leadership of UND's professors, graduate students, and senior undergraduates.

"This is a unique opportunity for students to hone their research, writing, and presentation skills, and we really focus on recruiting undergraduate students who may not have those opportunities on their own campuses," said Van Doze, PhD, associate professor in the Department of Pharmacology, Physiology, and Therapeutics, and lead organizer of the summer research program.

Students are selected for the competitive program based on their outstanding test scores, academic achievements, intellectual curiosity, and

future career goals, and are then matched with labs and senior faculty based on their interests and particular field of study.

In the summer of 2010, the university hosted 50 undergraduate researchers from in-state institutions such as Minot State University and Dickinson State University as well as colleges and universities across the country, including College of St. Benedict and St. John's University, Concordia College, Illinois Wesleyan, Oglala-Lakota College, St. Olaf College, and the University of California-Santa Cruz.

Once students arrived on campus, they received specific research training in the laboratory under the guidance of a team of faculty advisors, senior undergraduates, graduate students, postdoctoral fellows, and lab technicians. They worked on projects within the Departments of Anatomy and



Cell Biology; Biochemistry and Molecular Biology; Pathology; Pharmacology, Physiology, and Therapeutics; and the Center for Rural Health.

"These students deal with competition during the school year, so our program really focuses on collaborative learning, teamwork, and the joy of pure research," said Donald Sens, PhD, professor in the Department of Pathology.

In addition to being matched with a faculty mentor, students worked closely with senior undergraduates or graduate students, who provided technical direction as well as help with general college and career mentoring.

"This peer-to-peer mentoring is an essential aspect of our program," said Doze.

"It gives our students an added support network and a greater understanding of just how much collaboration is involved in laboratory research."

Throughout the summer, students attended regular workshops on topics like "Responsible Conduct in Research," "Use of Animals in Research," "Laboratory Safety," and "Scientific Writing" as well as weekly faculty talks to discuss everything from current research trends to scientific discovery to applying to graduate and medical school. In addition to more formal classroom and research activities, the students gather for more informal activities such as walking and biking on the Greenway, kayaking, "movie night" and picnics.

"We eat a lot of fried chicken," joked Doze.

The out-of-town students room together in the dormitories, which adds to the general camaraderie.

And when not eating fried chicken, the students conducted real-world, scientifically significant research. This past summer, specific projects ranged from discovering biomarkers of bladder cancer, breast cancer and heavy metal-induced chronic kidney disease to working with genetically engineered mice to determine the effects of norepinephrine on neurogenesis and cognition in the hopes of counteracting the effects of cognitive decline and

neurodegeneration associated with aging and neurological disorders and discovering how the brain's immune effector cells contribute to both regenerative and degenerative processes.

At the end of the summer, students had the opportunity to present their research findings—as well as learn important technical writing and presentation skills—at a final poster session. Many of UND's summer research students go on to present at the North Dakota Experimental Program to Stimulate Competitive Research (EPSCoR) conference, the North Dakota IDeA Network of Biomedical Research Excellence (INBRE) Annual Symposium for Undergraduate Research, the Regional American Society for Biochemistry and Molecular Biology, the North Dakota Academy of Science Meeting, and other scientific gatherings across the country.

"We really want our students to have an opportunity to share and present their work to their peers as well as others in the scientific community," said Doze.

This unique opportunity is made possible through funding from several sources, including the National Science Foundation, the National Institutes of Health, Job Service North Dakota, North Dakota EPSCoR, the Ronald McNair Program, and the Dean's Office of the UND School of Medicine and Health Sciences.

"We are lucky to have funding from a variety of sources to make this experience possible for students who might otherwise not be able to have this type of intensive research experience as an undergraduate," said Sens.

The students are equally effusive about the program.

"After finishing the program, our students report increased confidence in their lab and presentation skills, as well as their desire to pursue post-baccalaureate studies in either medicine or basic science research," said Sens.

That's a summer vacation well-spent.



