

NORTH DAKOTA MEDICINE

THE UNIVERSITY OF NORTH DAKOTA SCHOOL OF MEDICINE & HEALTH SCIENCES

From PCL ... to TLC



Summer 2016
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UND SCHOOL OF MEDICINE
& HEALTH SCIENCES
UNIVERSITY OF NORTH DAKOTA

**NIH Grant Recognizes UND's Biomedical
Research Power**

Mentoring for Youth

Mind Matters



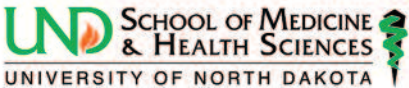
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YOUR
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NORTH DAKOTA MEDICINE

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UNIVERSITY OF NORTH DAKOTA SCHOOL OF MEDICINE AND HEALTH SCIENCES

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Transitions and Challenges



This summer is a time of transition for the UND School of Medicine and Health Sciences—transition to the new academic year with the graduation of senior students and the welcoming of new students; the transition of UND's presidency from Ed Schafer to Mark Kennedy; the effect of a new budget reality for the state, UND, and the SMHS; and the move into the beautiful new home for the School of Medicine and Health Sciences.

And while the budget challenges may well be the most important factor facing us in the long term, the recent graduation this past May of some of our finest is by far the most gratifying and noteworthy issue in the short term. One of the highlights of commencement weekend was at the medical school graduation, where Dr. Pat Carr, who was selected by the senior class to be their commencement speaker, presented a memorable address: "Everything You Need to Know You Learned in Anatomy."

The close of the spring semester is when we are pleased to recognize the volunteer faculty across the state who make North Dakota's community-based School of Medicine and Health Sciences as successful as it is. In addition, faculty and students garnered awards by dint of their efforts in teaching and learning as well as research. I invite you to read about the accomplishments of the students, faculty, and staff at the School in the news briefs that follow my Dean's Letter as well as throughout this issue of *North Dakota Medicine*. The School is proud of all that they have worked so hard to achieve.

Just a brief word about incoming President Mark Kennedy's plans for his first 180 days here at UND. Following his arrival on July 1, President Kennedy plans to spend his first 90 days on a listening tour—both within UND, in the local community, and across the state. He wants to meet with each unit, and we plan to welcome him for a briefing and discussion

session sometime in the early summer.

Following his listening tour, President Kennedy plans to oversee a strategic planning process for UND in anticipation of the next legislative session that begins in January 2017.

And speaking of the Legislature and planning our budget submission for the session to begin in January 2017, we need to accept the transition to a new financial reality. That reality already has affected us—we have had to reduce our current budget (fiscal year 2015–17) by 4.05 percent or some \$3 million. About half of that amount came from delaying the start of several programs that have not yet been implemented. Another roughly 20 percent came from additional operational efficiencies. Only about a third of our allotment amount came from personnel adjustments, and all of those came from voluntary faculty and staff separations or by leaving vacant positions open.

We (along with the rest of higher education and other state-funded agencies) will need to prepare a 90-percent-of-base-funding budget for the next biennium (July 1, 2017–June 30, 2019). We are busy planning that budget, but it is clear that we need to accept the certainty of a new financial reality for the foreseeable future.

As we consider our budget, though, rest assured that we will resist the temptation to raise tuition to generate needed funds because this would put an additional financial burden on the backs of our students who cumulatively already have substantial debt. We've worked hard to keep their costs down and will continue to do so. We've also worked hard to increase scholarship support. As a consequence, we've managed to reduce cumulative debt (at least for our medical students, where we have the best historical data). The most recent information we've received from the Association of American Medical Colleges that compares the SMHS's costs and student debt load with

all the other medical schools in the country (some 144 of them) shows the good news that we've been able to reduce student debt more than almost any other medical school in the country while keeping costs low. Our students have benefited from a nearly 3 percent annual decrease in debt compared with an average annual increase of over 2 percent elsewhere, for a difference of about 5 percent per year over the past five years. One of the main reasons for this is that we specified that mitigation of student debt was our primary philanthropic focus several years ago; as a consequence, we've been able to increase giving for scholarships and the debt situation of UND medical (and other) students has continued to brighten.

In addition to increasing scholarships to reduce student debt, we've also worked to keep our costs down. Compared with all other medical schools, the cost for a medical student to attend the SMHS is lower than that at about 85 percent of other schools. In fact, we've been able to slightly decrease the overall cost to attend our school over the past five years, compared with a nearly 3 percent annual increase at other public medical schools. Good news indeed!

The move of faculty, staff, and equipment from the old building into the new facility is about half-completed, and will be done in time to welcome the students back to campus later this summer. The building—a 325,000-square-foot state-of-the-art facility—has been completed on time and on budget. That's quite an accomplishment for the largest public-funded construction project in the history of the state! Credit for this noteworthy accomplishment—on time and on budget—goes to many, but primarily to our own Randy Eken, associate dean for administration and finance and chair of our Building Committee; Jim Galloway of JLG Architects; UND vice president for

finance and administration Alice Brekke and her team; and especially the folks at PCL Construction, our construction manager at risk. Thanks to all, particularly the many construction workers and contractors who worked on the building and compiled the amazing safety record of over 500,000 worker hours on site without a single lost day from an on-site injury!

Most of the faculty and staff have now been moved into the building, and we are now in the process of moving laboratory equipment and research personnel into their new quarters. The first influx of students into the building will occur in August with the arrival of the medical student Class of 2020, to be followed by the health sciences students with the start of UND's fall semester in late August.

So the School is transitioning on multiple fronts. And while the budget challenges are real, the School is well-positioned to deal with them while continuing to deliver outstanding education, scholarship and research, and service as it's done since its founding in 1905.



Joshua Wynne, MD, MBA, MPH
UND Vice President for Health Affairs
Dean UND School of Medicine and
Health Sciences

Master of Public Health Program expands to Bismarck and Minot campuses

The University of North Dakota Master of Public Health Program now offers the MPH Program to students in Bismarck and Minot, North Dakota.

The UND School of Medicine and Health Sciences (SMHS), starting with the fall semester 2016, will offer the MPH Program at a distance to classes based at the SMHS's Southwest Campus in Bismarck and its Northwest Campus in Minot.

The UND MPH classes will be offered synchronously online, right from the classroom at UND where they are held. Though students in Bismarck and Minot will be encouraged to join their cohort in class on the college campuses there, students from all over North Dakota will be able to participate online—just like many students already do in other UND programs from locations around North Dakota and the country.

Medical Laboratory Science Cohort program graduation at Mayo Clinic

On April 20, the UND Medical Laboratory Science Cohort Program at Mayo Clinic held its 9th graduation celebration in historic Phillips Hall on the campus of the Mayo Clinic in Rochester, Minn. UND Associate Dean for Health Sciences and Chester Fritz Distinguished Professor Dr. Tom Mohr gave the celebration address. To date, over 120 Mayo employees have received a Bachelor of Science in Medical Laboratory Science from UND through this cohort program.

This long-standing, unique collaboration allows Mayo Clinic employees to earn a BS degree in MLS from UND without leaving Rochester while continuing to work full-time. Students complete lecture courses online, and all hands-on laboratory requirements are taught onsite at the Mayo Clinic campus each semester by Bob Porter and Chris Triske, UND MLS faculty members. In addition to these one- or two-week “intensive labs” each semester, Bob and Chris also provide academic advising to approximately 100 students as well as performing recruitment and other tasks.

Doctor of Medicine Class of 2016 award winners

Medical students of the MD Class of 2016 and faculty of the University of North Dakota School of Medicine and Health Sciences were recognized by the School at the Commencement Awards presentation on May 15. For the names and hometowns of the award winners, please visit <http://goo.gl/aJlvmC>.

Geiger elected president of Society on NeuroImmune Pharmacology



Jonathan Geiger

Jonathan D. Geiger, PhD, Chester Fritz Distinguished Professor in the Department of Biomedical Sciences at the University of North Dakota School of Medicine and Health Sciences, has been elected to serve as president of the Society on NeuroImmune Pharmacology. Last year, Geiger received the society's top award—the Joseph Wybran Award—for

extraordinary contributions to the advancement of the fields of neuroimmunology, drugs of abuse, and immunity to infections. At its annual meeting in Krakow, Poland, on April 6–9, the international society formally recognized Geiger's election.

“Being elected by your colleagues across the world is truly an honor, and it is a recognition that the work conducted in our laboratory is appreciated and that I can provide effective leadership to the society,” Geiger said. He will be president-elect from 2016 to 2017, president from 2017 to 2018, and past-president from 2018 to 2019.

Frank Low Research Day award winners

We want to thank all of you who participated in making the 36th Annual Frank Low Research Day a success. We appreciate the high level of participation by students, faculty, and staff at the School of Medicine and Health Sciences. Special thanks to UND Vice President for Health Affairs and Dean of the School of Medicine and Health Sciences Joshua Wynne, MD, MBA, MPH, for ongoing support of this important annual event and for providing welcoming remarks for the keynote speaker.

We were pleased to have keynote speaker Professor Harald H. Sitte, PhD, from the Center for Physiology and Pharmacology, Institute of Pharmacology at the Medical University of Vienna, present his address, “Transporters as Clinical Targets of Drugs: Amphetamines, New Psychoactive Substances and the Monoamine Transporter Cycle.”

Ninety-nine posters were presented. Invited talks were given by BreAnn Neiger, SMHS Department of Surgery (mentor: Dr. Michael Bouton); Gisele de Oliveria, Master of Public Health Program (mentor: Dr. S. Cristina Oancea); Christopher Jondle, Department of Biomedical Sciences, (laboratory of Dr. Jyotika Sharma); Joshua Kulas, Department of Biomedical Sciences, (laboratory of Dr. Colin Combs); and Danielle Krout, Department of Biomedical Sciences (laboratory of Dr. Keith Henry).

Special thanks go to Associate Professor Scott Garrett, PhD, Department of Pathology; and Frank Low Research Day Coordinator JoAnn Johnson, whose efforts ensured the success of the event.

To view the winners of the best student poster awards by category, please visit <http://goo.gl/IqP4NX>.

UND doctors honored with Tow Humanism in Medicine Awards

Michael E. LeBeau, MD, clinical assistant professor of internal medicine at the University of North Dakota School of Medicine and Health Sciences, and a nephrologist for Sanford Health in Bismarck, was honored with the prestigious Leonard Tow Humanism in Medicine Faculty Award at the School's commencement on May 15. Samantha L. Dusek, MD, a 2016 UND medical school graduate, received the Tow Award for graduating medical students.

