Preparing students to become competent, caring, ethical health professionals and citizens.
New experience requirements implemented: Your help needed

Students now entering the pharmacy program at North Dakota State University will be getting a lot more experience in real world pharmacies during their first years. The Accreditation Council for Pharmacy Education now requires pharmacy students across the country to complete 300 hours of Introductory Pharmacy Practice Experiences (IPPE) before starting their fourth year Advanced Pharmacy Practice Experiences (APPE).

To help students with this requirement, the Department of Pharmacy Practice is looking for alumni willing to host students in their pharmacy practice settings. These new requirements are in addition to the existing pharmacy course work. Fourth-year students will continue to participate in eight five-week APPE rotations as they have in the past.

The new emphasis on introductory experiences is an effort of the Accreditation Council to standardize the wide variety of introductory experiences found in the curriculums of colleges of pharmacy across the country.

“They want to make sure they are standardizing the level of education so that pharmacists leaving those colleges will all be trained in a certain way,” said Wanda Roden, APPE coordinator. The main activities students will participate in are a two-week experience in a hospital pharmacy after their first year and a three-week experience in a community pharmacy after their second year. Other tasks will include shadowing experiences with preceptors during spring semesters of the first and second year. Rebecca Focken, coordinator of IPPE, also hopes to partner with community pharmacies again for the students’ second year. Other tasks will include shadowing experiences with preceptors during spring semesters of the first and second year. Rebecca Focken, coordinator of IPPE, also hopes to partner with community pharmacies again for the students’ third year when they will focus on public health and community outreach activities.

During the past two years, students spent an average of 28 hours per year in an IPPE pharmacy experience.

“The goal is for students to get a variety of experiences in a variety of pharmacy settings before they get to the last year of pharmacy school,” Focken said.

Although most students already work as pharmacy interns, they may only have experience in one type of pharmacy practice setting.

“The IPPE and APPE are laying a foundation for them to understand what their skills and passions are to be able to decide on a career that fits them as a person,” Roden said.

The Department of Pharmacy Practice/Experiential Education Committee is working with a hospital advisory committee to develop objectives and activities for the first-year students during their two-week hospital rotations at the end of the spring semester. A community pharmacy advisory committee also is being formed to establish objectives for student experiences at the end of their second year.

With 85 new students every year, finding pharmacy practice sites for them is a challenge. Focken and Roden plan to mail request forms to pharmacies and APPE preceptors around the region. As a result of this newsletter, they also hope to hear from alumni reading this newsletter who are interested in hosting NDSU students in their pharmacy practice settings.

The new requirements at a glance

- 100 hours hospital/health system pharmacy experience including shadowing and two-week experience in the summer following first professional year,
- + 140 hours community pharmacy experience including shadowing and three-week experience in the summer following second professional year,
- + 60 hours public health and community outreach experiences during the third professional year,
- = 300 hours of introductory pharmacy practice experiences.

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I hope this issue of our alumni newsletter finds you in good spirits and enjoying the New Year.

As described in the last issue of our newsletter, we launched our new Sudro Society annual giving program this fall. Sudro Society replaces the previous Dakota 100 Club. The initial response to Sudro Society has been very positive with many alumni showing their support by becoming new members. I want to thank all of you who have joined Sudro Society and extend our appreciation and gratitude to you for your generosity and strong support for our people and programs. Your strong support of our pharmacy program is a great encouragement to me as dean and to our entire college.

In September 2008 our college was awarded $2 million from the state of North Dakota to establish a Center of Excellence (Center for Biopharmaceutical Research and Production) to develop new target vaccines and other biopharmaceuticals for commercialization with local private sector businesses. You will hear more about our new Center of Excellence in the next issue of our alumni newsletter.

We also have been working with Dr. Terry Dwelle, our state health officer, in developing a new curriculum for a Master of Public Health (M.P.H.) degree program. This new graduate program will be unique in creating discipline-specific tracks for medicine, nursing and pharmacy in training practicing health professionals with the skills to deliver meaningful public health at the point of care with patients (applied public health). We also have been working with an architect to develop plans for future space needs based on our recently developed strategic plan. You will be hearing more about all these issues in the future as they unfold.

On behalf of our college, I wish you a happy, healthy and prosperous New Year!

I hope you enjoy our newsletter. If you have comments, stories to share or suggestions for future issues, please let us know. For more information about our college, its people and programs, visit our Web site at www.ndsu.edu/Pharmacy.

Charles D. Peterson, dean
Phone: (701) 231-7609
Fax: (701) 231-7606
E-mail: Charles.Peterson@ndsu.edu
Career Fair 2008: opportunity knocks

For one day, the entrance to the FargoDome was a portal to the future. On Sept. 18, the College of Pharmacy, Nursing, and Allied Sciences presented “Career Fair 2008,” a glimpse into the possibilities that lie ahead for students.

Many students apparently couldn’t wait. Perhaps as many as 40 people were in line when the doors opened at 10 a.m. “I’m very curious. Let’s say that,” explained David Anderson, a third-year student in NDSU’s professional pharmacy program from Kindred, N.D. “The Career Fair is a great place for students to network, learn about the employment process and see what others have to offer.”

The event, which is one of the most highly regarded of its kind, drew about 200 representatives of 65 employers from across the country. An estimated 1,000 students and parents were on hand to enthusiastically ask questions and make important connections.