Donald Sens



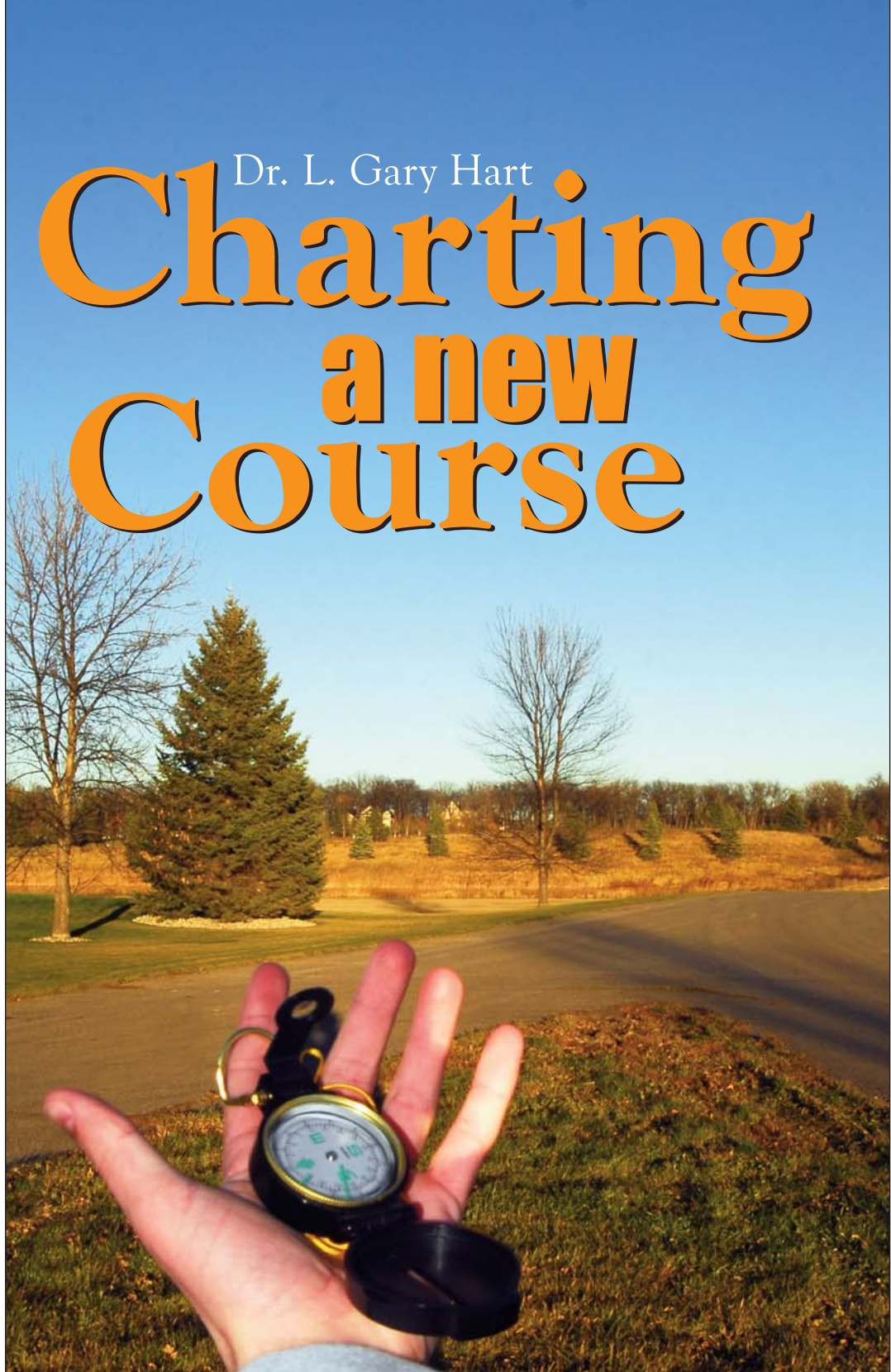
Van Doze

The experts are the  
**people in emergency rooms**

at two in the morning,  
who are often  
underpaid or under-helped,  
and it's our job to figure out  
what can be improved,  
and how we can help.

Dr. L. Gary Hart

# Charting a new Course



By Kristine Henke

DR. L. GARY HART IS THE THE CENTER FOR RURAL Health's new director. Hart is a nationally recognized expert in rural health care delivery and health care workforce, and the CRH is excited to have him on board.

Although his background is in medical geography, Hart says he has always focused on health care. After graduating from college, he was weighing his options between attending law school and sticking with the social sciences. He

decided the social sciences were the route for him, and he began a master's program at the University of Utah, where his focus was health care, geography, and access to care. Hart has a Bachelor of Science in Geography and a Secondary School Teaching Certification from the University of Utah, where he also earned his Master of Science in Geography.

After earning his master's, Hart was attracted to the University of Washington Department of Geography by Dr. Richard Morrill. Morrill, who in Hart's opinion is "one of the nation's best geographers," did a lot of health care research. Morrill has been responsible for redistricting voting regions and has been the head of the advisory committee for the Census Bureau, to name just a few of his many accomplishments. While at Washington, Hart was a graduate of the Doctoral Opportunities Program in the Department of Health Services. He received his PhD in Medical Geography from the University of Washington, stayed there, and eventually added 20 years of directing both the University of Washington Rural Health Research Center and its Center for Health Workforce Studies to his distinguished résumé.

### Why North Dakota?

Hart shares that several things drew him to the prairie from Tucson, Arizona. He has always been familiar with the reputation and work of the Center for Rural Health, has worked with many CRH employees, has visited the area a few times, and is a friend of former CRH director Dr. Mary Wakefield.

One of the appeals of making the move north was the strong reputation the CRH has always had. When Hart was in Washington, which is one of the top producers of family medicine physicians in the country, he took note that the UND School of Medicine and Health Sciences was also one of the nation's best. If one state beat Washington, it was either North Dakota or Minnesota. After 20 years of experience with family medicine, Hart was excited to be able to collaborate with that department in Grand Forks, while being a part of the CRH.

Another big draw for both Hart and his family was the chance to get away from the "big-city life." His wife, Shelly, is originally from a town of about 800, so they feel coming to Grand Forks allowed them to "get the lifestyle they wanted." Living in a rural setting—where they get to commute on a gravel

road, be between fields of potatoes and sugar beets, and allow their six-year-old to run free with their chickens—has allowed them to be, as Hart puts it, "happy as clams."

### What's next for the Center for Rural Health?

Hart's first thought, "If it isn't broken, don't fix it. Of course, we can always do better, but with programs like RAC (the Rural Assistance Center), which is a national resource that everybody uses, I just want to make sure we maintain that quality and be supportive of it."

Hart feels the biggest area of change to the CRH will be the addition of more research. "The mission of the CRH is to serve the rural folks of North Dakota and the country. If when the dust clears, we have done a good job and have been successful, it will be measured by increased health status and improved access to quality health care providers for the rural population."

"We can't make ourselves 'fatter,' that isn't the goal. It's not about us," Hart says. "It's about doing things out there for North Dakota and the country. The experts are the people in emergency rooms at two in the morning, who are often underpaid or under-helped, and it's our job to figure out what can be improved, and how we can help."

"So, research. What will it do? This is something I want to be very clear about. I don't want to do research for research's sake. I have never been interested in that. The research we want to expand is policy-relevant research, research that makes a difference for rural people. If we can, we want to provide the research and policy analysis that helps create good rural health policy and helps eliminate bad rural health policy."

So begins a new era for the Center for Rural Health. The unknowns are out there, but Hart and his team are excited to take them on full speed all with one goal in mind: to support rural health care.



Gary Hart

# Making Sure that **Our Children** are Protected



By Kimberly T. Krohn

THE UND RESIDENCY PROGRAM IN Minot trains physicians to be family physicians who are well-prepared for a rural setting. The program runs a family medicine clinic, in which about 20,000 patient visits a year are completed. The patient visits may include prenatal care,

sports physicals, colonoscopy, diabetes and other chronic disease management, discussion of preventive care, treatment of acute illness, and a number of different issues. I am the program director of the Family Medicine Residency Program in Minot; I practice the full scope of family

medicine in addition to providing mentorship, instruction, supervision, and modeling for our physicians in training. I have become involved in yet another area of medicine by becoming medical director of the UND Northern Plains Children's Advocacy Center. Through this appointment, I have agreed to participate with a multi-disciplinary team in the evaluation of children suspected of having been sexually abused.