Each year, Leonard Tow Humanism in Medicine Awards are presented to a graduating student and faculty member at over 100 of the nation's medical schools. The Gold Foundation began the award in 1991 at Columbia University College of Physicians & Surgeons. The Healthcare Foundation of New Jersey began replicating these awards nationwide in 1998, with participation from the Gold Foundation. In 2003, with a generous donation from Leonard Tow, these awards became solely sponsored and administered by the Gold Foundation. This award is given to those who best demonstrate the Foundation's ideals of outstanding compassion in the delivery of care; respect for patients, their families, and healthcare colleagues; and clinical excellence.

Michael E. LeBeau

"Integrity, excellence, compassion, altruism, respect, empathy, and service are all attributes physicians strive to achieve throughout their career," said Betsy Dickson, MD Class of 2016. She worked to nominate LeBeau for the award. "Dr. LeBeau is a provider who not only possesses these respectable qualities but also imparts them onto his students."

"Throughout my educational experience with Dr. LeBeau, I got to see firsthand his calming interaction with patients, family members, and hospital staff. Whether it was discussing a terminal diagnosis with a patient, discussing a new treatment option, or addressing a nurse's question, Dr. LeBeau did so in a respectful and empathetic manner," she said. "His confident yet humble demeanor was something patients, family members, and staff all respected and confided in."

A New Town, N.Dak., native, LeBeau has been a faculty member of the UND SMHS since 2009. He is a 2002 graduate of the University of North Dakota School of Medicine and Health Sciences and completed his residency training in internal medicine at Gundersen Lutheran Medical Foundation in La Crosse, Wis. He finished his fellowship in nephrology from the University of Iowa Health Care program in Iowa City, Iowa. He is board-certified in internal medicine by the American Board of Internal Medicine.

"Dr. LeBeau exemplifies humanism in every aspect of his practice from the way he takes extra time to sit at his patients' bedsides and answer their questions to the way he interacts with his nurses and staff in a welcoming and kind manner," said Samantha Dusek, MD, in her nominating letter. "He has somehow resisted the so-common temptation to allow the busy tempo of the day to blind him of the needs of his patients—their needs to feel cared for and listened to."

"I never saw any of my preceptors deliver bad news near the end of a patient's life with the sincerity, grace, and compassion that he has shown," she said.



UND SMHS Dean Joshua Wynne, Michael LeBeau, and his nominators: Betsy Dickson and Samantha Dusek.

Samantha L. Dusek

In June of 2015, Grafton, N.Dak., native Samantha L. Dusek, MD 2016, was nominated by her peers to be one of 12 students inducted into the Gold Humanism Honor Society. Nominees were chosen based on the characteristics of humanism—integrity, excellence, compassion, altruism, respect, and empathy.

This year, Dusek was chosen from the 12 inductees by the School's Gold Humanism Honor Society Selection Committee to receive the 2016 Tow Humanism in Medicine Award. The committee is composed of the third- and fourth-year class presidents and six faculty members.

McHugo elected to national PA accreditation commission



Assistant Professor Jeanie Mchugo, PhD, PA-C, chair of the Department of Physician Assistant Studies at the University of North Dakota School of Medicine and Health Sciences, was elected to be a commissioner on the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA).

The ARC-PA is the recognized accrediting agency that protects the interests of the public, including current and prospective PA students, and the PA profession by defining the standards for PA education and evaluating PA educational programs within the territorial United States to ensure their compliance with those standards. ARC-PA commissioners are elected by the ARC-PA from a slate of nominees submitted by the ARC-PA collaborating organizations. Commissioners initially serve a three-year term and are eligible for reappointment for a second three-year term. Mchugo's term runs until December 31, 2018.

Executive Director of the ARC-PA John E. McCarty said that with Mchugo as a commissioner, "The commission would benefit from your expertise in PA education, leadership, and thoughtful approach to issues when presented."

Sophomore Awards presented at School of Medicine and Health Sciences

Outstanding Teacher Awards

- Portrait Award—*Walter Kemp, MD, PhD*, Associate Professor, Pathology. For outstanding support of students during their first two years of medical education.
 - Golden Apple Award
For excellence in teaching, presented to the instructor whose instruction has had the greatest impact on the class. Presented by Sophomore Students to *Walter Kemp, MD, PhD*, Associate Professor, Pathology
 - Golden Apple Award
For excellence in teaching, presented to the instructor whose instruction has had the greatest impact on the class. Presented by Freshman Students to *Chernet B. Tessema, MD*, Assistant Professor, Biomedical Sciences
- For the names and hometowns of all the award winners, please visit <http://goo.gl/gqEDEj>



Portrait Award—Dean Joshua Wynne; Walter Kemp; and Michael Gilchrist, MS II

School of Medicine and Health Sciences recognizes volunteer faculty

The University of North Dakota School of Medicine and Health Sciences presented the Dean's Special Recognition Awards for Outstanding Volunteer Faculty to the following physicians during commencement ceremonies on Sunday, May 15.

- *J. David Amsbury, DO*, Clinical Instructor of Obstetrics and Gynecology, Minot.
- *Andrew R. Hetland, MD*, Clinical Assistant Professor of Surgery and alumnus (MD Class of 2004), Bismarck.
- *Michael J. Holland, MD*, Clinical Professor of Pediatrics, Minot.
- *Catherine E. Houle, MD*, Clinical Assistant Professor of Family and Community Medicine, Hettinger.
- *Ryan A. Hoovestol, MD*, Clinical Assistant Professor of Internal Medicine and alumnus (MD Class of 2008), Mandan.
- *Michelle M. Jorgensen, MD*, Clinical Assistant Professor of Psychiatry and Behavioral Science, Fargo.
- *Kenneth J. Keller, MD*, Clinical Associate Professor of Radiology and alumnus (MD Class of 1979), Minot.
- *Jennifer L. Mullally, MD*, Clinical Assistant Professor of Pediatrics and alumna (MD Class of 2010), West Fargo.
- *Joshua C. Ranum, MD*, Clinical Assistant Professor of Internal Medicine and alumnus (MD Class of 2008), Hettinger.
- *Elizabeth A. Stroup-Menge, MS*, Clinical Instructor of Psychiatry and Behavioral Science, Bismarck.
- *Marissa A. Wisdom, MD*, Clinical Assistant Professor of Obstetrics and Gynecology and alumna (MD Class of 2005), Bismarck.

"As a community-based school, we could not carry out our educational mission without the dedication and sacrifice of our voluntary faculty members," said Joshua Wynne, MD, MBA, MPH, UND vice president for health affairs and dean of the

School of Medicine and Health Sciences. "In large measure, the quality of our medical education program is dependent on the many physicians throughout the state who serve as volunteer faculty members. They have added and incorporated this activity into their daily medical practices and welcomed our medical students to learn from them and their patients."

"These physicians have gone above and beyond the call of duty in giving our students the benefit of their time, experience, knowledge, and wisdom gained from years of caring for patients," Wynne said. "By example, they have served as superior role models and encouraged our students to define and adopt the highest standards of medical service."

Atrayee Bhattacharya wins Denison Award

Atrayee Bhattacharya, a second-year graduate student in the Department of Biomedical Sciences, won a Denison Award for best graduate student talk at the 108th Annual Meeting of the North Dakota Academy of Science at North Dakota State University in Fargo. Bhattacharya shared first place with cowinner Nilushni Sivapragasam from North Dakota State University.



The title of Bhattacharya's talk was "The Role of CCCTC Binding Factor (CTCF) in Epithelial to Mesenchymal Transition (EMT)." Bhattacharya works in the laboratory of Assistant Professor Archana Dhasarathy, PhD.

Hartenstein receives a 2016 Lillian Elsinga Outstanding Student Leader Award

Sarah Hartenstein, a student in the Medical Laboratory Science Program, was nominated and was selected to receive a 2016 Lillian Elsinga Outstanding Student Leader Award. The staff of the Student Involvement and Leadership Office commended Hartenstein on the recognition and thanked her for her leadership at UND and in the Grand Forks community.

Hartenstein has been the copresident for the UND Medical Laboratory Science (MLS) Club for the last two years. She helped plan two blood drives this school year and last year, and included two other UND student clubs in the blood drive to increase participation. Last year the club participated in the UND Big Event. The club members also went on a tour of the Mayo labs in Rochester, Minn., both years. The club members designed T-shirts and jackets for club members and other students in the MLS major. Club members have planned social events for the club and marched in the UND homecoming parade with the SMHS's float.

Hartenstein and others in the club have also talked to students in biology and chemistry classes about a 4+1 Program whereby the students can obtain a Bachelor of Science in Biology or Chemistry and also obtain a certificate in MLS. She has developed her leadership and organizational skills in making all these activities work and with input from many club members. She also has gained skills in running a meeting by holding club meetings once a month.

Sharlene Rakoczy honored with UND Meritorious Service Award

Sharlene Rakoczy, research specialist in the Department of Biomedical Sciences, was honored with a prestigious Meritorious Service Award from the University of North Dakota at the 2016 Annual Staff Recognition Ceremony and Luncheon on May 10. At the ceremony, UND President Edward Schafer presented the award to Sharlene. Patricia Hanson, UND director of Human Resources, read the following citation about Sharlene's service to the School of Medicine and Health Sciences.

"She is highly respected by coworkers and technicians within our department, the medical school, as well as outside of UND. Many individuals have consulted with her on a variety of procedures. She demonstrates patience and an excellent but humble understanding of the procedures she performs. She comes in whenever necessary. She stays into the evening and comes in on weekends to complete studies and check on equipment. She has been in during the night at least three times in the last nine months with equipment issues of our own lab and others, coming in at 3 a.m. and on Christmas night. She has driven 18 hours on different occasions to pick up special research shipments that were too precious to allow going by carrier. She has been an employee for 23 years—that alone shows her loyalty and service to UND. She is also an avid (total understatement) UND hockey and football fan. A visit to the lab would convince you of her loyalty to UND athletics as there are posters around the lab, memorabilia on her desk, and even a hockey stick hanging from the ceiling!"

To view the School's honorees formally recognized by the University during the annual ceremony, please visit <https://goo.gl/x6uGnb>.

Wilsnacks are part of worldwide research project on alcohol's harm to victims

Chester Fritz Distinguished Professor Sharon Wilsnack, PhD, and Professor Emeritus Richard Wilsnack, PhD, will lead the University of North Dakota School of Medicine and Health Sciences' effort in a worldwide research project to study the harmful effects on persons by the alcohol drinking of others.