“Every year, we see students seeking employment and, at the same time, we have employers say, ‘Where are the students looking for jobs?’ This event brings students and employers together to have that conversation,” said Charles Peterson, dean of pharmacy, nursing, and allied sciences. “It’s a nice marriage of allowing students to get career information and also job prospects that might lead to permanent employment.”

The event is a showcase for everyone involved, according to Michaela Ostendorf, a third-year student in the pharmacy program from Fergus Falls, Minn., who organized the booth for the pharmacy program. “It’s been a great recruiting tool, and we’ll be back as long as they have it.”

Pam Rheingans, a human resources representative for Mayo Clinic, Rochester, Minn., said, “The programs at NDSU are top quality and this career fair is always a wonderful event for us. It’s been a great recruiting tool, and we’ll be back as long as they have it.”

For the students, the career fair allows them to wander among the booths, shake hands, gather business cards, improve their interpersonal communication skills and explore career choices.

Photograph courtesy of Fargo Forum.

First-year Pharm.D. students participate in White Coat Ceremony

From Fargo to Tunisia, students from the area and around the globe participated in the annual White Coat Ceremony, which is performed to welcome them to the NDSU pharmacy program. The following list includes the entire class of 2012 along with their hometowns.

Rachel M. Aspinwall, Wabash, N.D.
Amber R. Alstad, Devils Lake, N.D.
Jessica N. Amsden, Harwood, N.D.
Adam M. Badlund, Moorhead, Minn.
Chad J. Baldwin, Fargo, N.D.
Margaret E. Berman, Edgar, Minn.
Shai N. Roe, Fargo, N.D.
Krissten Bomser, Tea, S.D.
Courtney J. Boucher, Worthington, Minn.
Kodi L. Brown (Klatt), Dickinson, N.D.
Jessica J. Bubul, Center, N.D.
Carlin Carter, Maple Lake, Minn.
Tara J. Christiansen, Remer, Minn.
Matthew C. Clines, Bismarck, N.D.
Allan J. Diemuth, International Falls, Minn.
Scott B. Dobrey, White Bear Lake, Minn.
Nathanal T. Ehle, Wahpeton, N.D.
Eric M. Fuentes, Fargo, N.D.
Sarah L. Gangel, Beachard, Minn.
Colby J. Geisler, Bismarck, N.D.
Jared H. Goeke, Mahaska, Iowa.
Erika M. Haglund, DeForest, Wis.
Johanna M. Hagen, Portland, N.D.
Matthew C. Halberg, Kindred, N.D.
Laura B. Hilde, Moorhead, Minn.
Alessia M. Hook, Fargo, N.D.
Tina M. Hotwker, Wayzata, Minn.
Amy D. Hutfleck, Morgan, Minn.
Jason D. Hulse, Sidney, Minn.
Legan J. Hollen, St. Cloud, Minn.
Ryan J. Howeswar, Hamannford, N.D.
M.M. Hoy, Moorhead, Minn.
Rebecca M. Jackson, Coldwater, Mich.
Brittania L. Johnson, Warren, Minn.
Amanda L. Jorgenson, Cottage Grove, Minn.
Susan C. Kalonowski, Lincoln, N.D.
Nathan F. Kueker, Bismarck, N.D.
Adele Kovic, Princeton, Bismarck, Minn.
Kory D. Kowalski, Moorhead, Minn.
Craig D. Landy, Remer, Minn.
Jason R. Lind, Cambridge, Minn.
Steven D. Maderscheid, Dickinson, N.D.
Jeseca A. McChliss, Fargo, N.D.
Michelle R. McKay, Fargo, N.D.
Adell R. Mengen, Denver, Colo.
Anaas M. Mengen, Fort Collins, Colo.
Katie A. Miller, Bismarck, N.D.
Melinda L. Miller, Bagley, Minn.
Michael A. Miller, Bismarck, N.D.
Sammie H. Ngyoue, Moorhead, Minn.
Daniel L. Nosek, Valley City, N.D.
Apaydele A. Obutujako, Lagos, Nigeria
Brent J. Olson, Fargo, N.D.
Kaya J. Ottenstein, Kindred, N.D.
Laura J. Penner, Fargo, N.D.
David T. Peterson, Jamestown, N.D.
Natalia J. Perry, Fargo, N.D.
Katelynne E. Prince, Stanton, N.D.
Kayla L. Rachel, Jamestown, N.D.
Scott E. Redick, Dilworth, Minn.
Andrew W. Schaaf, Mandan, N.D.
Lance M. Schmied, Willmar, Minn.
Lee D. Schwan, Devils Lake, N.D.
Samantha J. Seelig, Hudson, N.D.
Steven J. Semington, Williston, N.D.
Tami R. Sherr, Moorhead, Minn.
Chelsea A. Sibberlen, Fargo, N.D.
Robert A. Sieg, Oklee, Minn.
Vince B. Strittner, Hancock, Minn.
Aron Ben Talhar, Tunica, Tunica
Robyn J. Svazene, Millville, Minn.
David E. Tilly, East Grand Forks, N.D.
Nicole L. Toomey, Foley, Minn.
Matthew D. Troyer, Fargo, N.D.
Chantal A. Vance, Ray, N.D.
Jena Wardenbroecke, Marshall, Minn.
Amanda M. Vojcikovits, Bismarck, N.D.
Ryan J. Wall, Maple Grove, Minn.
Julie M. Wendt, Maple Grove, Minn.
Anthony W Wieland, Cannonel, N.D.
Jayme A. Whel, Zap, N.D.
Jordan A. Wolf, Fargo, N.D.
Carin M. Winke, Fargo, N.D.
Sarah A. Wyffels, Alexandria, Minn.
Andrew L. Zunak, Columbus Heights, Minn.