Estimates are that 150,000 children per year in our country are abused; 9.6 percent of girls and almost 7 percent of boys are sexually abused. Misdiagnosis of signs of abuse is common.

Our local children's advocacy center joined the other two centers in North Dakota in 2007. The three centers are members of a national organization called the National Children's Alliance, or NCA, developed in 1987. Among other things, the NCA provides accreditation standards for the more than 700 CACs in existence throughout the United States. Four regional training centers are supported by the U.S. Department of Justice. Most CACs, however, including ours, depend a lot on donations and grants to support the important work that they do.

The UND Northern Plains CAC has evaluated about 90 new children in 2010. Seventy percent are female, 31 percent less than 7 years old, 88 percent less than 13 years old. Our multidisciplinary team has also continued to process the cases started in previous years. Several of these cases have resulted in charges with successful prosecutions. Our multidisciplinary team includes representatives of child protection services, law enforcement, prosecutors' offices, mental health, victim advocacy, and medical care. Since our center works with several surrounding counties, two Indian reservations, the FBI, and performs courtesy evaluations for other jurisdictions, the team effort can be intricate. Our Ward County team meets monthly, however, to work on local cases.

The first CAC was started by an

Alabama prosecuting attorney in 1985. His concern was that cases be evaluated objectively and that the children be interviewed and evaluated in a fashion that would minimize additional trauma. Since then, a large body of literature and training programs have been developed to ensure that medical personnel and forensic interviewers have the resources to accomplish this. The CACs must have forensic interviewers, forensic medical personnel, therapeutic interventions, victim's advocacy, and case review and tracking. And when any of the cases go to trial, the forensic interviewers and medical people (yes, I) have to be there to testify.

When I see a child for a forensic medical exam, I usually start by talking to him or her about the checkup that will follow. Almost all of our exams are non-acute, meaning the assault has not occurred in the last few days. My job is to evaluate the child for medical needs related or unrelated to abuse, to collect evidence, to consider alternative explanations to any physical findings beyond sexual abuse, to reassure parents and the child, and to document findings carefully. As a CAC, we commit to doing that in an age-appropriate environment.

Beyond individual evaluations of children, I work with our team to educate other team members about my role, and to learn more about their roles and the skills they bring to the evaluation. Since our CAC is the only one in the state embedded in an educational program, I am able to also share this area of practice with our physicians in training. My belief is that in their future practices our doctors in training, because of their exposure to our CAC, will be better equipped to recognize, refer, and treat children who have been abused. I also work with the rest of our team to keep my knowledge and skills up to date and to engage with the communities we serve in an effort to prevent the abuse and exploitation of children. I know that through this work we make our communities safer and more healthful for the children in them. 🌱



Kimberly T. Krohn

# OUT OF AFRICA

By Sara Rantanen



At Nelson Mandela Metropolitan University, Racek was able to practice for and play in two games for the soccer team. Her teammates spoke Xhosa, which is a click language. The team tried for a week to get her to learn their click names before telling her their much easier to pronounce nicknames.

IN EARLY 2007, ADRIANNE RACEK, now a second-year med student at the UND School of Medicine and Health Sciences, was given an amazing opportunity. As a junior at the College of St. Benedict in St. Joseph, Minn., Racek was working toward her biology major with a focus on premed when she entered a competitive interview process for the chance to study abroad in eastern South Africa. She was among the 28, mostly pre-health care professionals and education majors, chosen.

Starting in January 2007, Racek attended Nelson Mandela Metropolitan University in Port Elizabeth, South Africa. The majority of her studies were focused on South African culture; the classes ranged from history to literature and even to South African jazz. On Mondays and Tuesdays, the students were given the opportunity to work at

the House of Resurrection Haven for people with AIDS. Racek offered her care in the nursery, where she helped feed, change, prepare meals for, and play with the children, most of whom were orphaned or abandoned. The children at the Haven were mostly HIV positive or too young to test since test results aren't reliable until age two. They were receiving anti-retroviral therapy and cared for by nurses and nuns. The Haven provided care for all ages, but because of political, socioeconomic, psychological, and gender pressures, most adults were not managing their own HIV. "The adults that we saw would usually come in just on their last legs," said Racek.

As part of the NMMU's curriculum, Racek and the other students took a Community Partnership and Development class. "The class was wonderful because it made us more culturally aware and

sensitive, and taught us to open our minds from being brought up in an individualistic, American culture and adapt to a collectivistic mind-set," she said. It was an incredible experience since we could directly translate our classroom knowledge into real-life settings, and the lessons learned will continue to be a lifelong skill." The students participated in fund-raising and community service projects, and as a result, they raised about \$1,500 for the Haven. When deciding what the money should go toward, the students thought they knew exactly what was needed. "I think a lot of us came in and we were like, 'Well, they need this,' or 'We'll buy them this.' But then when we actually did ask the staff what they wanted, it was nothing like our expectations coming in," said Racek. Most of the money went to kitchen supplies such as knife sharpeners and more cooking supplies. The rest of the money went toward medications since the Haven wasn't receiving funds from the government.

Racek was in South Africa until May 2007, when she returned to St. Benedict and graduated in May 2008. After graduation, she worked at St. Joseph's in St. Paul, Minn., where she worked mainly in cardiac surgery for a perfusion company. Her main focus was assisting the perfusionists and anesthesiologists in cardiac monitoring, central line placement, OR lab tests, patient transport, and intra-aortic balloon pumps when needed. This experience gave her a taste of what the "call life" was like. As an effect, Racek thought she'd like to go to med school for surgery.

When choosing a medical school, Racek had known since high school about UND's School of Medicine and Health Sciences and the School's great focus on patient-centered learning. The PCL program was one of the main deciding factors for her. "The patient-centered learning is why I came here, so that still stands out," she said. "I was swayed, I guess, even in high school, having known about the curriculum." Her father is a UND Law School alumnus who highly regards his educational experience; growing up

exposed to that certainly helped influence her as well.