Sharon and Richard Wilsnack

Research on the harmful effects of alcohol has traditionally focused on how heavy drinking creates various problems for the drinker himself or herself (for example, negative effects on the drinker's health, financial problems, accidents, and injuries). Recently, however, researchers have started also to study ways in which heavy alcohol use harms persons other than the drinker—for example, alcohol-related sexual and other assaults, abuse or neglect of children, intimate partner violence, or property damage.

The Wilsnacks are a husband and wife research team at the UND SMHS that recently received a four-year, \$525,892 grant from the National Institute on Alcohol Abuse and Alcoholism (NIAAA), a part of the National Institutes of Health. Please read more at <http://goo.gl/6BRb2e>.



Sharlene Rakoczy accepts her award from former UND President Edward Schafer.

From PCL to TLC

MD Class of 2016 will build on their patient-centered learning to deliver top-of-the-line care during their residencies.



Scott T. Allen
North Mankato,
Minnesota
Orthopaedic Surgery
University of Minnesota
Medical School



Taylor L. Braunberger
Dickinson, North Dakota
Transitional Year
University of North
Dakota School of
Medicine and Health
Sciences



Ashley D. Carver
Fargo, North Dakota
Pediatrics
University of Wisconsin
Program



Emerlee H. Andersen
Jamestown, North Dakota
Neurology
University of Cincinnati
Medical Center, College
of Medicine



Emily R. Bromley
Fargo, North Dakota
Obstetrics-Gynecology
Grand Rapids Medical
Education Partners,
Michigan State University



April J. Coming Hay
Dickinson, North Dakota
Family Medicine
University of North
Dakota School of
Medicine and Health
Sciences



Aaron G. Baune
Fargo, North Dakota
Anesthesiology
University of Tennessee
Medical Center



Nathan E. Brunken
Delano, Minnesota
Emergency Medicine
Western Michigan
University, Homer Stryker
MD School of Medicine



Charles T. Crellin
Billings, Montana
Orthopaedic Surgery
Grand Rapids Medical
Education Partners,
Michigan State University
Program



Aaron B. Bettenhausen
Bismarck, North Dakota
Thoracic Surgery
University of Texas
Health Science Center
School of Medicine



Braden A. Burckhard
Burlington, North Dakota
Transitional Year
Gundersen Lutheran
Medical Foundation
Program
Ophthalmology
University of Wisconsin
Program



Anna L. Cymbaluk
Crookston, Minnesota
Pediatrics
Cincinnati Children's
Hospital Medical Center,
University of Cincinnati
College of Medicine
Program



Annie L. Braseth
Kalispell, Montana
Internal Medicine
University of Nebraska
Medical Center



Andresa K. Carlson
Fargo, North Dakota
Internal Medicine/
Preliminary
University of Nevada
School of Medicine
Program
Anesthesiology
Rutgers New Jersey
Medical School Program



Betsy A. Dickson
Gilby, North Dakota
Obstetrics-Gynecology
University of Colorado
School of Medicine

**Graduates listed by
hometown and residencies.**



Eric M. Dowling
Moorhead, Minnesota
Otolaryngology
Mayo School of Graduate
Medical Education



Brandon C. Flores
Stockton, California
General Surgery/
Preliminary
Marshall University
School of Medicine



Tatia L. Hardy
Rolla, North Dakota
Internal Medicine/
Pediatrics
University of Nebraska
Medical Center



Hannah R. Dupea
Bigfork, Montana
Family Medicine
University of Wyoming
(Casper) Program



John J. Fox
Bismarck, North Dakota
Transitional Year
University of North
Dakota School of
Medicine and Health
Sciences
Radiology-Diagnostic
University of Vermont
Medical Center Program



Shay S. Hartvickson
Wolford, North Dakota
Transitional Year
Madigan Army Medical
Center



Samantha L. Dusek
Grafton, North Dakota
Family Medicine
Altru Health System



Roza D. Glessing
Fargo, North Dakota
Internal Medicine
University of North
Dakota School of
Medicine and Health
Sciences



Jerrod T. Heermans
Argyle, Texas
General Surgery/
Preliminary
University of Nebraska
Medical Center
Urology
University of Nebraska
Medical Center, College
of Medicine Program



Layne M. Egan
Valley City, North Dakota
Anesthesiology
University of Minnesota
Medical School



Robert C. Gokey
Minot, North Dakota
Transitional Year
University of North
Dakota School of
Medicine and Health
Sciences



Michaela C. Heller
Fargo, North Dakota
Obstetrics-Gynecology
Akron General Medical
Center, Northeast Ohio
Medical University
Program



John P. Emmel
Fargo, North Dakota
Internal Medicine
Abbott-Northwestern
Hospital Program



Joshua T. Greene
Devils Lake, North
Dakota
Family Medicine
Altru Health System



Josalynne L. Hoff
Bowdon, North Dakota
Family Medicine
University of North
Dakota School of
Medicine and Health
Sciences



Tanner L. Ferderer
Dickinson, North Dakota
Neurology
University of Minnesota
Medical School



Dane T. Hammer
Minot, North Dakota
Pediatrics
University of Wisconsin
Program



Kristopher W. Holaday
West Fargo, North
Dakota
Internal Medicine
Abbott-Northwestern
Hospital Program



Turner K. Fishpaw
Minot, North Dakota
Family Medicine
University of Kansas
School of Medicine



Lucas M. Holkup
 Wahpeton, North Dakota
 General Surgery
 University of North
 Dakota School of
 Medicine and Health
 Sciences



David P. Larson
 Austin, Minnesota
 Otolaryngology
 Mayo School of Graduate
 Medical Education



Rachel M. Marohl
 Williston, North Dakota
 Obstetrics-Gynecology
 University of Kansas



Andrew J. Hughes
 Bismarck, North Dakota
 Psychiatry
 Oregon Health and
 Science University
 Program



Elliot M. Lawrence
 Park Rapids, Minnesota
 Internal Medicine
 University of South
 Dakota, Sanford School of
 Medicine



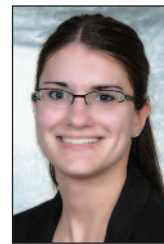
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 Valley Medical Center
 Program



Brett J. Lee
 Walhalla, North Dakota
 Internal Medicine/
 Preliminary
 Neurology
 Oregon Health and
 Science University
 Program



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 Dickinson, North Dakota
 Emergency Medicine
 John Peter Smith Hospital
 (Tarrant County Hospital
 District) Program



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 Transitional Year
 University of North
 Dakota School of
 Medicine and Health
 Sciences
 Dermatology
 Case Western/Metro
 Health Medical Center



Tyler W. Looyesen
 Jamestown, North Dakota



Vamshi K. Mugu
 Grand Forks, North
 Dakota
 General Surgery/
 Preliminary
 Radiology-Diagnostic
 Mayo School of Graduate
 Medical Education



Natalie J. Krier
 Gregory, South Dakota
 Family Medicine
 North Colorado Medical
 Center Sterling Rural
 Program



Laramie V. Lunday
 Belcourt, North Dakota
 Family Medicine
 Siouxland Medical
 Education Foundation
 Program



Valerie Norris
 Red Lake, Minnesota
 Pediatrics
 University of South
 Dakota, Sanford School of
 Medicine



Delbert J. Lamb
 Timber Lake, South
 Dakota
 Anesthesiology
 Duke University Medical
 Center Program



Jeffrey T. Maddock
 Bismarck, North Dakota
 General Surgery/
 Preliminary
 University of North
 Dakota School of
 Medicine and Health
 Sciences
 Radiology-Diagnostic
 Dartmouth-Hitchcock
 Medical Center Program



Dakota A. Orvedal
 Grafton, North Dakota
 General Surgery/
 Preliminary
 University of North
 Dakota School of
 Medicine and Health
 Sciences
 Radiology-Diagnostic
 Virginia Mason Medical
 Center Program



John C. Riedinger
Bismarck, North Dakota
Neurology
University of Minnesota
Medical School



Ian S. Roche
Grand Forks, North
Dakota
Anesthesiology
University of Wisconsin
Hospitals and Clinics



John F. Roller
Bismarck, North Dakota
Internal Medicine
University of Kansas
School of Medicine



Mark D. Rostad
Fargo, North Dakota
Internal Medicine
Gundersen Lutheran
Medical Foundation
Program



Nicole A. Samson
Devils Lake, North
Dakota
Family Medicine
Altru Health System



Jared M. Sander
Fargo, North Dakota
Obstetrics-Gynecology
University of Arizona
College of Medicine



Erin L. Schlenker
Grand Forks, North
Dakota
Internal Medicine
University of Iowa
Hospitals and Clinics
Program



Kirsten M. Schneider
Washburn, North Dakota
Pediatrics
University of South
Dakota, Sanford School of
Medicine



Sondra M. Schultz
Fargo, North Dakota
Psychiatry
University of Arizona
College of Medicine



Justin N. Shipman
Watford City, North
Dakota
Internal Medicine
Mayo Clinic College of
Medicine (Arizona)
Program



Aaron A. H. Smith
Grand Forks, North
Dakota
Internal Medicine
Hennepin County
Medical Center Program



Robert J. Steininger
Eagan, Minnesota
General Surgery
University of North
Dakota School of
Medicine and Health
Sciences



Emma L. Swanson
Fargo, North Dakota
Anesthesiology
University of Iowa
Hospitals and Clinics
Program



Erica K. Tauck
Roseau, Minnesota
Transitional Year
University of North
Dakota School of
Medicine and Health
Sciences
Physical Medicine and
Rehabilitation
University of Texas
Southwestern Medical
School



Jacob B. Torrison
St. Louis Park, Minnesota
Internal Medicine/
Preliminary
University of Toledo
Program
Neurology
Rush University Medical
Center Program



Michael D. Traynor Jr.
Fargo, North Dakota
General Surgery
Mayo School of Graduate
Medical Education



John K. Tronnes
Bagley, Minnesota
Family Medicine
University of Minnesota
Medical School, St. Cloud
Hospital Program



Michael B. Walery
Bismarck, North Dakota
Family Medicine
University of North
Dakota School of Medicine
and Health Sciences



Meghan E. Watne
Jamestown, North Dakota
Family Medicine
Providence St. Peter
Hospital



Elisha E. Webster
Mitchell, South Dakota
Family Medicine
University of North
Dakota School of
Medicine and Health
Sciences



NIH Grant Recognizes UND's Biomedical Research Power

Meeting of minds in the Department of Biomedical Sciences leads to great science.