“The programs at NDSU are top quality and this career fair is always a wonderful event for us. It’s been a great recruiting tool, and we’ll be back as long as they have it.”

Photograph courtesy of Fargo Forum.

“The programs at NDSU are top quality and this career fair is always a wonderful event for us. It’s been a great recruiting tool, and we’ll be back as long as they have it.”

Pam Rheingans, Mayo Clinic

“This is a real one-stop shop for everything that is out there,” said Nick Rogers, a fourth-year student in the NDSU pharmacy professional program from Grand Forks, N.D. “It’s always good to lay the foundation for years to come.”

The event is a showcase for everyone involved, according to Michaela Ostendorf, a third-year student in the pharmacy professional program from Bismarck, N.D. “It’s a chance for students, employers and the university to stand out. ‘NDSU has great students in its programs, and I think it’s wonderful for NDSU to show these employers that we are a quality school, with a quality education,” Ostendorf said.

Smiles and friendly conversations were everywhere in the FargoDome concourse, a sure sign that Career Fair 2008 had again lived up to its billing and accomplished its goals.

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Pam Rheingans, Mayo Clinic
New memorial scholarship provides opportunity, creates lasting memories

The moment will be forever etched in Myna Peterson’s memory. A student’s mother hugged her and said, “You’ve changed my son’s life.”

That powerful moment, accompanied with tears of pride and satisfaction, came shortly after the College of Pharmacy, Nursing, and Allied Sciences awards banquet on Sept. 18. Peterson had earlier presented the first annual Alan Peterson Memorial Scholarship to Jesse Rue, a student in the final year of the six-year Pharm.D. program.

“That was very humbling. I didn’t realize the depth of what the scholarship would mean,” Myna Peterson said of her conversation with Rue and his mother, Kathleen. “All I could think about was how proud Alan would have been of this young man, how proud he would have been to help another student attain their goal.”

The scholarship was established to honor Alan Peterson, a 1970 pharmacy graduate, who died in September 2007. Born in Edgeley, N.D., and raised in Steele, N.D., Peterson enjoyed a 33-year career as a pharmacist for Walgreens in Illinois, and public policy. Rue says there is unlimited potential in the pharmacy profession, but the areas of particular interest to him are medication therapy management/disease state management, pharmacokinetics from the State University of New York at Buffalo. She became the first female promoted to full professor in the College of Pharmacy at the University of Iowa, Iowa City. She led international efforts to bring together women pharmacists in order to assure the inclusion of gender-related health issues in pharmacy curricula. She was a charter member on the advisory committee that reviews the research strategy of the National Institutes of Health’s Office of Research on Women’s Health, and she served on the board of directors of the Society for the Advancement of Women’s Health Research. She co-edited four books and wrote 50 journal articles. She was inducted into the Iowa Women’s Hall of Fame in 1999.

For Rue, the new scholarship means opportunity. “It is very humbling to have a complete stranger take such an interest in your current well-being and future success. What I have found to be most significant as time passes, however, is the standard it sets – it reminds me of the responsibility that I have professionally to serve patients and society to my utmost,” said Charles Peterson, dean of the College of Pharmacy, Nursing, and Allied Sciences. “It honors one of our own alumna who went off and had a major impact on women’s health, not just in the country but internationally.”

Berg earned a doctor of pharmacy degree from the University of Kentucky and completed a postdoctoral fellowship in clinical pharmacokinetics from the State University of New York at Buffalo. She became the first female promoted to full professor in the College of Pharmacy at the University of Iowa, Iowa City. She led international efforts to bring together women pharmacists in order to assure the inclusion of gender-related health issues in pharmacy curricula. She was a charter member on the advisory committee that reviews the research strategy of the National Institutes of Health’s Office of Research on Women’s Health, and she served on the board of directors of the Society for the Advancement of Women’s Health Research. She co-edited four books and wrote 50 journal articles. She was inducted into the Iowa Women’s Hall of Fame in 1999.

In 2000, Berg was an honored alumna at NDSU for Master’s Week for the College of Pharmacy.

This year’s two students to earn the Mary J. Berg Scholarship were third-year pharmacy students Maari Loy and Lindsay Huether. “This scholarship will clearly benefit my studies,” said Charles Peterson, dean of the College of Pharmacy, Nursing, and Allied Sciences. “It honors one of our own alumna who went off and had a major impact on women’s health, not just in the country but internationally.”

“Huether also appreciated the $13,750 scholarship. “It is such an honor to receive recognition for the hard work over the last few years,” she said.”

Mary J. Berg Auditorium dedicated in Sudro Hall

The College of Pharmacy, Nursing, and Allied Sciences dedicated the Mary Jaylene Berg Auditorium in Sudro Hall on Sept. 8. This is the fourth and final part of a more than $1.4 million estate gift given by Ordean Berg, BS ‘41, agricultural education, in memory of his daughter, Mary, BS ’74, pharmacy. Mary died Oct. 1, 2004. Ordean died a few months later in January 2005.