Racek spent this past summer as an intern at the Mayo Clinic in Rochester, Minn. She assisted Dr. Myra Wick with clinical research in Trial of Labor After Cesarean (TOLAC), a high-interest topic in clinical practice. Racek and Dr. Wick did a retrospective chart review, in which they took records from the past 10 years and plugged in the Grobman et al. nomogram from a maternal-fetal medicine unit study that was conducted at a 19-center East Coast hospital network. "We wanted to see if the predicted nomogram would work on this Midwest population," said Racek. She was given the chance to do all the data collections for their research. "It was really interesting because I was able to learn about it, and Mayo is able to offer TOLAC," said Racek. Although they haven't finished analyzing all their research (Racek is still working on the paper), they found that the East Coast nomogram worked just as effectively for their Midwest population.

While in Rochester, Racek met numerous UND alumni. "Half of their residents are UND alums," she said. Most of the alumni she met commented on how they felt much more "clinically ahead" since UND's clinical training is so strong. "One of the doctors who had been there the longest made a comment that he's never met a North Dakota student whom he hasn't liked or who hasn't worked hard," said Racek.

Racek is staying busy with schoolwork and extracurriculars such as student council president, co-creator of the Clinical Embryology Club, and co-president of the OB/GYN Student Interest Group. For her future career, Racek would like to spend most of her time with patients in-clinic, but she is still intrigued by surgery and would like to combine both passions. Currently, OB/GYN seems to be the perfect fit for her, specifically maternal-fetal medicine. Racek says, "It would be an honor to be an advocate for mothers and babies." This coming spring, for Frank N. Low Research Day at the School, Racek and Dr. Wick will present the results of their TOLAC research project.



Adrienne Racek and Dr. Myra Wick at the Mayo Clinic.

# NORTH DAKOTA HERE'S TO

By Jessica Sobolik



Alumni listen as Cheryl Stauffenecker, MS, RNBC, CNS, discusses the NOELLE birthing simulator during a tour of the ND STAR (North Dakota Simulation, Teaching and Research for Health Education) simulation lab.

A SERIES OF EMERGENCIES MARRED the UND School of Medicine and Health Sciences' Homecoming 2010 events in Grand Forks, N.D., on Oct. 8.

A man went into cardiac arrest, while another complained of pain and requested medication. Then, a woman went into labor. "I need an epidural!" she reportedly yelled. Her son was safely born moments later.

Fortunately, there were several doctors and health professionals in attendance at the ND STAR (Simulation,

Teaching, and Research for Health Education), where SMHS alumni witnessed firsthand how the simulators are able to educate today's students and other professionals in various health care scenarios.

"It's like the real thing, standing on your feet and answering codes," said Cecil Leitch, BS Med '60, who toured the new facility. "My first patient interaction was in Year 2 of UND's two-year program at the time. Still, we had good instructors (e.g., Gene



# YOU

HOMEcoming 2010



Cornatzer, Theodore Snook). When I went to the University of Washington for Year 3, I wasn't lacking anything." He went on to practice family medicine in Litchfield, Minn., for 37 years.

"The STAR facility is truly an outstanding asset for current and future students, as well as practitioners in the health field across the state and region," noted Steve Laxdal, BS Med '61, who also toured the facility. "Students in my days were often exposed to clinical conditions as a result of what diseases happened to be hospitalized at the time

and the effectiveness of communication between attending physicians. With two granddaughters considering medical careers, I am a bit envious of the resources they will have available." Laxdal retired from a career in radiology in the Minneapolis area in 2005.

### SMHS welcomes Bud and Mary back

On the evening of Oct. 7, two SMHS celebrities were given Sioux Awards, the highest honor from the UND Alumni Association for achievement, service, and loyalty. The School celebrated the recipients the next morning at a reception honoring Henry C. "Bud" Wessman and Mary Wakefield.

Wessman created the UND SMHS physical therapy department in 1967 before serving as the mayor of Grand Forks, a state Congressman, and a federal administrative judge. He also earned a law degree from UND in 1989. Many of Bud's former PT students congratulated Bud on the award.

"I came back to honor him," said Michele Lawonn, BS PT '74. "Bud talked about us being a family, and we had to be in such close quarters." At that time, almost all physical therapy classes were held in one classroom in McCannel Hall. "I just remember the 'Bud Man' Budweiser poster on the wall," she added.

Wakefield most recently served as the director of the Center for Rural Health at the SMHS in Grand Forks from 2001 to 2009 before moving to Washington, D.C., to serve President Barack Obama as administrator of the Health Resources and Services Administration. Prior to the CRH, she was a professor at UND's College of Nursing.

"She was very approachable, and North Dakota's rural communities respected her leadership," said Marlene Miller, program director for the CRH. "It was great to see that she is 'surviving the big city' and remaining passionate about rural health and North Dakota."



Mary Wakefield



Henry C. "Bud" Wessman (center) converses with his son-in-law Dr. Craig Wilson and Michelle Lawonn, BS PT '74.

CRH Associate Director Brad Gibbens said, "Mary is known for her intelligence and dogged commitment to fostering the development of high-performing organizations, so, of course, I miss those skills and abilities. But the thing I miss most is her sense of humor. Granted, she always projected seriousness and competence, but for those of us who knew her well, we saw she had a very good and at times devilish sense of humor."

#### **An evening of memories**

SMHS Homecoming events were capped off with an evening social at the Alerus Center, where many alums shared their memories of UND.

Jean Thorfinnson Cory, BS Med Tech '61, recalled working in the microbiology department with department chair Dr. John Vennes after she graduated. "I was a senior interning in microbiology when Dr. Vennes, '52, came over and told me they had never had a med tech in the department before, but they were going to offer a position to take care of the culture collection," she said. "That was the best job I ever had." She went on to manage a dermatology clinic in Portland, Ore., for 10 years.

Grant Seeger, MD '04, remembers the camaraderie and comedy of the patient-centered-learning groups that rotate every two months. "I think strong bonds were made during the first few blocks of medical school as it is an intense change of study habits," he said. "The first gross anatomy lab was always a shock to the system and gave us that 'I'm really in medical school' feeling." He is now a radiation oncologist at Altru Cancer Center in Grand Forks.

Jack Lind, BS Med '60, noted that his medical education was different from today's curriculum. "Gross anatomy was at least a semester, if not more, with lectures every day and three-hour labs," he said. Still, he and his classmates found time to relax at various establishments around town. "We had a medical fraternity and sponsored parties that were open to all students," he said. "We'd rent the basement of the Riviera Cafe downtown. Sometimes we could obtain use of the Officer's Club at the air force base. The old Belmont Lounge was popular, too, and Whitey's Cafe had the best french-fried onions. We had a number of married students who were also veterans. We all got along well together."