By Juan Pedraza



Brij Singh

Recognizing the already notable reputation of the University of North Dakota's biomedical research enterprise, the federal government awarded a \$10.7 million grant to a group of scientists based at UND's School of Medicine and Health Sciences (SMHS) to dig deeper

into the many questions surrounding infectious diseases such as Lyme disease, HIV, and Zika.

The U.S. Department of Health and Human Services five-year grant is named "Center for Excellence in Host-Pathogen Interactions." The principal investigators

are David Bradley, Malak Kotb, and Brij Singh, all of the SMHS. The grant is one of several COBRE grants awarded recently. COBRE (pronounced "KOH-bree") is an acronym for the NIH's Centers of Biomedical Research Excellence program.

"The objective of this COBRE grant is to gain further understanding of devastating infectious diseases including lung infections, neuro-inflammation and parasitic diseases," said Singh, a Chester Fritz Distinguished Professor of Biomedical Sciences at the SMHS.

Five other SMHS scientists will work collaboratively on this COBRE research program: Catherine Brissette, Xuesong Chen, Bibhuti Mishra, Jyotika Sharma, and Min Wu.

Students are also an important part of this grant as several will be working alongside each of the SMHS scientists named.

Level playing field

The COBRE program was designed by the National Institutes of Health (NIH) to cultivate research expertise among junior faculty and strengthen the research infrastructure of states that do not receive as much NIH funding as some larger states.

"This COBRE award complements the two other COBRE grants currently active at UND and the SMHS, and will be a powerful engine to speed the development of further discoveries that can be applied at the bedside to help patients with infectious disease," said Joshua Wynne, MD, MBA, MPH, UND vice president for health affairs and dean of the SMHS. "We are extremely proud of all of our faculty members who are part of this wonderful award."

"This is a major coup for UND and a clear testament to the confidence that the Department of Health and Human Services has in our research capabilities," said Grant McGimpsey, UND vice president of research and economic development.

"This also shows the high-impact research that is done by investigators at the School of Medicine and Health Sciences and UND," Singh said.

This COBRE follows two others recently renewed for research projects at UND's SMHS:

- COBRE Center for Neurodegenerative Disorder Research, \$26 million
- COBRE Epigenetics Bioinformatics Core, \$10.7 million

Legacy of funding

In 2002, the UND SMHS received a \$10.4-million, five-year award from the NIH to establish a nationally recognized COBRE. That grant was renewed in 2007 for another five years at \$10.1 million, and in 2012 for another five years at \$5.1 million.

UND's COBRE funding supports collaborative projects promoting research opportunities for biomedical investigators in North Dakota. These projects offer broad potential for understanding and treating pathophysiological and neurodegenerative diseases, and also provided funds to establish imaging and mass spectrometry facilities.

Additionally, the UND SMHS has received an INBRE grant—also recently renewed—for \$13 million. ND INBRE (pronounced "in-BRAY") is the North Dakota IDeA (Institutional Development Award) Network of Biomedical Research Excellence. It's the NIH's IDeA program, an effort to expand North Dakota's research foundation by funding basic, clinical, and translational research; faculty development; and infrastructure improvements.

The UND SMHS biomedical research enterprise has current COBRE and INBRE grants totaling close to \$45 million.



David Bradley

“This is a major coup for UND and a clear testament to the confidence that the Department of Health and Human Services has in our research capabilities.”



Malak Kotb

Mentoring for Youth

For medical students and children, it is a two-way learning experience.

By Juan Pedraza



Mentoring Youth Mentors

First row, from left: Malia Grosskreutz, Kim Herman, and Kelvin Dan. **Second row:** Samantha Dusek, Amber Nielsen, Shelby Dvorak, and Scott Poswilko. **Back row:** Delbert Lamb, Matthew McGee, Christopher Hellekson, Al Johnson, Luke Hushagen, Jason Duchscherer, Ethan Kraft, and Tyler Downing.

Between frames at a bowling alley located in Mandan, N.Dak., Delbert Lamb laughs it up with a young student from a local elementary school.

Lamb, a then fourth-year medical student at the University of North Dakota (now a graduate of the Medical Student Class of 2016), is among third- and a few fourth-year UND medical student mentors and their mentees. The group is loudly gregarious, having a great time, even if a lot of the bowling balls they roll jump into the gutter.

“We’re all part of the Mentoring for Youth Program,” said Lamb, who was in medical school with the Indians Into Medicine Program (INMED) at the UND School of Medicine and Health Sciences. “It’s an exciting experience. I and many of my colleagues all believe this a great opportunity—for us and the schoolchildren we’re mentoring.”

It’s paying it forward for Lamb.

“I was mentored growing up, and several of my mentors exposed me to healthcare and to doing the right thing,” said Lamb, who clearly is enjoying this Friday

afternoon away from the rigors of fourth-year medical studies. “So now I’m mentoring these middle school kids who are going through lifestyle and other changes. They’re growing up rapidly, so I am glad to be able to be there as an extra person to help them along through school and personal problems.”

“This whole mentoring program is kind of a full circle for me, which is nice,” said Lamb, who was also an INMED counselor previously.

Circulating among the medical students and their charges is an energetic woman, smiling and chatting for a few minutes with everyone there. Everyone responds to her enthusiastically—it’s because of Beth Stroup-Menge that they’re all here bowling today. And it’s Stroup-Menge who launched the Mentoring for Youth Program more than 20 years ago—and delivers an enthusiastic presentation to every class of about 20 UND medical students who show up annually for their third-year at the SMHS Southwest Campus in Bismarck.

Dr. Keith Foster, Southwest Campus dean in the 1970s, saw a need for medical

students to be exposed to adolescents, their needs, and their risks. The mentoring program was established to address this gap in medical school education.

“A lot of time, physicians don’t see adolescents except for sports physicals, or unless they’re involved in accidents and they see them in emergency rooms. Medical students here were not getting the education for dealing with those issues,” said Stroup-Menge, a licensed social worker and licensed addiction counselor at Heartview Foundation in Bismarck when she’s not running the mentoring program for the UND SMHS.

“We felt that to get to know adolescents and really understand how to work with them, you needed a period of time—and mentoring for a school year was the way to go,” said Stroup-Menge, a jovial person who is very articulate in explaining this innovative—and still very unusual—program for medical students. After working with several youth-related facilities in the area, including schools and the state’s youth corrections program, Stroup-Menge worked out a plan with Theodore Jamerson Elementary School on the campus of the United Tribes Technical College.

“It is primarily Native American children who attend that school,” said Stroup-Menge, who has a master’s degree in education with an emphasis in addiction counseling from North Dakota State University. “Often, their parents are attending UTTC. We have mentored students at Theodore Jamerson Elementary School since 2001.” It’s kids from that school who are at the bowling alley with their UND medical student mentors.

Her interest in this type of relationship building with youth is lifelong.

“I was driven to that field when I was in high school. Some of my friends were abusing chemicals,” said Stroup-Menge. “I started talking with teachers, and when I was a senior in high school, I was named to the Mercer County Prevention Team [now called Prevention Coalition of Mercer County]. I was a teenager myself, helping Mercer County develop a prevention program. I went to college and the thread of interest stayed with me.”

Stroup-Menge notes that part of the reason she was tapped to launch UND’s Mentoring for Youth Program is that her undergraduate degree is in child development and family relations.

“Working with kids, I was aware of the developmental pieces,” a key factor behind the Mentoring for Youth Program, she said. “This mentoring program is unique. I worked with Dr. Foster, at the time he was the medical director at Heartview Foundation. He said we have got to teach medical students about adolescence. And so we launched the mentoring program.”

At first the mentoring program was mandatory—third-year medical students on the Bismarck Campus had to participate.

“Through the years it’s become a voluntary program,” Stroup-Menge said. “Almost every medical student on this campus volunteers to participate in the Mentoring for Youth Program. It’s a great opportunity to see things a little bit differently. I see the kids teaching the medical students about adolescence; what is it that they’re going through, what they’re struggling with.”

“We try to capitalize on teachable moments,” Stroup-Menge said. “When the kids talk about things, we learn what this would

mean for our medical students once they’re practicing physicians.”

The mentoring program includes occasional presentations relevant to adolescence, such as inhalant addiction, street drugs, legal issues involving youth, and adolescent development.

“So our medical students go into this mentoring experience with their eyes open,” Stroup-Menge said.

For the third-years, it’s a weekly connection with their mentees during the school year.

“Just about every Friday afternoon the medical students go out to the UTTC campus, pick up their youth and take them to activities I organize for them—they’re not obliged to participate in those preselected activities. Once per rotation, I have them go out on their own for a one-on-one experience,” Stroup-Menge explained. “When the Legislature is in session, we’ll go there; we go to the Heritage Center; we go to Papa’s Pumpkin Patch. In other words, we get out into the community. So over the course of the year, the medical students and the school kids they’re mentoring spend a lot of time together.”

“For the kids trying to get ahead in life, it’s giving them some exposure to **how to become successful.**”

The medical student picks up the child at the school. They attend the activity and then take the child home.

“Theodore Jamerson Elementary School absolutely loves this program,” Stroup-Menge said. “They see it as an opportunity for their kids to get that positive adult role model.”

For Dr. Michael Booth, associate dean of the Southwest Campus, Bismarck, the program builds vital skills among the students who participate.

“It’s a terrific program,” said Booth, who previously ran the surgery clerkship for 15 years. “Over the years, my role relative to the Mentoring for Youth Program has been primarily to be supportive, making sure that we encouraged it, including making sure that more of our third-year students could get Friday afternoons off so that they could travel to the school.”

The key benefit of the Mentoring for Youth Program to medical students, according to Booth, is helping the medical students who participate to develop sensitivity to what it’s like for kids, especially minority kids.

The Mentoring for Youth Program is part of the School of Medicine and Health Sciences’ service learning commitment. The School’s introduction to this subject says, in part, “service learning is a structured learning experience that combines community service with explicit learning objectives, preparation, and reflection.” In that context, the Mentoring for Youth Program aims to “strengthen youth in our communities through a consistent and caring long-term mentoring relationship.”

“For the kids trying to get ahead in life, it’s giving them some exposure to how to become successful,” Booth said. “Medicine is one, but by no means the only, avenue to success. But they can see with our medical students that this really can be done. The school kids can always find someone they can relate to in our group of third- and fourth-year medical students.”

Community Showcases Introduce Future Physician Prospects to North Dakota Communities

Unique events draw providers and communities together.