Ordean’s entire estate was given to the college to establish the Mary J. Berg Distinguished Professorship in Women’s Health, the Mary J. Berg Scholarship Fund for pharmacy students and the Mary J. Berg Faculty Award for Teaching Excellence. “It’s a tremendous benefit to students, faculty and staff,” said Charles Peterson, dean of the College of Pharmacy, Nursing, and Allied Sciences. “It honors one of our own alumna who went off and had a major impact on women’s health, not just in the country but internationally.”

For more information or questions, visit www.ndsu.edu/pharmacy or contact Sara Tanke, director of advancement, at sara.tanke@ndsu.edu or 701-231-6461.

Sponsored by the College of Pharmacy, Nursing, and Allied Sciences and the NDSU Alumnus Association.
A message from the advisory board

The Pharmacy National Advisory Board was established by the dean of the College of Pharmacy, Nursing, and Allied Sciences to assist, advise and support the college’s pharmacy programs. The board can have up to 20 members from various areas of pharmacist employment and a broad geographical representation of alumni. Members serve a three-year term with an option to extend for one additional three-year term.

In October, we bid farewell to John Friend (BS ’68) and Jayme Steig (PharmD ’92), and welcomed Terry Dahl (BS ’77), Kandy Matzak (BS ’79, MS ’82), and Jim Normark (BS ’72).

Under leadership of Brad Trom, the Advancement Committee transitioned the Dakota 100 Club to the Sudro Society. Financial support from this program will assist the dean in advancing pharmacy to remain one of the top programs in the nation. Sudro Society funds are used to enhance education of pharmacy students and provide them the opportunity to become competent, caring, ethical pharmacists and to continue the effort to re-engage our alumni and increase the number of friends. We encourage you to visit the college and see the exciting things that are happening.

The Accreditation Committee with John Wold as chair is reviewing the recent Accreditation Council for Pharmacy Education accreditation report and the college’s strategic plan. These documents will be the foundation of recommendations to improve the quality of education students receive and how the college will continue to exceed accreditation standards. One area being addressed is inter-professional training.

The Administration Committee with Kathy Szefert as chair has developed bylaws that provide the foundation for the board’s activities. Space needs of the program and expanding student education are areas the committee continues to discuss.

The board reviewed and endorsed the college’s new student conduct policy covering academic and professional misconduct.

Magarian still busy in pharmaceutical chemistry

Professor emeritus Edward O. Magarian may have officially retired from NDSU in 2000, but he hasn’t stopped working. He continued as a lecturer and co-taught several courses until spring of 2007. He runs a small pharmacy consulting business at http://www.webcableone.net/magarian. As the quality control consultant for 12 pharmacies in North Dakota, he sends those pharmacies blood samples for testing, analyzes their results, and works with those who have problems in their testing. Early next year he plans to offer Web site design services for people having weddings, anniversaries, birthdays or other special occasions. He also restores and damaged photos.

Magarian grew up in East St. Louis, Ill., and studied at the University of Kentucky College of Pharmacy. In 1973, his second accomplishment he shares with current dean of the college of pharmacy, nursing, and allied sciences, Charles Peterson. Together in the late 1980s and early 1990s, they obtained grant funds to develop a pharmaceutical care rotation for pharmacy students. During this rotation, students learned how to test on-site for total cholesterol, glucose and blood pressure. They also learned how to counsel patients concerning their test results and when it was appropriate to refer patients to their physicians. At the time, this type of rotation was rare for pharmacy colleges.

Magarian currently enjoys reading, meeting former students, working his consulting business and spending time with his wife, Sandy. They will celebrate their 50th wedding anniversary in June 2009.

Edward O. Magarian
Marilyn Hetland – Always a heart for helping

Long after college years have passed, names and faces of classmates, faculty and staff can grow a little fuzzy. However, for most former students, a handful of people remain vivid no matter how much time has elapsed. For many former students, that person is Marilyn Hetland.

Hetland was secretary to the chairs in the departments of Nursing, Pharmacy Practice and Pharmaceutical Sciences for the College of Pharmacy from 1980 to 1999. She did everything from type tests and order supplies to supervise work-study students and assign advisers. She also served on department and college committees. But what she is remembered for most is the special care and attention she gave to students.

One group of students she especially bonded with was the international students. “While I was there, I mostly worked with graduate students. At that time most of the graduate students were international students,” Hetland said. “Some came in and were very poor. I always sort of took care of them a little bit … one time I bought groceries for one of them. They would become pretty close with you,” Hetland said. “I helped them a lot with their transition in moving to the United States. Like just getting a driver’s license and letting them know they needed insurance. It’s the little things that we take for granted every day.”

Her kindness didn’t go unnoticed by the students. In 1994 she was recognized with the prestigious Mary Gunkelman Award. The award, which was established in 1987, recognizes the person who has made the most significant and unselfish contribution to creating a happy environment for the enjoyment of NDSU students.

The following year, she was inducted into the Tapestry of Diverse Talents for her efforts to promote multiculturalism. The Tapestry of Diverse Talents recognizes students, faculty, staff and alumni for the diversity and contributions they bring to NDSU.