#### **Save the date**

Next year's UND Homecoming has already been set for October 17–23, 2011. The School will be honoring all classes of 1961 and 1986 at that time. For more information, please contact Shelley Pohlman, SMHS Office of Alumni and Community Relations, at [shelley.pohlman@med.und.edu](mailto:shelley.pohlman@med.und.edu) or (701) 777-4305.

'10s

**Judy Anderson, PA '10**, has joined the medical staff as a physician assistant at Medcenter One in Jamestown, N.D.



**Dustin Hager, PA '10**, has signed a three-year contract with Heart of America Medical Center in Rugby, N.D.



**Keri Weick, PA '10**, has contracted with Heart of America Medical Center in Rugby, N.D. She will be seeing patients at Johnson Clinics in Rugby, Dunseith, and Maddock, and providing hospitalist coverage at the HAMC.



**Zaki Kahn, IM Residency '10**, has joined Altru Health System in Grand Forks as a physician in internal medicine. He received his medical degree at Ziauddin University Hospital in Pakistan, where he also completed an internal medicine residency. He also completed an internal medicine residency and internship at the UND School of Medicine and Health Sciences in Fargo, N.D.

**Patrick Walter, PA '10**, has joined Sanford Clinic in Jamestown, N.D., as a physician assistant.

'00s

**Kadon Hintz, MD '07**, has joined Medcenter One in Bismarck, N.D. He earned his medical degree from the UND School of Medicine and Health Sciences in Grand Forks. He completed his residency at Grand Rapids Medical Education Partners/Michigan State University in Grand Rapids, Mich. As an emergency medicine doctor, he is expertly trained to diagnose and treat injuries and illnesses that require urgent care. Hintz is originally from Bismarck.



**Rena Nordeng, MD '07**, has joined Medcenter One in Dickinson, N.D. She is a native of Watford City, N.D.



**Bradly Skari, MD '07, FP Residency '10**, has joined Sanford Clinic in Jamestown, N.D. He is a native of Devils Lake, N.D.



**Jessica Skjolden, MD '07**, a native of Bottineau, N.D., has joined the staff of St. Andrew's Health Center in Bottineau and will serve the community as a family medicine physician.



**Mandy Sorlie, MD '07**, has joined Sanford Clinic in Jamestown, N.D. She is a native of Flasher, N.D.



**Have news?  
We want to hear from you!**  
Please send your news items for the next issue of **North Dakota Medicine** to Shelley Pohlman: [shelley.pohlman@med.und.edu](mailto:shelley.pohlman@med.und.edu) or call (701) 777-4305

'00s

**Ryan Zimmermann, MD '07**, has joined the medical staff at Medcenter One in Dickinson, N.D., as a family medicine physician. He is a native of Bismarck, N.D.



**Joshua Gebur, MD '05**, has joined the surgery department at Essentia Health (formerly Innovis Health) in Fargo, N.D. He specializes in general and laparoscopic surgery. He is originally from Drayton, N.D.



**Laura Lizakowski, MD '05**, has joined Altru Rehabilitation Center in Grand Forks.



**Shaun Christenson, MD '04**, has been hired as a neurologist by Essentia Health (formerly Innovis Health) in Fargo, N.D. He will focus on sleep medicine, electromyography, electroencephalogram, Parkinson's disease, and Alzheimer's disease.



**Robin Hape, MD '02**, a surgeon at Altru Health System's Bariatric Center in Grand Forks has received distinction from the American Society for Metabolic and Bariatric Surgery as a Center of Excellence, which recognizes surgeons and programs with a track record of favorable outcomes in bariatric surgery.



'90s

**Colleen Swank, MD '97**, has been promoted to medical director of primary care at Altru Health System in Grand Forks.



'80s

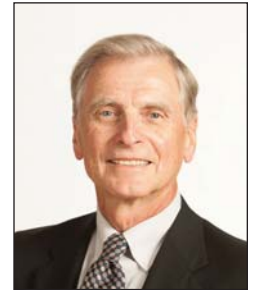
**Steven Mattson, BS Med '80**, has been appointed by North Dakota Gov. John Hoeven to serve a three-year term on the Tobacco Prevention and Control Advisory Committee.

'70s

**William Mayo, MD '79, FP Res '82**, has received the 2010 Family Physician of the Year award, an honor given to a North Dakota physician who shows compassion for his patients and dedication to the community. He has practiced at Sanford Clinic in Wahpeton, N.D., for 23 years.

'60s

**David Baumgardner, BS Med '68**, has joined IMA Healthcare (formerly Internal Medicine Associates), an independent health care organization in Fargo, N.D. He practiced internal medicine in Fargo for 30 years before retiring in 2006.



Save the Date!

**2011 Dakota Conference**  
on Rural and Public Health

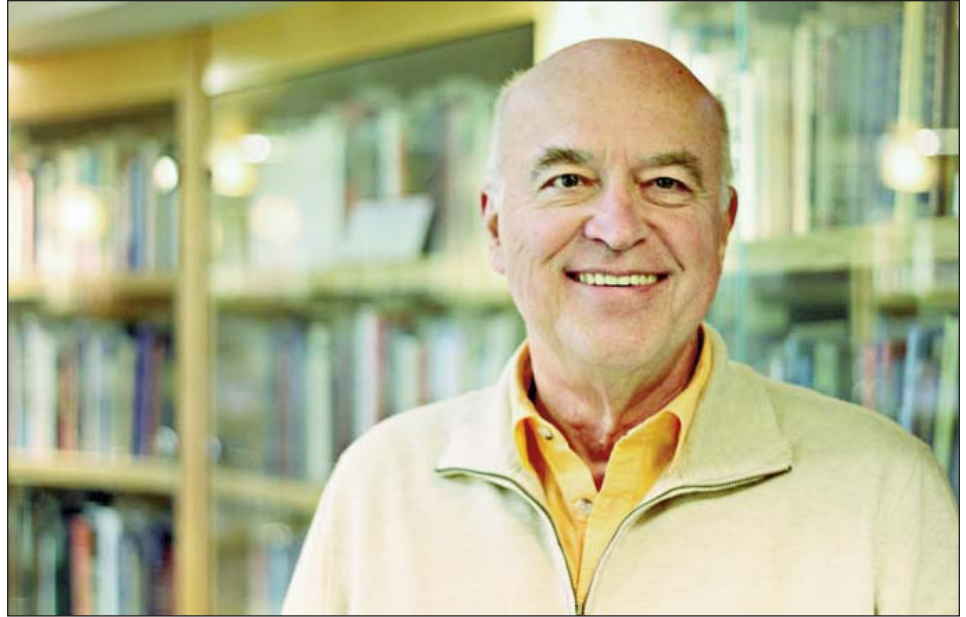
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Mandan, ND