By Stacy Kusler



Minot Community Showcase

Picture yourself at a traditional physician job fair. It's cramped, it's loud, the booths are too close together, and it seems like two or three booths are getting all of the attention. Sound familiar? If you're a healthcare organization, you've likely been in this position before. However, North Dakota healthcare facilities still see these events as a necessary effort to attract physician candidates. Knowing the drawbacks of the traditional job fair setting, while also keeping in mind the importance of getting the information about North Dakota healthcare facilities into the hands of North Dakota-trained physicians, is what motivated a partnership to bring new recruitment events to all four corners of North Dakota this past year.

The Area Health Education Center (AHEC), the Center for Rural Health (CRH), and the University of North Dakota School of Medicine and Health Sciences Department of Family and Community Medicine's Office of Primary Care collaborated to organize four Community Showcase events around the state during March and April of 2016. These events allowed North Dakota communities

(healthcare facilities) to "showcase" what it's like to live and work in their particular location within the state. Events were held in Minot, Grand Forks, Fargo, and Bismarck. Current UND medical students as well as current North Dakota medical residents were invited to meet and mingle with various healthcare facilities from around the state. The showcase events attracted an average of 10 North Dakota healthcare facilities per event, and the four events drew attendance in total of over 60 medical students and residents.

The structure of the Community Showcases differed slightly from traditional job fairs. Rather than have facilities set up booths and wait for attendees to stop and seek out information, each community in attendance was given a specific five-minute time slot to present information about their community and practice opportunity in front of the entire audience of attendees. This unique structure allowed all attendees to hear from all facilities even if they didn't have a chance to visit their booth individually. Additionally, each medical student and resident in attendance was also given time to introduce themselves and

share what area of practice they hope to pursue, and what post-residency plans they may have in mind. After the brief presentations were complete, the healthcare facilities and attendees were able to connect individually and learn about what a future employer-and-employee relationship could look like.

The North Dakota Community Showcases were modeled after an event the Idaho Bureau of Rural Health and Primary Care hosts each year, called Meet the Residents. Whereas the Idaho event focused solely on medical residents nearing completion of their residency, the North Dakota Community Showcases focused primarily on UND's third- and fourth-year medical students in addition to medical residents. Many North Dakota healthcare facilities find it difficult to connect with residents in the state, and even more difficult to connect with medical students. That, combined with the growing trend for facilities to recruit earlier and earlier, communities needed a way to connect with our locally trained medical professionals before they reached the stage of residency and a possible out of state move. The showcases provided a unique opportunity to meet the medical students and residents, and make connections that it is hoped will bear fruit in the form of an employment agreement.


Northland Community Health Centers, a Federally Qualified Health Center with locations in seven communities

throughout the state, attended all four showcase events. Jessica Westphal, outreach and enrollment coordinator for the organization based out of Turtle Lake said, "Of all the [recruitment] events I have attended, I must say this is by far my favorite. I loved the interaction, and I think it was a great opportunity to talk about our company and listen to what the students have to say. In most cases, we don't get to reach as many students individually."

Mountrail County Medical Center (MCMC) in Stanley also attended all four events. Dr. Mark Longmuir, MCMC's one and only physician, took time away from his practice to attend two of the four showcase events. "I thought it was great to be able to talk to the residents and medical students about our facility, as well as healthcare not only in rural areas but in all of North Dakota," Longmuir said.

MCMC's CEO, Rocky Zastoupil, was also able to attend the Minot and Bismarck events. During his five-minute presentation, Zastoupil expressed the need for another physician to join Dr. Longmuir to serve the patient population in rural Stanley. "I've done the big city thing, and I've come back to rural. It's important to go where you're needed. That's what I did, and I hope that's what you do too."

Dates have not been set for the 2017 Community Showcase events.

Further information will be published on the Center for Rural Health's website: <http://www.ruralhealth.und.edu>. 

**“I’ve done the big city thing,
and I’ve come back to rural.”**



Rocky Zastoupil and Dr. Mark Longmuir speak at the Minot Community Showcase.

Mind Matters

Conference on brain injury brings together health professionals, caregivers, and family members.

By Nikki Massmann



Panel discussion at the Mind Matters Conference.

North Dakota is home to a unique annual conference that brings together both healthcare professionals and patients. The Mind Matters Conference on Brain Injury is coordinated by the North Dakota Brain Injury Network (NDBIN) housed within the Center for Rural Health at the UND School of Medicine and Health Sciences.

The conference attracts a diverse, multidisciplinary range of professionals because of the array of providers needed to successfully support individuals who have sustained a brain injury. Physicians, nurses, rehabilitation professionals, behavioral health counselors, educators, vocational specialists, paraprofessionals, individuals with brain injury, and family members all come together once a year to discuss the latest research, trends, practice strategies, and collaborative models of care for individuals with brain injury. The 2016 conference saw its highest attendance to date: 131 total attendees, 62 of whom were brain injury survivors or family members.

Each year in North Dakota, an estimated 3,693 individuals sustain a traumatic brain injury (TBI). More than

13,000 North Dakotans are currently living with a long-term disability from TBI. The Mind Matters Conference is an opportunity to bring a personal element to these statistics and raise awareness of the issues TBI survivors face in getting the care and support they need for daily life. Experts on brain injury and its effects present the latest information on caring for those with brain injury.

Rebecca Quinn, program director of the North Dakota Brain Injury Network, is a member of the Mayo Clinic Brain Injury Advisory Committee. Through this relationship, the Mayo Clinic, which is a national traumatic brain injury model system, sends a speaker to the conference each year as part of their dissemination efforts for research on brain injury.

“Mayo’s partnership with our conference is so beneficial,” Quinn said. “We are able to provide the latest and most innovative information to our attendees. It also provides an informal connection to Mayo’s expertise for North Dakota’s network of health professionals who work with individuals with brain injury.”

Additional local, state, and national experts on a multitude of brain injury topics round out the conference's agenda. Attendees receive continuing education credits. The attendees include health professionals from the fields of social work, nursing, audiology, addiction counseling, counseling, and psychology. The conference is supported by partner organizations throughout North Dakota, including Sanford Health, Onword Therapy, Progressive Therapy, Heartview Foundation, North Dakota Protection and Advocacy, St. Sophie's, and Community Options.

"These partners provide valuable input and support to the Mind Matters Conference," Quinn said. "Because they all specialize in different aspects of the care a brain injury survivor needs, their involvement contributes to a conference agenda with topics on anything from speech therapy and daily coping mechanisms to dealing with addiction."

Other supporting organizations will send speakers and exhibitors as well. Quinn said, "In addition to our experts from larger facilities within North Dakota, many of our exhibitors and speakers come from outside the state. Some of our population receive specialized care out-of-state, and those out-of-state facilities need somewhere to send their patients home to. Because of this, community-based services are a big need in our state, and those larger organizations are happy to help out with training and presentations to help build our capacity within the state to care for brain injury survivors, particularly in rural areas."

The highlight of the Mind Matters Conference each year is the panel discussion by brain injury survivors. Even though its content wouldn't count toward continuing education credits, the planning committee wouldn't cut it from the agenda because of its effect on attendees.

"The panel is a guided discussion about recovery, coping mechanisms, and sharing their stories in general on how they acquired their brain injuries, and how it affects their daily lives," Quinn said. "The attendees that are survivors really relate to the panelists' stories, and the health professional attendees appreciate getting to hear that perspective from

clientele and patients. It's a powerful and moving part of the conference."

This year's Mind Matters Conference was especially important for one North Dakota family, the Medenwalds, and Quinn. During the year leading up to the conference, Jeremiah Medenwald and his mother, Roxann, were struggling to find appropriate care for the resulting effects of Jeremiah's brain injury. Although they had spoken over the phone throughout the year, Quinn and the Medenwalds had never met in person. When Roxann arrived at the conference, she greeted Quinn with tears of gratitude.

"Rebecca is our family's angel," said Roxann. "Because of her and the North Dakota Brain Injury Network, Jeremiah gets to spend time with his son and his family. He has an understanding of how to take care of himself following his brain injury. Before I met Rebecca, I was hitting brick walls trying to find appropriate resources."

For Quinn, meeting the families and seeing them connect with each other is priceless. "Brain injury can be such an isolating condition. The conference provides them with a forum for peer networking and learning about the science behind their conditions. It's not your typical conference since it blends survivors and health professionals. It ends up being a familial environment. For us health professionals, it really reenergizes our purposes as advocates for brain injury survivors and support services throughout North Dakota."

The annual Mind Matters Conference on Brain Injury is facilitated by the North Dakota Brain Injury Network (NDBIN), housed at the Center for Rural Health at the University of North Dakota School of Medicine and Health Sciences. NDBIN is funded by the North Dakota Department of Human Services. For more information on Mind Matters, visit www.ndbin.org.

“Brain injury can be such an isolating condition.”



Rebecca Quinn, center, speaks with the Medenwalds.

Jondle's Immunology Research Receives Recognition

Graduate student is thankful for support from mentors.

By Amanda Menzies



Jyotika Sharma and Chris Jondle

Christopher Jondle, a graduate student mentored by Assistant Professor Jyotika Sharma, PhD, in the Department of Biomedical Sciences, recently had his abstract accepted for an oral presentation at Immunology 2016, the annual meeting of the American Association of Immunologists (AAI).

Jondle graduated in 2½ years from Monroe (Michigan) Virtual High School and then went on to attend the University of Wisconsin Green Bay to pursue a degree in human biology at the age of 17. While attending Green Bay, Jondle's love for science and discovery continued to grow, and because of that he added a chemistry major as well.

"While I was contemplating my future, my mentor suggested that I consider graduate school, given that I loved teaching and research. At that time, I was taking an immunology class from my mentor and was fascinated by all that I learned. That fascination turned into a desire to learn and discover all I could in the field of immunology. So it was due to my mentor's advice and class that I decided to apply to graduate school and pursue a PhD in immunology," Jondle said.

Jondle is attending UND to complete his PhD in immunology and microbiology.

"I chose to come to UND because I was interested in the research that my principal investigator (Professor Sharma) was doing, and I also liked the area. It felt like home," Jondle said.

Jondle first met Sharma when he interviewed for the graduate program. "He expressed a keen interest in immunology and my research program," Sharma said. "I was impressed by his curiosity and clearheadedness about his goals. So I was only happy when he expressed his desire to join my lab."

Sharma's research focuses on pneumonic sepsis, which is a life-threatening medical condition that results from a systemic inflammatory response by the body to fend off a severe infection or to recover from a traumatic injury. The onslaught of sepsis is frighteningly fast; it can progress from simple sepsis to severe sepsis to septic shock sometimes within hours.