“Helping people … that’s always been part of me,” she said. “I’ve always been compassionate. I love helping those who are in need.”

Hetland retired in 1999 at the request of her husband, Jim. “If he was going to retire, I was going to retire.” So they sold their home in Fargo and moved to Lake Crystal near Pelican Rapids, Minn.

Today the couple splits their time between Minnesota in the summer and Florida and Arizona in the winter.

Hetland enjoys spending her time with family, cooking, reading and occasionally meeting up with former bosses for lunch.

And of course, she still finds time to help others by volunteering at the Pelican Rapids food shelf. “Helping people … that’s always been part of me,” she said. “I’ve always been compassionate. I love helping those who are in need.”

Guo studies the reasons some cancer cells just won’t die

In the average adult, 50 billion to 70 billion cells die each day due to apoptosis, or programmed cell death. This cell suicide is triggered by our genes after a cell has replicated a certain number of times. But sometimes, the genes that trigger the cell death don’t work. Cells grow and divide out of control. In other words, without apoptosis, cells can develop into cancer.

Assistant professor Bin Guo studies apoptosis in order to better understand the mechanisms behind cell death, cancer and why some cancer cells respond to drugs while others don’t. In the past few years he’s been behind several breakthroughs in this research.

In one of Guo’s studies, he worked with the KLF6 gene in prostate cancer cells. KLF6 induces apoptosis by activating another gene, ATF3, which is responsible for killing prostate cells. Many prostate cancer cells have a mutation in the KLF6 gene that keeps it from activating the ATF3 gene.

Isolating the role of the KLF6 gene leads prostate cancer research and treatment in a new direction. For example, through gene therapy, doctors can introduce working KLF6 genes into prostate cancer cells to induce more apoptosis.

Guo’s study of the KLF6 gene was published in the prestigious “Journal of Biological Chemistry” on Oct. 31, 2008. The work was funded in part by a National Institutes of Health Centers of Biomedical Research Excellence grant and a National Institutes of Health Exploratory/Developmental grant.

Guo’s other major recent study focused on colon cancer response to a new class of chemotherapeutic agents, the histone deacetylase (HDAC) inhibitors.

In colon cancer, 90 percent of patients have a mutation in the adenomatous polyposis coli (APC) gene, which causes resistance to HDAC inhibitors. Guo wanted to know why some cancer cells don’t die when treated with HDAC inhibitors and to identify new strategies to overcome such resistance.

Nobody knows the mechanisms cancer cells use to resist these new drugs, Guo said. “This is the first time we’ve found that if there is a mutation in this gene, the cancer will be resistant.”

The culprit in resisting the new drugs is a protein aptly named survivin, which protects the cancer cells from cancer drugs. Survivin cannot be decreased if there is a mutation in the APC gene. Another drug, such as flavopiridal, must be used to decrease survivin so the cancer killing drugs will work. Guo is working on other new ways to decrease survivin for more effective treatment of colon cancer.

The APC study was published in the journal, “Cancer Research,” in 2006 and was funded by a National Institutes of Health Centers of Biomedical Research Excellence grant and the Eagles Art Ehrmann Cancer Fund.

Timelines

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<th>Year</th>
<th>Event</th>
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<tr>
<td>1992</td>
<td>earned B.S. cell biology</td>
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<tr>
<td>1999</td>
<td>earned Ph.D. pharmacology</td>
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<tr>
<td>1999</td>
<td>postdoctoral fellow at Burnham Institute, La Jolla, Calif.</td>
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<tr>
<td>2002</td>
<td>first patent granted</td>
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<tr>
<td>2003</td>
<td>began teaching at NDSU</td>
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<tr>
<td>2005</td>
<td>second patent granted</td>
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obituary

Le Roy Carter, 87, BS ’42, pharmacy, was a pharmacist for more than 50 years, owning Carter’s Drug Store on Broadway, Tozer’s Pharmacy and the Owl Drug Store. He was president and treasurer of the Washington State Pharmaceutical Association, and attended many national conferences and conventions. He received the prestigious “Bowl of Hygeia Award” for his professionalism and contributions to the pharmacy world. A registered pharmacist for more than 50 years, he retired in 1988. He lived in Everett, Wash.

Franklin D. Ellingson, 82, BS ’49, pharmacy, lived in Sun City, Ariz.

Harold E. Hovland, 93, BS ’38, pharmacy, owned Hovland Rexall Drug in Westhope, N.D., and worked for Center Owl Drug Store. He was president of the Washington State Pharmaceutical Association, and attended many national conferences and conventions. He received the prestigious “Bowl of Hygeia Award” for his professionalism and contributions to the pharmacy world. A registered pharmacist for more than 50 years, he retired in 1988. He lived in Everett, Wash.

Kerry P. “Pat” Rounds, 81, BS ’51, pharmacy, worked as a pharmacist at Reed Drug Store in Grand Rapids, Minn., before becoming director of pharmacy at Itasca Memorial Hospital. An avid ham/ amateur radio operator, he retired in 1990. He lived in Valparaiso, Ind.