**Stan Sateren, BS Med '67**, visited with the staff of the UND School of Medicine and Health Sciences Office of Alumni and Community Relations on Sept. 3 in Grand Forks. He was back in North Dakota to visit his brothers and the family farm near McVille, N.D., and to attend the Nelson County Historical Society Threshing Bee at Stump Lake Park Pioneer Village. He and his wife Linda Stoer-Scaggs, a PhD-trained psychotherapist, live in Granville, Ohio. Sateren earned his Bachelor of Arts degree at UND, and was then accepted into medical school there. He received his Doctor of Medicine degree from Northwestern University Medical School in 1969. He is a fellow of the American Society of Addiction Medicine, and is certified by the American Board of



Internal Medicine and the American Board of Addiction Medicine. After doing general practice for three years in Britton, S.D., he moved to Columbus, Ohio, where he completed his residency in internal medicine and began work in critical care with Mount Carmel Health System, where he then practiced for 29 years.

In the 1980s, Sateren became interested in the health and well-being of physicians and other health care professionals and of the obstacles doctors face in addressing their own health issues, including the problems of stress, burnout, and suicide. He directed the development of a Medical Staff Peer Support Program for the hospital and became involved at national and international levels in this area. In 2002, he was selected to direct the Ohio Physicians Health Program and assumed the position of its president and medical director until his retirement in 2009.

In the mid-'80s, while at Mount Carmel East, Sateren applied his farm-bred inventiveness to develop a computer learning center adjacent to the emergency room and critical care unit, where he wrote computer programs to solve medical problems, and implemented computer programs and technologies that simulate medical emergencies. Sateren's

background and interest in the use of computer technologies in medical care and in medical simulation led to his touring the Clinical Education Center and the new ND STAR (Simulation, Teaching and Research for Health Education) lab at the UND School of Medicine and Health Sciences.

During his visit, Sateren spoke about his job during the four years that he was an undergraduate at UND. He lived in the hospital and was a member of the ambulance team for the former St. Michael's Hospital, which now houses the School of Medicine and Health Sciences. He said the location of the Office of Alumni and Community Relations was the former emergency room, and the rooms to the south of Alumni and Community Relations housed radiology for the hospital. He said that during weekdays, the janitor would drive the ambulance, dubbed the "Green Hornet." Sateren and his coworkers, along with an emergency room nurse, staffed the ambulance on weekend and weeknight "Mr. Adam Green" (emergency) runs for the hospital. He said his experience working for the hospital was immensely helpful when it became time to complete his clinicals.

# HEALTH WORKFORCE

# RA

By Kristine Henke

GOOD HELP IS HARD TO COME BY. This is something many small, rural clinics in North Dakota find to be too true. Rural hospitals and clinics don't find bad help, but it can be a struggle for them to find any help at all. North Dakota is projected to have a shortage of about 210 physicians by 2025, and workforce shortages are a challenge for the entire health care system. Although there are needs everywhere, shortages are likely to be most severe in rural areas.

Jody Atkinson, a fighter for rural health care, has been working in Bottineau, N.D., for the past 25 years.

She started at St. Andrew's Health Center as an administrative assistant, and has since worn many hats. Working her way up through human resources and finances, she is now president and CEO, and she knows firsthand how difficult it can be to maintain the continuum of care in a rural health care setting.

"It seems as though we have never not been recruiting," said Atkinson. St. Andrew's has been anything if not creative. Working with contingency firms, sending out countless mailings, drafting e-mails, and even venturing

into online advertising have all been avenues Atkinson has explored.

What's a CEO to do? St. Andrew's, like many other rural health care facilities in the state, has formed a recruitment team to help in the process of employing providers. This team reaches far from the walls of the hospital. Working with the city's economic development department and chamber of commerce when a potential provider visits Bottineau, they ultimately try and give them a taste of what living in small town North Dakota is all about.

"We try and be strategic in what interests the potential candidate has," said Atkinson. "We had a gentleman who came and was big into hunting. Who better to sit and have dinner with him than some of our town's very own hunting enthusiasts?"

Atkinson said the biggest key to successful recruitment is to find the right fit. St. Andrew's most recent addition is Dr. Jessica Skjolden, a native of Bottineau. Atkinson feels part of their success with bringing Skjolden on board was that she grew up in a rural community and has family ties to the area. For Skjolden, the experience has been "a little bit different. I'm not one that's ever wanted to have a lot of attention, but they kind of make a big deal of you when you come to town. But, I know they are excited to have another provider."

Skjolden is excited to be at St. Andrew's. "When I started medical school, I was deciding between family medicine or internal medicine, but I was fairly certain I wanted to end up in rural North Dakota," said Skjolden. She also shared that she hasn't provided any consults in the grocery line—yet. Skjolden recommends students who are interested in working in a small community do a rotation there, so they get a taste of what it would be like. Some great opportunities for students and residents to have this experience are the Don Breen and SEARCH (Student/Resident Experiences and Rotations in Community Health) programs.

It can be an uphill battle for hospitals in North Dakota, but when

there is success like St. Andrew's has recently seen, they recommend celebrating with more than cake and coffee. Thinking outside the box, Atkinson and her team welcomed their new doctor back to Bottineau by having a get-together in a city park. A picnic might have been nice, but they decided karaoke and an inflatable bouncy castle for the children was a bit more appropriate. Again, it was the community coming together, like small towns do, to welcome someone they put a lot of time and energy into connecting with.