"I chose pneumonic sepsis as my research focus because it is a highly complex disease and, despite decades of research, we are still far from having an effective treatment for it. There is still a lot that needs to be done to fully understand what goes wrong with a patient who comes in with a simple pneumonia, receives antibiotics and to the doctor's horror, despite showing clearance of infection, succumbs to hyperinflammation and organ failure. The doctor wants to know why, and this is where our research gets meaning," Sharma said.

Every student in Sharma's lab gets at least two independent projects. One is a "high-risk/high-yield project" and the other a "safe project."

For one of Jondle's projects, he is looking at the impact of *Klebsiella pneumoniae* on the main cells involved in the body's immune reaction to remove dead cells from the bloodstream. *Klebsiella* is a type of bacteria that can cause different infections, including pneumonia, bloodstream infections, or surgical site infections and meningitis.

Jondle's work has been recognized by the American Association of Immunologists. He has also won awards by presenting his research at top-notch immunology conferences, and he wrote two publications in top-tier immunology journals. These accomplishments have helped to validate Jondle and Sharma's research.

In the next year or so, Jondle plans to graduate with his PhD and continue his fellowship, where he can build on his research and management skills needed to one day become a full professor.

"We hope that the discoveries we are making in our lab, which are being recognized, will help us get a step closer to finding a viable therapy not only for sepsis but for other diseases where too much or too little activation of the immune system is the root cause. I think finding a rheostat to control the immune response so that it matches the disease is key. I believe that's where our research is taking us," Sharma said. 

"I chose to come to UND because I was interested in the research that my principal investigator was doing."



Doctor of Medicine Class of 2016

Front Row (from left): Associate Dean Michael Booth, Associate Dean Cornelius “Mac” Dyke, Assistant Dean Patrick A. Carr, Associate Dean Richard Van Eck, Associate Dean Kenneth G. Ruit, Associate Dean Randy S. Eken, Senior Associate Dean Gwen W. Halaas, Dean Joshua Wynne, Associate Dean Marc D. Basson, Associate Dean Joycelyn A. Dorscher, Assistant Dean Scott E. Knutson, Assistant Dean Susan K. Zelewski, and Assistant Dean Stephen J. Tinguely.

Row 2: Aaron Bettenhausen, Natalie Krier, Vamshi Mugu, Ashley Carver, Meghan Watne, April Coming Hay, Amanda McMahon, Nicole Samson, Michaela Heller, Elisha Webster, Roza Glessing, Emma Swanson, Josalynne Hoff, Rachel Marohl, and Anna Cymbaluk.

Row 3: John Riedinger, Andrew Hughes, Emily Bromley, Erica Tauck, Laramie Lunday, Jacob Torrison, Dane Hammer, Emerlee Andersen, Shayna Metzger, Kirsten Schneider, Natalie Kollman, Sondra Schultz, Andresa Carlson, Delbert Lamb, Hannah Dupea, Layne Egan, Scott Allen, and David Larson.

Row 4: Michael Traynor Jr, Eric Dowling, Turner Fishpaw, Jeffrey Maddock, Brett Lee, Aaron Smith, Shay Hartvickson, John Emmel, Samantha Dusek, Michael Walery, Ian Roche, Robert Steininger, John Fox, Jerrod Heermans, Annie Braseth, Betsy Dickson, Tyler Looyesen, and Erin Schlenker.

Row 5: Lucas Holkup, John Roller, Josh Huhndorf, Brandon Flores, Elliot Lawrence, Mark Rostad, Kristopher Holaday, Nathan Brunken, John Tronnes, Dakota Orvedal, Braden Burckhard, Aaron Baune, Jared Sander, Tatia Hardy, Joshua Greene, Charles Crellin, Tanner Ferderer, Justin Shipman, and Robert Gokey.



Three occupational therapy alumnae celebrated the graduation of their daughters in the Occupational Therapy Class of 2016. From the left are Julie Demars (1978) currently employed at Northeast Human Services, Grand Forks, N.Dak., and Emily Proctor (2016); Beth Ann Mairs (1987) currently employed in the Fargo, N.Dak., Public Schools and Alyssa Briggs (2016); and Lori Kurtz (1991), currently employed at CHI St Alexius, Health in Devils Lake, N.Dak., and Chelsea deBruto (2016).

Out of the Fog

UND Doctor of Physical Therapy graduate Amy Harmon is on her way to a new job in California after recovering from a traumatic brain injury that brought her years of obstacles, setbacks, and uncertainty.

By Juan Pedraza



Amy Harmon is hooded at graduation by her parents Patti and Scott Harmon and Amy's Graduate Adviser Dr. Peggy Mohr.

Amy Harmon graduated this spring with a Doctor of Physical Therapy degree from the University of North Dakota.

She didn't fall this time.

Harmon, a native of Jackson Hole, Wyoming, had surmounted long odds in her trip to the commencement stage.

"She fell on a wet tile floor and suffered a traumatic brain injury, which drastically altered her way of living," said Peggy Mohr, a faculty member in the UND School of Medicine and Health Sciences' Department of Physical Therapy and one of Harmon's mentors. "Amy lost her ability to smell and taste, to respond emotionally, and she experienced a radical decline in her

cognitive abilities and academic performances."

"I was unable to recognize the severity of my injury immediately after the injury, and when those deficits became evident, I found myself trying to keep the changes hidden from the outside world," said Harmon, noting that before the accident, she'd never failed a college course.

Harmon didn't receive physical therapy after her injury, which happened in 2009—still, she chose to pursue that major because she wanted to help others with similar issues.

"I know that rehabilitation therapy could have alleviated many of the residual symptoms that took me years to overcome," Harmon said.

Mohr noted that in addition to regaining her

active lifestyle, Harmon was forced to relearn how to master her coursework and monitor her activity levels to avoid extreme fatigue.

“During her physical therapy coursework, Amy indicated that she has struggled with the volume of content and has often felt overwhelmed,” Mohr said. “She has had to develop, among skills and abilities, an awareness of her academic strengths and weaknesses, time management skills, and an awareness of the effects of having a positive attitude.”

She has thus been able to reset her cognitive processes by incorporating relaxation activities and restructuring her time-management plan.

“As a result, Amy feels able to better take care of herself both physically and mentally,” Mohr said.

In retrospect, Harmon says, she can appreciate living a fully functional life—and that includes hitting and surpassing her academic and professional targets.

“I tested early and passed for the (national physical therapy) boards,” Harmon said.

It all adds up to an enhanced career, she says.

“I will be able to relate to my future patients because I experienced a ‘disability’ first hand, so I understand from personal experience what it’s like to face a long, daunting road toward recovery, with many struggles and obstacles along the way,” Harmon said.

“My experience with the frustrations of setbacks, lack of progress, and uncertainty will help me to connect with future patients on a different level,” Harmon said. “Not only will I be able to provide a listening ear, but I will be able to connect with genuine empathy.”

Amy’s story

What follow are brief excerpts from Harmon’s own description of her accident and long recovery:

Drip. Drip. A two-liter soda was tipped over, pooling its contents onto the floor. It appeared as if it had been tipped over for some time and nobody cared.

The liquid had spread its fingers to follow the grout lines of the tile floor

spanning the length of the kitchen counter, creating a perfect bubble-jumping, fizzing puddle.

I rushed over for a dishrag to quickly clean it up but never made it.

My feet slipped out from beneath me and then I was surrounded by blackness; lights out.

My journey to becoming a physical therapist started on a warm summer night, a wet tile floor, my brain, the ER, and a neurologist.

In 2009, I suffered from a traumatic brain injury (TBI), which drastically altered my way of living. I lost the ability to smell and taste for over a year, and came face to face with the possibility of dropping out of school due to my radical decline in cognitive abilities and academic performance.

I am able to utilize my previous struggles, with didactics, to help drive me toward success. Throughout physical therapy school, I have struggled with the volume of content we are responsible for knowing; oftentimes I feel overwhelmed.

Because of my TBI, I have developed a strong awareness of my academic strengths and weaknesses. These include my drive for success, developing time-management skills, and having a positive attitude.

Looking back at how lost and confused I was, I can truly appreciate living a fully functional life.

I am confident I can relate to my future patients because I experienced a ‘handicap’ firsthand.

I know what it’s like to face a long, daunting road towards recovery, with many struggles and obstacles along the way.

I have experienced the frustrations of setbacks, lack of progress and uncertainty firsthand. My experience will provide me with the ability to connect on another level with my patients.

Not only will I be able to provide a listening ear but also connect with genuine empathy.

Eventually I would like to own my own clinic. I’ve chosen to work in outpatient orthopedics and specialize in vestibular and sports medicine with the job I took in Santa Monica, Calif.

—Amy Harmon 

“ **I am confident I can relate to my future patients because I experienced a ‘handicap’ firsthand.** ”

'10s

Dustin Hager, MPAS '10, was named the 2016 National Rural Health Association Practitioner of the Year. NRHA's Rural Health Practitioner of the Year Award recognizes a direct service provider for leadership in bringing health services to rural populations. Hager is a provider for Heart of America Health Center in Rugby, N.Dak.

'00s

Derrick Cote, MD '08, is now an orthopaedic surgeon at the Bone & Joint Center in Dickinson, N.Dak. Cote specializes in trauma, total joint, and sports medicine orthopaedic procedures.

'90s

Scott Charette, MD '93, is now seeing patients at Cavalier County Memorial Hospital and Clinic in Langdon, N.Dak., and Altru's Specialty Care in Cavalier, N.Dak. Charette serves as the medical director of Surgical Services for Altru Health System. In addition to seeing patients in Grand Forks, Devils Lake, Crookston, and now Langdon and Cavalier, he provides telemedicine services to many regional locations.



William Bock, MD '91, has joined Rainy Lake Medical Center in International Falls, Minn., and Sanford Bemidji (Minn.) as a pediatrician. He offers outreach care for newborns, toddlers, and young adults at the Rainy Lake Clinic. His main practice is at the Sanford Bemidji Children's Clinic.

'80s

Mary Aaland, MD '82, is now serving CHI Mercy Hospital in Devils Lake, N.Dak., as a general surgeon through the Rural Surgery Support Program at the University of North Dakota School of Medicine and Health Sciences, where she is director of Rural Surgery. Aaland, a native of Northwood, N.Dak., completed her general surgery residency rotations at Yale Affiliated Regional Surgical Residency Programs, University of South Dakota in Vermillion, S.Dak., and University of Illinois at Peoria, Ill. She was a burn research fellow at Shriners' Burn Institute and a JD Martin trauma fellow at Emory University.



'70s



William Cornatzer, BS Med '79, recently joined Sanford Health in Bismarck, N.Dak. He is a North Dakota native and has worked as a dermatologist in the Bismarck region for the past 31 years.