Frank C. Rummel, 55, BS ’76, pharmacy, worked at Smith’s Rexall Drug in Everett, Wash. before becoming director of pharmacy at Brooke Army Medical Center, two tours at Walter Reed Army Medical Center, and the last as pharmacy consultant to the Surgeon General of the Army. After retirement from the military, he worked as a pharmaceutical consultant for Marion Merrell Dow Inc. in Washington, D.C. He lived in San Antonio, Texas.

Arna M. Vinje, 76, BS ’60, pharmacy, worked 16 years of his career as the director of pharmacy for St. Francis Hospital in Shakopee, Minn. He lived in Bloomington, Minn.

NDSU nanoparticle research appears in Review of Ophthalmology


The article by senior editor Christopher Kent notes that cutting-edge work is being done in North Dakota, Oklahoma and Florida.

The pharmaceutical research of Mallik’s team includes attaching anti-cancer drugs to nanoparticles and targeting molecules so particles only enter cells in need of treatment.

Sylvester and Scott publish article on copayments

NDSU investigators published an article in the October 2008 issue of Journal of Managed Care Pharmacy. The article is titled, “Physicians’ Opinions About Responsibility for Patient Out-of-Pocket Costs and Formulary Prescribing in Two Midwestern States.”

Shamima Khan, former assistant professor of pharmacy practice, performed the research with Robert Sylvester, associate professor of pharmacy practice; David Scott, associate professor of pharmacy practice; and Bruce Pits, MonteCare Health System in Fargo.

Their study found that while physicians believed it was important to prescribe drugs that would minimize patients’ prescription copayments and total drug costs, they were often unaware of the details needed to do so. Making this information more available to physicians has the potential to increase prescribing of medications with lower copayments and to increase patient access to needed medications.

Leo Schermeister

Leo Schermeister, 84, was a long-time NDSU faculty member who taught an array of courses and did extensive research into the medicinal agents of native North Dakota plants. A World War II Army veteran, Schermeister grew up in Maywood, Ill. He earned his bachelor’s, master’s and doctoral degrees at the University of Illinois College of Pharmacy in Chicago. He joined NDSU’s faculty in 1955 and served until his retirement in 1987. While at NDSU, Schermeister supplied plant extracts to the National Cancer Institute for anticancer screening. In addition, he coordinated a drug abuse course for addiction counselors, and taught basic clinical allergy courses and a course on poisonous plants.

Miller and Dewey publish article on pharmacy

North Dakota State University investigators published an article in the November 2008 issue of Annals of Pharmacotherapy. The article is titled, “Economic Impact of a Pharmacy Resident in an Assisted Living Facility-Based Medication Therapy Management Program.”

Brendy Maack, BS ’04, PharmD ’06, and Todd Johnson of Lake Region Medical Center in Fergus Falls, Minn., conducted research with Donald Miller, professor and chair of pharmacy practice, and Mark Dewey, assistant professor of pharmacy practice.

Partially funded by a federal Geriatric Education grant, the research showed that a pharmacist in a postgraduate residency training program could improve care while saving money for assisted living facilities through a review of their residents’ medication profiles.
Daniel Friesner

**Areas of expertise:** health economics, applied econometrics and community economic development

**Previous experience:** Gonzaga University, Weber State University, University of Southern Indiana and Washington State University

**Publications:** He has published more than 40 peer-reviewed articles and more than 25 conference proceedings, technical reports and practitioner publications, primarily in the areas of efficiency analysis, outcomes assessment and the relationship between health care and regional economic development.

**Activities:** American Economic Association, Academy of Business Economics, Business and Health Administration Association and the Association for Institutional Thought

**NDSU objectives:** Teach courses in pharmacy management, economic outcomes assessment, pharmaceutical care and other rural and public health pharmacy courses as needed by the department.

**Publications:** She has a publication in the October 2008 issue of Annals of Pharmacotherapy.

**Activities:** American Pharmacists Association and American Society of Health-System Pharmacists

**NDSU objectives:** Provide students with classroom and clinical learning opportunities that will incorporate them as an integral part of the healthcare team.

**Former position:** The department.

**Contribute to the profession of pharmacy through relevant research and writing activities.**

**Work as a member of a multidisciplinary team to provide patients at her clinical practice site with comprehensive, patient-centered care, including drug information and education.**

**Anne Ottney**

**associate professor of pharmacy practice**

**Education:** Doctor of Pharmacy from the University of Wyoming

**Area of expertise:** anticoagulation, osteoporosis, women’s health and diabetes

**Previous experience:** One year of pharmacy residency training at a hospital in Missoula, Mont. She also taught at the University of Montana.

**Publications:** She has a publication in the October 2008 issue of Annals of Pharmacotherapy.

**Activities:** American Pharmacists Association and American Society of Health-System Pharmacists

**NDSU objectives:** Provide students with classroom and clinical learning opportunities that will incorporate them as an integral part of the healthcare team.

**Contribute to the profession of pharmacy through relevant research and writing activities.**

**Work as a member of a multidisciplinary team to provide patients at her clinical practice site with comprehensive, patient-centered care, including drug information and education.**

**Barb Welk**

**administrative secretary**

**Previous Experience:** She previously worked for the Office of TRiO Programs for 10 years and for the NDSU Department of Animal Science for eight months.

**Background:** She is originally from North Dakota and also has a part-time job as a coach enumerator for the National Association of the State Department of Agriculture. For five years, she has been a host in the Friendship Family Program in the Office of International Programs at NDSU.