After the castle was deflated and the karaoke unplugged, the work carries on, a story that hits close to home for many rural health care facilities. Atkinson works to make sure St. Andrew's name is kept out there. She listens to her colleagues and stays as competitive as she can. When asked what it feels like, Atkinson laughs and says, "It is a huge sense of relief! But I always keep the question in the back of my mind: are we really done recruiting?" For her, keeping those providers they have worked so hard for is just as important, if not more so, than finding them in the first place. But for now at least, she can sleep easy knowing the people of Bottineau are getting local care they can rely on.

Now that Skjolden is in a North Dakota community seeing patients, she says "It feels like I've been doing this a long time already. You get rolling seeing patients and it's exactly what you want to be doing, and it's great. I'm really loving it so far."

The Center for Rural Health's state-appropriated workforce initiative can assist you if you are interested in a practice opportunity in North Dakota. We offer compatible matching services, information on loan repayment programs, and recruitment assistance for facilities and providers.

For more information on our services, including information on the Don Breen and SEARCH programs, please contact Aaron Ortiz, workforce specialist, at [aaron.ortiz@med.und.edu](mailto:aaron.ortiz@med.und.edu) or (701) 777-6788.



**Aaron Ortiz**

**Will N. Spear BS Med '42**

**Stuart B. Simon, BS Med '45**, of Norman, Okla., passed away on Aug. 12 at the age of 90. He was born on April 19, 1920, in Napoleon, N.D., to Dr. John and Jennie (Hawley) Simon. After graduating from high school in Napoleon, he completed two years of undergraduate studies at North Dakota State University before serving with the Army during World War II. Upon his return, he completed his degree, briefly taught botany at North Dakota State University, and then attended medical schools at the University of North Dakota in Grand Forks and the University of Illinois in Chicago, where he graduated in 1948. He interned at Hurley Hospital in Flint, Mich., followed by an obstetric residency at Erlinger Hospital in Chattanooga, Tenn., from 1950 to 1952. He practiced family medicine in Pierre, S.D., for the next 16 years.

Stuart entered the psychiatric residency program at Griffin Hospital in Norman, Okla., followed by a child psychiatry residency at the University of Oklahoma Health Sciences Center. He served as the medical director of the Phil Smalley Children's Center in Norman from 1971 to 1980 and taught child psychiatry at OUHSC from 1980 to 1993. He was a national hospital surveyor for the Joint Commission on Accreditation of Healthcare Organizations and practiced with the Indian Health Service Clinics in Pawhuska, Pawnee, and Ponca City from 1980 to 1998. After his retirement, he continued to consult with the residency programs at Griffin and the Children's Hospital. He served as chair of the Oklahoma Psychiatric Association Ethics Committee for 15 years.

**Philip E. Fluvog, BS Med '53**, passed away July 28 in his Seattle home. Born in Barton, N.D., on May 26, 1921, he spent his early years on the family's rural farm. He left to join the Army Air Corps and was a World War II flight instructor in Bakersfield, Calif. After his career in the service, he returned to school to graduate from the University of California–Berkeley, the University of North Dakota School of Medicine, and the University of Washington Medical School. He touched many lives during his career as a general and thoracic surgeon in Seattle. After retiring, he pursued new interests, earning another educational certificate and learning American Sign Language.

**William "Bill" Masakuni Nagatomo, BS Med Tech '53, 83**, a resident of Fergus Falls, Minn., died March 23 at his home under the care of Lakeland Hospice. He was born Oct. 19, 1926, in Minot, N.D., the son of George and Masuo (Oshikawa) Nagatomo. He grew up and attended school there, graduating from Minot High School in 1944. He was inducted into the Army on Feb. 21, 1945, and served in the European Theater during World War II until his discharge on Nov. 8, 1946. After his discharge, he attended the University of North Dakota in Grand Forks, receiving a bachelor of arts degree in 1950, and a Bachelor of Science in Medical Technology in 1953. On July 30, 1955, he married Alma M. Krefting in South Sioux City, Neb. He worked for a short time at Trinity Hospital in Minot, N.D., and in Crookston, Minn. They moved to Fergus Falls, where he worked at Lake Region Hospital for 37 years as the laboratory manager, retiring in November 1991.

**Ione W. Olson, BS OT '58, 89**, died Oct. 8 at the Villa St. Vincent home in Crookston, Minn. She was born in Glenwood, Minn., on April 20, 1921, the daughter of Edgar and Florence (Wuest) Wittwer. She attended all 12 grades and graduated co-salutatorian in 1939 from Glenwood High School, Glenwood, Minn. She attended Milwaukee-Downer College in Milwaukee. In 1944, she graduated with a diploma in occupational therapy. She was first employed as a registered occupational therapist at the Veterans Hospital in St. Cloud, Minn., and then Fargo, N.D. It was at the Fargo VA Hospital that she met Ivan Iver Olson. They married in Bemidji, Minn., on February 20, 1950, and they spent the next 44 years between the Glenwood and Greater Grand Forks areas.

In 1954, Ione joined the University of North Dakota faculty as an assistant professor and established the OT department. She earned her BS degree in OT at UND in 1958. In 1960, she was awarded a scholarship by the March of Dimes to attend a psychiatric OT program in Omaha, Neb. She was an instructor at UND until 1980 when she retired.

**Marjorie Z. Walters, BS Med Tech '59**, died Sept. 4 at Hospice Atlanta in Atlanta, Ga. She was born on Nov. 11, 1930, to Louis Richard Zutz and Frieda Marie (Busse) Zutz in Wylie Township, Minn., where she was raised and educated. After a tour of service in the U.S. Air Force, she graduated from the University of North Dakota in Grand Forks with a bachelor's in clinical laboratory science. After marrying Alfred G. "Jim" Walters, she relocated to Atlanta in 1960 and worked as a medical technologist at Grady Memorial Hospital in Atlanta for more than 30 years, where she greatly valued her Grady colleagues.



**Marilyn J. Thibeault, BS Med Tech '57**, formerly of Youngstown and Lewiston, N.Y., passed away July 9 at age 74.

**Shirley L. Foster BS Med Tech '67**, died on Sept. 24 in her home in Grand Forks, N.D. She was born on May 2, 1943, in Grand Forks, the daughter of George and Berget Sollom. She grew up and was educated in Grand Forks, attending the University of North Dakota, earning her B.S. in Medical Technology. She married Porter "Joe" Foster Jr. on Nov. 24, 1967, in Grand Forks. She was a lab supervisor in the microbiology and immunology department at the UND Medical School for 37 years.