Kenneth Keller, MD '79, recently retired as medical director of Trinity Health's Radiology Department in Minot, N.Dak. Keller had more than 30 years of service. A native of Bismarck, Keller joined Trinity Health in 1983, and since then, he has served in various leadership capacities, including medical director of the Trinity School of Radiologic Technology and chair of the Department of Radiology. At the MD Class of 2016 Commencement, he received a Dean's Special Recognition Award for Outstanding Volunteer Faculty.

Alan Lindemann, MD '77, has started seeing patients at the Jacobson Memorial Hospital Care Center, Elgin, N.Dak., and its clinics: the Glen Ullin Family Medical Clinic and the Elgin Community Clinic. A native of Valley City, N.Dak., Lindemann is a board-certified obstetrician and conducted a private practice in Fargo, N.Dak., delivering an estimated 6,000 babies. During the last ten years, he has been in family practice, most recently at Pembina County Memorial Hospital in Cavalier, N.Dak.. In 2012, he was named as North Dakota's Rural Health Care Provider of the Year.

Dennis Bruneau, FNP '72, is now at North Lake Health Clinic in Lakeview, Ore. Bruneau is a native of Wisconsin and received his interest in becoming a PA from his military medical experience as a Special Forces medic. He has worked in rural areas in North Dakota, South Dakota, Alaska, Washington, and Oregon. He currently maintains a faculty position at the University of Washington School of Medicine Medex Program.

Hubert Seiler, BS Med '70, has announced his upcoming retirement from the Heart of America Johnson Clinic in Rugby, N.Dak. Seiler has set October 28, 2016, as his final day to see patients. By the time he retires, he will have practiced in the community for over 44 years. Seiler plans to stay in Rugby as well as travel and volunteer for the organizations he is currently involved in.

Got news? We want to hear it!

Please send your news items for the next issue of **North Dakota Medicine** to Kristen Peterson: kristen.peterson@med.und.edu or call 701.777.4305.



Master of Physician Assistant Studies Class of 2016

Pictured on robot: Amber Kirtley- Perez.

Front Row (from left): Grant Coauette, Patrick Riley, Derryk Allen, Jason Smith, Suzanne Zayan, Caitlyn Cameron, Cory Heiser, Kevin Davis, Lacey Jandrin, Franchesca Cook, Brittany Anundson, and Jennifer Polniak.

Back Row: Kevin Conboy, Matthew Coy, Brett Johnson, Jesse Fladmark, Chad Briley, Cory Jacobs, Stephanie Jacobs Uselman, Andrew Bader, Whitney Thompson, Eric Sadler, Allison Barnett, Joe Webster, Kristina Sandstedt, Henry Woida, Amber Johnson, Pamela Rangen, Lane Lindeman, Adria Ridl, David (Ryan) Kesterson, and Sarah Viscarra.



Bachelor of Science in Athletic Training Class of 2016

Front Row (from left): Brooke Jensen, Kiah Hildebrand, Troy Engen, Sarah Langlee, Stephanie Heumiller, and Marissa Ang.

Back Row: Jordan Myers, Spencer McCormick, Brandon Johnson, Jake Howard, Darci Wendeborn, Jack Gasperlin, and Kara Wetzel.

Earl J. Dunnigan, MD '83, age 58, died April 8, 2016, at St. Mary's Hospital in Rochester, Minn., surrounded by family and friends. Earl Dunnigan was born in Detroit, Mich., on February 27, 1958, the eldest son of Dr. Ralph J. and Bernadette Dunnigan. He was raised in Bismarck, N.Dak., and graduated from St. Mary's Central High School. He attended UND as an undergraduate and the UND School of Medicine and Health Sciences, receiving his medical degree in 1983. He completed his residency training in internal medicine through the UND SMHS, then fellowship training in nephrology at the University of Texas, Galveston. He then became affiliated with St. Alexius Medical Center, Bismarck, and served this community as a board-certified nephrologist until his illness forced his retirement in 2012. As a physician in Bismarck, Earl helped countless people in the region, with his untiring dedication and brilliance. Many of his patients still speak so fondly of him today. His long illness, which began while he was in medical school, ultimately made him an extremely compassionate and caring provider of healthcare. He was a strong champion of medical education and dedicated countless hours teaching the intricacies of modern medicine to medical students and residents. He was an incredible physician and diagnostician, living up to the legacy of his father. In 2005, Earl met his perfect match, JoAnn Burtts. The two were married in 2009. Earl cherished his wife dearly. She bravely stood by his side and supported him through his very difficult medical challenges. The two were oftentimes described by the special kind of love they shared. They were each other's light no matter how dark the day. All those who followed their story are forever changed and inspired. Earl was very much an outdoorsman and loved the hunt of large game as well as waterfowl and upland game. He loved to fish and spent countless hours tying thousands of flies, and ultimately mastered the challenges of fly fishing in the clear waters of Montana. He grew up hunting on and enjoying Lake Audubon with family and friends. He especially loved hunting and fishing with his son Matthew. He was a voracious reader, talented woodworker, and an amazing cook. He loved to prepare wild game feasts for his family and friends. Earl's medical journey forever changed and inspired many by his fortitude and acceptance. Earl never surrendered to hopelessness, always giving inspiration, and trusting in God's ultimate plan.


Freeman "Doc" Percival Fountain, BS Med '49, passed away on February 29, 2016, at Cottonwood Inn Rehabilitation and Extended Care Center in Durango, Colo. He was born April 16, 1921, in Hawley, Minn., to Percival Freeman Fountain and Chloe Mae (Ritteman) Fountain. While he was a child during the Depression, he said he didn't really notice as there always seemed to be adequate food and clothing. Freeman went to high school and college at Moorhead State Teachers College. He was class president his senior year of college and was conference champion in the 220-yard dash and a member of the one-half mile relay conference champions (conference record time). This relay team of four men all went on to serve overseas during

WW II and were reunited 50 years later. After the reunion, they remained in close contact, and their friendship was very important to Freeman. Freeman enlisted in the Navy Reserves in 1942. He went to Stanford University to study physical therapy and graduated in 1943. During WW II, he went into active duty as a Fleet Marine corpsman and was sent to Saipan, where he joined the Second Marine Division. They were sent to Nagasaki, Japan, about six weeks after the atomic bombing. They set up quarters close to where the bomb hit at what had been the Mitsubishi shipyard. The buildings there had been vaporized and only the girders remained. The girders were bent toward the sea, and Freeman recalled that they looked like corn stalks after a windstorm. After the war, he used the GI Bill to go to medical school first at the University of North Dakota then at the University of Colorado. He graduated from medical school June 10, 1951, and got married to Jerrlyn (Jeri) Jean McGraw the very same day in Denver, Colo. They had three children spaced two years apart and all with first names starting with "D": Diana, David, and Daniel. Freeman did his internship at Fitzsimmons Army Hospital in Denver. While at Fitzsimmons, he was an Army medical officer during the Korean War. He did his physical medicine and rehabilitation residency at the University of Colorado; then, he and his family started a series of moves as he pursued his career in medicine. They moved to Louisville, Ky., in 1956, where he was an assistant professor at the University of Louisville School of Medicine. The family returned to Denver in 1958, where Freeman was an assistant professor at the Colorado University School of Medicine. In 1960, they moved to Albuquerque, N.Mex., where Freeman was chief of physical medicine at Lovelace Clinic and medical director of the Bataan Rehab Center. Then, in 1966, they moved to Phoenix, Ariz., where Freeman was the Residency Program training director in Physical Medicine and Rehabilitation, Institute of Rehabilitation Medicine, Good Samaritan Hospital. In 1970, Freeman went into private practice in physical medicine and rehabilitation. He worked at offices in Scottsdale and Sun City, Ariz., until his retirement in 1994. Freeman continued to serve in the Naval Reserve until he retired in 1981 at the rank of captain, Navy Medical Corps. He wrote many articles that were published in professional journals. He was elected and served four years as surgeon general of the Military Order of the World Wars and wrote numerous general-interest articles for the *Officer Review*. Freeman was musically inclined and played drums in the marching bands at Moorhead State College and Stanford University. He sang in many church choirs and in barbershop quartets and choirs, even briefly singing with the Durango Barbershoppers when he was over 90 years old. He always had an electric organ in the house and enjoyed playing old favorites. Through the years, he demonstrated great talents in woodworking, lapidary work, and silversmithing and jewelry making. He enjoyed fishing and spent much time fishing from the dock at the family cabin at Electra Lake. He was an expert at filleting fish (a talent he learned as a boy in Minnesota). He was a hunter and had many of his trophies, including a black bear and a mountain lion, hanging in his house, which his wife, Jeri,

loved to decorate for the holidays. He and Jeri loved to travel. On a trip to Japan almost 40 years after the war, Freeman was gratified to see the wonderful recovery that had occurred there; attractive buildings replaced the devastated buildings. Other travel highlights were the trips to Washington, D.C., that he and Jeri took with their beloved grandchildren and a memorable trip he made with his family to Kodiak Island in Alaska during his two-week active duty in the Navy. He loved the salmon fishing there and catching king crab. Freeman loved his pets. As a child, he had a crow for a pet (one that he rescued). It rode on his shoulder. Throughout his life, he almost always had a dog. A dog trainer once told him that he was "acting like a littermate," which, while not meant as a compliment, was taken as one by Freeman. He loved to tell stories and jokes and found great enjoyment in the retelling of them. Freeman and Jeri started spending summers in Durango to get out of the Arizona heat and to spend time with family. A few years after Jeri's death, Freeman made a final move to Durango. He was a member of the Lutheran Church, and his faith was an important part of his life.

Harris Hanson, BS Med '49, died on April 1, 2016. On December 15, 1923, Harris D. Hanson was born in Grand Forks, N.Dak., to Della and Henry Hanson. He was raised in Walhalla, N.Dak. Life was good for him until Black Tuesday. On Black Tuesday, the stock market crashed and his grandfather had a stroke and died. The very next day, his father died. The family businesses, the general store, gas station, and bank, had runs on them, and then people stopped repaying their credit. Bankruptcy followed. This loss of family and income shaped his life deeply. With no income and no close male role models in his life, mischievousness got the best of him. He was invited to attend St. John's Prep in Collegeville, Minn., on scholarship and then stayed for his college degree at St. John's University in Collegeville. Harris, or Hans as he was called by his friends, excelled and enjoyed his stay at St. John's and always felt a deep sense of gratitude toward his alma mater. In 1943, he enlisted in the U.S. Navy Air Corps and trained as an aviation cadet. As a result, flying became one of his lifelong passions. Luckily, timing was on his side and WW II ended just before he was called up. Hans decided to go to medical school after WW II. He started his medical education at the University of North Dakota and finished at Loyola University Medical School in Chicago. While finishing up his internship at Milwaukee County Hospital, he met the love of his life over a spinal tap. The lovely nurse, Mary Elizabeth Purtell, RN, caught his eye, and he pursued her intently. They married soon after that tap! The first of nine children was born a year later, and eight more followed in fairly quick succession. Hanson served the Helena and surrounding communities for 40-plus years as an orthopedic surgeon and on various positions on the boards at St. Peter's Hospital and Valley Bank. Hanson valued family, work, and community, and he served them all well.