**Hobbies:** She enjoys spending time with her three grown children and four grandchildren. Her newest grandchild, Elsie Beth, was born on May 29.

**Julie Roberts**

**administrative secretary**

**Education:** Moorhead Area Vocational Technical Institute

**Previous Experience:** She was previously an administrative secretary for two years in the Office of Research, Creative Activities and Technology Transfer. During the past 25 years, she has held various legal and administrative secretary positions.

**Background:** She was born and raised in Fargo and attended Stanley High School. She has lived in Nebraska, Iowa and southern Minnesota. In 2003, her husband was transferred to the NDSU Technology Incubator. She and her husband have 15-year-old twin boys.

**Hobbies:** Camping, hiking, golfing and watching her sons play tennis, swim, dive and play baseball.

**NDSU Objective:** She is eager to assume responsibility for the 2009 College of Pharmacy, Nursing, and Allied Sciences Career Fair and provide administrative assistance with the scholarship application and selection process.
Milo Haas, BS ’58, pharmacy, was inducted into the “Icons of Pharmacy” Hall at Oregon State University. During his 36-year career as a clinical pharmacist and pharmacy manager for various Providence Health System facilities, the Oregon Society of Health System Pharmacists twice named him as the Hospital Pharmacist of the Year. Haas was a specialist in hospice pain management and a contributing author for two books on pharmacy practice.

Dr. Del Nelson, BS ’58, pharmacy, has taken a part-time position at Southeast Medical Clinic in Ellendale and Oakes, N.D. He retired last year from HealthEast Health Care System in St. Paul, Minn., after working family practice for 42 years.

David Bernauer, BS ’97, pharmacy, honorary doctorate, ’00, received an honorary Doctor of Human Letters degree from Long Island University’s Arnold and Marie Schwartz College of Pharmacy and Health Sciences. Bernauer, the former chief executive officer of Walgreen Co., is a past chair of the National Association of Chain Drug Stores. He lives in Chicago.

Terry Irgens, BS ’59, MS ’75, pharmacy, is a retired Navy captain who was inducted into the Defense Logistics Agency Hall of Fame, Washington, D.C., for implementing medical supply management and contributing author for two books on pharmacy practice. He is the lead pharmacist at the Family Care Health System in St. Paul, Minn.

Arnold and Marie Schwartz College of Pharmacy and Health Sciences in conjunction with the American Chemical Society honoring Ghatta is a principal scientist for GlaxoSmithKline Respiratory Drug Discovery, King of Prussia, Pa. His personal achievements include being named one of the “Icons of Pharmacy” and being inducted into the Defense Supply Center, Philadelphia National Association of Chain Drug Stores.

Sara (Groth) Vang, BS ’90, pharmacy, is the lead pharmacist at the Family Medicine Residency Pharmacy in Grand Forks, N.D. She and her husband, Brad, and their three children live on the family farm near Hatton, N.D. (D)

Dr. Mark Szczenski, BS ’91, pharmacy, was promoted to captain in the U.S. Air Force, Columbus, Ohio. He was inducted into the “Icons of Pharmacy” Hall of Fame in conjunction with the American Chemical Society honoring Ghatta is a principal scientist for GlaxoSmithKline Respiratory Drug Discovery, King of Prussia, Pa.

Kelly Keaveny, BS ’87, pharmacy, and his wife, Deb, purchased Payneville Corner Drug in Payneville, Minn. The couple now owns eight drug stores in central Minnesota.

The College of Pharmacy, Nursing, and Allied Sciences ambassadors had an exciting and successful first fall semester. It started with a fun and informational two-day retreat in September where the ambassadors discussed electing and nominated officers, set ground rules and, most importantly, got to know each other.

Activities included several icebreakers plus training for campus tours, diversity awareness and the different majors in the college. The ambassadors are the first interdisciplinary student organization within the college. They represent all the majors and levels of majors, so they can promote all the disciplines.

Elections were held in October. Nominated members gave a short speech on why they would be the best candidate for the position and left the room as other members made positive comments about them and voted. Winners were announced immediately, and those who did not get the position were allowed to move to the next available position if they wanted.

This was a big day for the organization, as it marked a step in becoming a student-run organization.

The newly elected officers got right to work on a constitution for the organization. Not only have they been busy, but the group also gave tours to prospective NSDU students during Discover NSDU Days in the fall and met members of the Pharmacy National Advisory Board at Homecoming.

Some of our freshman students were living in hotels during fall semester instead of on-campus. To help connect them with the college, we hosted pizza parties that included games and information about the college. We have done so much more, but these were the highlights from fall semester.

Overall, it has been an exciting semester. The ambassador group is forming well considering it is not yet a year old. With guidance from advisors and the college, the future looks bright and promising for this group.

Roland Achenjang, ambassador president

Elected officers:
President: Roland Achenjang (pharmacy)
Membership Chair: Sharo Johnson (nursing)
Secretary: Abbe Malone (radiologic sciences)
Dean’s Liaison Committee: Ali Berg (pharmacy/pharmaceutical sciences)
Recruitment Chair: Marilyn Kinnard (nursing)
Public Relations Chair: Kate Jones (pharmacy)
Special Events Chair: Carrie Kincade (nursing)
Historian: Katie Montag (pharmacy)
Pharmacy Liaison: Cole Helbling
Nursing Liaison: Sarah Roehl
Allied Sciences Liaison: Shawn Pearson (radiologic sciences)
Pharmaceutical Sciences Liaison: Kacie Hughes

Ambassadors start first year strong

The College of Pharmacy, Nursing, and Allied Sciences ambassadors had an exciting and successful first fall semester. They represent all the majors and levels of majors, so they can promote all the disciplines.