**Russell Crawford Jr., BS Med '75, 67**, of Deer River, Minn., and formerly of Grand Forks, N.D., died Sept. 14 at the Deer River Health Care Center. He was born March 29, 1943, in St. James, Minn., the son of Russell S. Sr. and Agnes (Hallameck) Crawford. He was raised in Grand Forks, attending St. Michael's Grade School and graduating from St. James High School in 1961. He received his Bachelor of Arts in History from Yale University in 1966. During summers in college, he worked as a brakeman on the Great Northern Railway in North Dakota. Following college graduation, he enlisted in the U.S. Air Force and served five years as a pilot during the Vietnam era. He was honorably discharged as a captain from the Air Force in 1972. He and Marcie Windler married in September 1968 in Sweeny, Texas. She died in December 1971. Upon leaving the Air Force, he returned to Grand Forks and enrolled at the University of North Dakota to complete a year of premed classes. He attended medical school at UND for two years before transferring to Baylor College of Medicine (Houston) and graduating in 1977. He completed his medical internship in Fresno, Calif., where he met Donna Skoegard Brannon. They married June 27, 1980, after he finished his residency in emergency medicine at Oregon Health Science University in Portland. He practiced emergency medicine in Portland for almost 20 years. Russ and Donna decided to move to the north woods of Minnesota in 1997, and he worked in emergency medicine at Fairview University Medical Center-Mesabi in Hibbing, Minn., for three years before retiring in 2000.

**Hugh D. "Doc" DePaolo, BS Med '77, 61**, died July 29 at Rapid City Regional Hospital. He was born and raised in Casper, Wyo. He attended the University of Notre Dame, where he intended to play football, but instead discovered a love of fencing; he graduated as a four-year varsity letterwinner in the sport. After his time at Notre Dame, he went on to achieve a master's degree from the University of North Dakota and a medical degree from the University of Alabama. After completing his obstetrics residency at Baylor College of Medicine in Houston, he returned to Casper, where he began his career as an OB/GYN, which allowed him to deliver thousands of babies and change the lives of thousands of patients.

**Dr. Maya Dillas**, clinical professor at Trinity Health in Minot, N.D., passed away Aug. 14 at the age of 46 after a 29-month battle with cancer. She had a rich life of being a good physician and helping her patients, traveling, enjoying her many friends, and watching her two girls grow.

**Dr. Arie Fischbach**, clinical assistant professor, OB/GYN, 72, died Oct. 21 at Trinity Medical Center in Minot, N.D. He was born Jan. 15, 1938, in New York City to Dr. Karl and Mildred Fischbach, and grew up in Manhattan. A graduate of Lafayette College with honors, he went on to medical school at the University of Liege in Liege, Belgium, and graduated magna cum laude. He had practiced medicine as a board certified OB/GYN for the past 40 years. He spent the last 19 years working in Minot.

Arie married Rayetta L. Meek on March 9, 1985, in Williston, N.D. They have nine children, 15 grandchildren and one great-grandchild.

# Ignite the Spirit

UND launches an ambitious capital campaign that will benefit students and faculty at the School of Medicine and Health Sciences for years to come.

You may have heard about UND's North Dakota Spirit capital campaign, launched publicly at the Chester Fritz Auditorium on Oct. 8. You may be wondering, "How does this apply to the UND School of Medicine and Health Sciences?" Mary Coleman, assistant professor in the Department of Pathology, was the first to find out.

Coleman won the \$10,000 giveaway at the launch event, which was designed by the UND Foundation to give the campus a firsthand philanthropic experience. She was selected out of 1,500 contestants to choose which campus entity would receive the money donated by the Harold and Kathleen Gershman Foundation. She knew which group could make use of the funds—Clinical Lab Sciences.

"We need a new slide stainer and that costs \$10,000," Coleman said. "It aids in teaching hematology."

The launch event was the official start to UND's capital campaign, themed North Dakota Spirit. The goal, set by UND President Robert Kelley, is \$300 million. Thanks to generous donors during the campaign's quiet phase, the campaign has already reached the \$204 million mark. The funds will ultimately benefit students, faculty, programs, and facilities across campus.

"We call it North Dakota Spirit because as our state's flagship university, we carry the spirit of North Dakota in all we do," Kelley explained.

As part of the campaign, the SMHS has identified its major funding priorities, including student scholarships, endowed faculty chairs and professorships, the simulation lab, and a new health sciences building. For more information about the campaign as it moves forward and specific SMHS funding opportunities, visit [www.spirit.und.edu](http://www.spirit.und.edu).

Printed copies of the School's campaign case statement and case summary are available at the SMHS Office of Alumni and Community Relations. 



Photo: Bruce Crummy



## What is North Dakota Spirit?

"As a teacher, I can say the thing that defined North Dakota students was an attitude of quiet confidence and a very mature understanding of what it would take to succeed. Most of them have an agrarian background, and coming from the land, they understand what it means to have to go out and work, and do a good job. And after they graduate, our students are the most sought after in the country because of that work ethic."

—Henry C. "Bud" Wessman,

UND Physical Therapy Department creator and chair (1967–1993), Sioux Award winner (2010)



On Saturday, October 23, Grand Forks Walmart customers received a hearty and healthful greeting from over 50 UND medical, physical therapy, and nursing students. The students gave almost 250 customers free health information and health screenings, ranging from blood pressure checks and blood glucose readings to body and posture assessments.



Medical laboratory science students helped out at the blood drive for Dak Minn Blood Bank on October 5–6, which was sponsored by the UND University Apartment Community Council and the UND Medical Laboratory Science Club. Shown donating blood to technician Peggy Braddock is Kayla Lee, a clinical laboratory science student.



Student Occupational Therapy Association members participate in Homecoming parade.



Clinical Laboratory Science Class of 2011



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# Print vs. **DIGITAL**

Let us know how you prefer to receive *North Dakota Medicine* and other forms of media from the School of Medicine and Health Sciences by taking a brief survey at <http://bit.ly/readsurv>.

Those who fill out the survey by Dec. 31 will be entered into a drawing for a free SMHS blanket, just in time for winter!

**UND** THE UNIVERSITY OF  
NORTH DAKOTA