Marci Purpur-Hecht, 54, of Grand Forks, N.Dak., passed away Saturday, May 14, at home with her family beside her. Marci Lorraine Purpur was born October 16, 1961, the daughter of Clifford and Mary (Schmid) Purpur in Grand Forks. She attended school in Grand Forks, graduating from Central High School. Marci was married to John Bemis in 1983 and had two children. Marci then went on to marry the love of her life, Bruce Hecht. Marci worked at the Rehabilitation Hospital in the Physical Therapy Department for two years before starting her 35-year career at the UND School of Medicine and Health Sciences, where she was a dedicated administrative secretary. Marci was a strong, feisty nurturer who left her family too soon. She loved being around her family and friends. Marci cherished her family, enjoyed fishing, cooking, and caring for the family dogs.

For Mother's Day, the *Grand Forks Herald* published a front-page story about Marci, "Love repaid: Mother's strength an example to children during illness." You can read the story at <http://goo.gl/SmyB1t>. 



Master of Occupational Therapy Class of 2016

Front Row (from left): Haley Larson, Alyssa Briggs, Melissa Hoffman, Stephanie Carlson, Lauren Herbert, Suzanne Vetter, Rachel Gromek, and Kamela Kelsch.

Row 2: Whitney Wilhelmi, Breanna Coleman, Jordan Adolf, Kirsten Marschke, Erin Haugen, Annemarie Assel, Jessica Triller, and Kayla Oates.

Row 3: Katie Kruger, Hanna Stevenson, Brooke Johnson, Emily Proctor, Morgan Voss, Amber Brown, Corey Lof, and Caitlin Brown.

Row 4: Kaci Miller, Ashley Waller, Chelsea deBruto, Hana Mattern, Katrina Kotta, Jana Carroll, Alyssa Kostreba, and Taylor LaVoi.

Row 5: Emily Hermanson, Molly Schmitz, Anna Peinovich, Nicholle Clouse, and Alison Laska.

Row 6: Grant Mitchell and Kyle Nelson.

Thank you to our thoughtful donors who recently gave gifts or made pledges.

The estate of Janet Marwin, wife of Richard Marwin, inaugural chair of the former Department of Microbiology and Immunology (1948–1962), has established a fund that will provide scholarships for students in the Department of Biomedical Sciences. Among other honors, Dr. Marwin was awarded the long-standing UND SMHS Faculty Portrait Award in 1983.

Tom Magill, MD '90, and Sarah McCullough, MD '98, of Bismarck, N.Dak., continue to support the Drs. Sarah McCullough and Thomas Magill Endowment, which will provide scholarships for fourth-year medical students who have matched with an emergency medicine residency, with preference given to students with the highest class ranking. Drs. Magill and McCullough worked as emergency medicine physicians at CHI St. Alexius Health in Bismarck until recently becoming locum tenens physicians at Altru Health System in Grand Forks, N.Dak.

Stephen, MD '78, and Mae Tinguely of Fargo, N.Dak., have established the Dr. Stephen and Mae Tinguely Scholarship Endowment, which will provide scholarships to medical, public health, physician assistant, occupational therapy, physical therapy, or medical laboratory science students who are enrolled in a federally recognized American Indian tribe. Preference is given to graduates of a North Dakota high school and to those who plan to practice in North Dakota. Dr. Tinguely served as chair of the SMHS Department of Pediatrics for many years before recently becoming Assistant Dean for Medical Accreditation and Chief Medical Accreditation Officer.

JLG Architects in Grand Forks, N.Dak., has established the JLG Architects SMHS Scholarship Endowment, which will provide scholarships to medical, graduate, and health sciences students. JLG Architects designed the new UND School of Medicine and Health Sciences building as well as other buildings on the UND campus.

Allison, BS Ed '58, and Bud Gentle of San Antonio, Texas, continue to support the Gertrude Damman-Allison Gentle Medical Education Endowment, which provides scholarships to medical students. Allison, a native of Mayville, N.Dak., named the endowment in honor of her mother.

Obermiller Nelson Engineering Inc. of Fargo, N.Dak., has established the Obermiller Nelson Engineering Inc. Scholarship Endowment, which will provide scholarships to medical students. ONE worked on the new UND School of Medicine and Health Sciences building.

Donald, BS Med '61, and Blanche Person of San Antonio, Texas, continue to support the Dr. Donald and Blanche Person Scholarship Endowment, which provides scholarships to medical students. Dr. Person worked as medical director and senior scientist with the U.S. Army from 1990 to 2008. He is now retired. The Persons have also supported first-year medical students through the Adopt-a-Med-Student Program for all five years the program has existed.

Sandy Zahradka and Bill Mann of Birmingham, Ala., continue to support the Buck Zahradka, MD, Memorial Scholarship Endowment, established in memory of Sandy's brother Buckley who passed away 10 months after graduating from UND's medical school in 1997.

For information on how best to structure your bequest or gift to benefit the School of Medicine and Health Sciences, please contact:



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**UND ALUMNI ASSOCIATION
FOUNDATION**



Doctor of Physical Therapy Class of 2016

- Front Row: (from left)** Corissa Kruse, Brittany Herbst, Sierra Heeren, Lisa Grandpre, Jennifer Ramsay, Kayla Selinger, Lisa Monson, Mary Loken, Brittany Johnson, Sierra Maucort, Anna Jung, Rachel Pederson, and Katie Anderson.
- Row 2:** Ty Bommersbach, Laura Nelson, Kelli Bader, Lyndsey Wunderlich, Anthony Charbonneau, Amy Harmon, Toni Linneman, Brittany Wirth, Betsy Richards, Paige Torgerson, Talya Tysver, Holly Koch, and Erica Hjelmstad.
- Row 3:** Mark Laraway, Kelsey Meyer, Kayla Andreasen, Heidi Hansen, Natalie Gleason, Brooke VandenBergh, Brie Dahl, Nicole Jefferson, Ashley Sebelius, Braidy Solie, Megan McCormick, Jamie Flint, Catherine Heggie, and Megan Volden.
- Row 4:** Joel Kramer, Daniel Vilaubi, Eric Nefstead, Alexander Barney, Julia Nelson, Mike Brooks, Brandon Moeller, Brett Morlock, Cory Sailer, Adam Meidinger, Joe Taylor, and Eric Estes.



Master of Public Health Class of 2016

From left: Naa Dede Hesse, Jessica Orth, Kalee Werner, Gaurav Mehta, and Gisele Dias de Oliveria. Not pictured: Laura Ahmed, Kasi Eisenzimmer, Andrew Herting, and Chelsea Tufts.



Department of Medical Laboratory Science Master of Science, Bachelor of Science, and Certificate Graduates for August 2015, December 2015, and May 2016

Students enrolled in the BS degree or MLS certificate program are required to complete an on-campus summer session immediately before completing a two-semester internship in their final year of academic study. This summer session (also known as Summer Practicum) is an intensive 40-hour-per-week experience that consists of 13 credits of academic study. In the photo are the students who completed the 2015 Summer Practicum.

August 2015 Graduate

Bachelor of Science: Jennifer Main.

December 2015 Graduates

Bachelor of Science: Saud Ali and Ross Baumann.

Master of Science: Jennifer Anders, Jessica Hoernemann, Troy Krieger, Joyce Moore, Joshua Pechtel, and William Scott.

May 2016 Graduates

Bachelor of Science: Najib Abdullahi, Ali Al Abandi, Yousif Al Mubarak, Kayla Bancroft, Kristen Beecroft, Ryan Carlson, Tara Cota, Bethany Driscoll, Molly Driscoll, Katie Findlay, Megan Fugate, Thomas Gander, Stephanie Gellner, Heather Gilbert, Miranda Herrmann, Keifer Hinrichs, Sessily Kloepfel, Jon Knutson, Katelyn Kucera, Ashley Lurfald, Erin Liepold, Bailey Lunday, Hassan Mohamed, Yoon-Jae Nam, Shannon Newberg, Mary Ochs, Emily Ridgway, Jaylen Schlenvogt, Kristin Settergen, Katelin Sirjord, John Strande, Chao Thao, Christopher Trejo, and Lisa Wolf.

Certificate Medical Laboratory Science: Abdirizak Abdi, Girma Ayana, Olivia Baer, Chelsea Borwege, Tessa Burrow, Erin Bushnell, Claire Cervinski, Samantha Christiansen, Joseph Coyle, Stephanie Degen, Holly Dickerson, Elauteria Earnhardt, Megan Finn, Ashley Follmuth, Kendra Goodroad, Maria Howard, Erin Hutzell, Jarerat Jinawanit, Sarah Joy, Kristopher Karn, Eliot Leathe, Tyler Makor, Evan Masterson, Sarah McGarvey, John McGowan, Lauren McLean, Jacob Moss, John Niciforos, Evalyne Njeri, Alyssa Pizzoferrato, Sovanna Ponn, Jordan Reetz, Amy Rinke, Jennifer Rogers, Alyssa Schelinske, Claire Schmitz, Heather Schneider, Jacob Shurts, Katie Sides, Shelby Sorenson, Kelsey Steffen, Haylea Stockert, Aaron Strassburg, Lexy Teerink, Alexandra Traufler, Aly Vang, Carly Weisjohn, and Tyler Wieber.

Master of Science: Kari Berntson, Rachel Engel, Jennifer Keating, Bethany Land, Erica Pape, and Sara Steffen.



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*"We shape our buildings,
and afterwards our buildings shape us."*

- Winston Churchill

Save the date for the
GRAND OPENING
celebration of the new
UND School of Medicine and
Health Sciences building

Friday, October 14, 2016
UND Homecoming Week
1:00 PM
1301 N. Columbia Rd.
Grand Forks, ND

Tours of the new building will follow
the program and ceremonial ribbon cutting.
Details for a black-tie dinner that evening will follow.