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The NDSU American Pharmacists Association Academy of Student Pharmacists experienced an exciting fall semester. Our organization has been revitalized with new members bringing new ideas and energy to our projects.

We continue to dedicate our efforts in support of three patient care projects: Operation Diabetes, Operation Immunization, and the Heartburn Awareness Challenge. In support of Operation Diabetes and Heartburn Awareness, APhA-ASP students provided health screenings at the Big Iron Farm Show in West Fargo. This is an annual event that gets our members out of the classroom and into direct contact with patients.

Operation Diabetes also provided blood pressure and diabetic foot screens at West Acres this fall. Students working with Operation Immunization were involved in the meningitis and flu clinics sponsored by the NDSU Wallman Wellness Center.

Our chapter addressed the topic of economics and the impact of difficult financial times on patients. According to the Great Plains Food Bank in Fargo, one in 12 North Dakotans will access emergency food services, with a majority being children and the elderly. How will this affect patients when it comes to paying for health care and medications? With this question in mind, the NDSU APhA-ASP and the College of Pharmacy, Nursing, and Allied Sciences dedicated November to a month-long food drive to support the Great Plains Food Bank.

Ramona Dank, ASP member

Flu shot clinic for athletes a success

The student athlete immunization clinic was a great chance to spread the word about the pharmacist’s role in immunizations. Using the Concept Pharmacy, six fourth-year pharmacy students and two faculty members prepared and labeled 180 syringes of the influenza vaccine. An immunization clinic was held at the Bison Sports Arena and in just two-and-a-half hours the team immunized 130 athletes. Assistant professor Jeanne Frenzel organized the clinic and plans to make it an annual event.

Steven Bladow gives an influenza injection to a student athlete.

Fourth year students who helped from left to right were: Steven Bladow, Emily Krause, Anne Gorder, Kristen Bjorken, Alexis Barr and Alanna Bowman.

Show your NDSU pride!

Your purchase supports NDSU’s chapter of the Academy of Students of Pharmacy.

Order Form:

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<th>Item</th>
<th>Color</th>
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Shipping: $7.00

TOTAL ENCLOSED $________

Order forms and checks, payable to ASP, should be sent to Paul Connolly, Dept 2650, PO Box 6050, Fargo, ND 58108-6050. For further information, contact Paul Connolly at 701-231-7722 or e-mail paul.connolly@ndsu.edu.
development

Thank you to the following alumni and friends for their gifts to the pharmacy program from July 1, 2007, to June 30, 2008. These gifts listed by class allow us to carry the tradition of excellence in the highest-quality teaching, research and outreach programs in pharmacy.

Every effort has been made to ensure accuracy, but errors or omissions may have occurred. Please bring any such errors or omissions to the attention of the Foundation Office.

Class of 1950

Class of 1951

Class of 1952

Class of 1953

Class of 1954

Class of 1955

Class of 1956

Class of 1957

Class of 1958

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Class of 2022

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Class of 2024

Class of 2025

Class of 2026

Class of 2027

Class of 2028

Class of 2029
During this past holiday season, I was thinking about how alumni and corporations have made a significant impact on our pharmacy students. On Sept. 18, we awarded $182,000 to more than 130 pharmacy students. Many of these students continue to stop by my office and talk about how grateful they are to have received scholarships.

Excerpts from one student letter stand out the most for me:

“For whatever reason, that stuck with me, and I’ve been telling people since I was 12 that I was going to be a pharmacist. It seemed to fit. Math and science were things I was good at in school, and I wanted something medical in the hopes of helping others in some way. (I was really thinking of medical school, but it turns out that I’m not a fan of blood in school discussions ... Pharmacy kept looking better all the time.)”

“I have always been taken aback by the generosity of some. To give so freely to someone that you never met is a rare, wonderful thing in this world. Thank you. In the future I pray that I will have the foresight and discipline to follow.”

A message from the advancement office and talk about how

Many of these students received scholarships.

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“I have always been taken aback by the generosity of some. To give so freely to someone that you never met is a rare, wonderful thing in this world. Thank you. In the future I pray that I will have the foresight and discipline to follow.”

Don’t forget, we love to have visitors in Sudro Hall. Please stop by and see all of the exciting happenings within the college and at NDSU.

Sara Tanke
Director of Advancement
701-231-6461 or Sara.Tanke@ndsu.edu.
calendar of events

FEBRUARY
17-22 NDSU in Arizona Alumni Events

APRIL
4 Alumni Social – American Pharmacists Association Annual Meeting and Exposition, 5–7 p.m., Henry B. Gonzalez Convention Center, Room 007C, San Antonio, Texas
Visit www.ndsu.edu/pharmacy for more information

MAY
14 Nurse Pinning
15 Pharmacy Hooding Ceremony
Graduate Commencement, Fargodome
16 Undergraduate Commencement, Fargodome

SEPTEMBER
11-20 50 Year Reunion