

The College of Pharmacy

Summer 2012



Beastroms, Markls honored for contributions to SDSU — Page 4

A family of female pharmacists — Page 6

Teacher of the Year Tadd Hellwig— Page 14



South Dakota State University



DEAR FRIENDS

The 2011-12 academic year was one filled with numerous achievements by our students, faculty, and alumni. Within this issue of our magazine, we have highlighted many of these achievements.

The value of exceeding patient expectations

Student achievement is featured in this publication as we introduce you to the 69 members of our 2012 Doctor of Pharmacy graduating class. During the Pharm.D. Hooding Ceremony, my brief message to the Class of 2012 was that in this era of health-care reform, the ability to adapt to change coupled with hard work is essential as it relates to future success as a pharmacy practitioner.

I challenged our graduates to think of new ideas and creative approaches to opportunities within the changing health-care landscape and reminded them of the importance of finding new ways to fit in as a valued member of the health-care team. And above all else, I reminded our graduates of the value of exceeding patient expectations.

Fortunately for all of us, the Class of 2012 appears to be motivated to contribute to our profession in such a manner.

Faculty recognized for excellence

Faculty achievement was recognized during the SDSU Celebration of Faculty Excellence Awards Banquet and I am pleased to say that the College of Pharmacy was well represented during the program.

Chandradhar Dwivedi, head of the Department of Pharmaceutical Sciences, received the Harold and Barbara Bailey Award for Excellence in Academic Department Leadership. In addition, Omathanu Perumal received the F.O. Butler Award for Excellence in Research and Jane Mort received the College of Pharmacy Distinguished Scholar Award that evening.

I invite you to read stories profiling these faculty members as well as the college's Teacher of the Year —Tadd Hellwig.

Alums continue outstanding support

The College once again received tremendous support from its alumni throughout the year, and it was a true honor for our College to be involved in a couple of special alumni recognitions that are featured in this issue.

The dedication ceremony of the Laughrey Lecture Halls in the Avera Health and Science Center will forever be identified as a great event in our College's history. Formally placing the Laughrey name on the lecture halls is a very appropriate recognition of Bruce Laughrey's outstanding career and loyal support of SDSU.

All of us at the College were equally delighted to participate in the recognition of the Bernard Beastro family as the SDSU Family of the Year. This too was very fitting considering the Beastro family's loyalty and passion for South Dakota State.

An invitation to stop for a visit

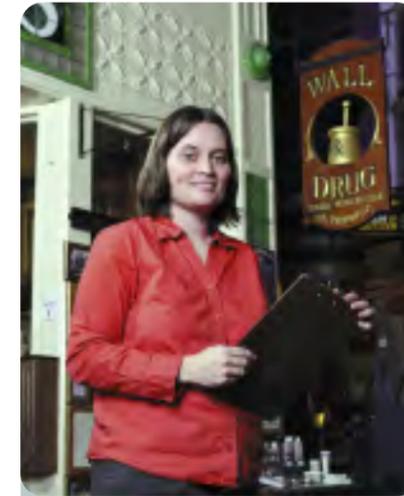
Finally, this issue of our magazine also contains stories on our White Coat Ceremony, spring convocation, student leadership projects, a South Dakota pharmacy family tradition, and world famous Wall Drug.

As you will see in the pages that follow, many great things are happening at the SDSU College of Pharmacy. If you are ever in the Brookings area, I invite you to stop by so that we can share our achievements with you first hand.

Best wishes,

*Dennis D. Hedge
Dean of Pharmacy*

About the cover



Cindy Dinger '01 stands outside the entrance to Wall Drug Apothecary Shoppe, a practicing pharmacy in a land of make-believe and curios. While she does sell plenty of bottles of Dr. Feelgood's Amazing Wall Drug Tonic, she also fills an average of 50 prescriptions per day, mostly to local customers. *See story Page 2.*

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Cindy Dinger - Wall Drug

Small-town pharmacy amidst big tourist attraction



There's no doubt about Wall Drug's role as a tourist attraction. Just look at all those signs along the highway.

For the travelers who visit there, it's a city block of jackalopes and doughnuts, free ice water and 5-cent coffee, cowboy hats and Mount Rushmore coffee mugs.

What might be lost in the drive to lure tourists is that it really lives up to its name. Wall Drug has a pharmacy.

Nestled in between the Rockhound Shop and the Country Store and Fudge Shop is the Wall Drug Apothecary Shoppe. Behind the counter is Cindy Dinger '01 busily fulfilling the role of professional pharmacist at a location that's likely better known for its T-rex and its animatronic cowboy quartet than it is for filling prescriptions.

From Sioux Falls to Wall

Dinger has been behind the counter five days a week since June 1, 2010, moving to Wall from Sioux Falls where she interned and then worked at Lewis Drug and where she spent more than seven years with Walmart.

Even though the pharmacy is part of the store's origin and namesake, it isn't allotted much space. The cold remedy aisle at Walmart is bigger. But what the store lacks in size, it makes up for in personality and intimacy.

Dinger's professional life has changed quite a bit from the days in Sioux Falls when it was common for the pharmacy where she worked to fill 700 to 800 prescriptions a day. At Wall Drug, she averages 50 prescriptions a day, 90 if the pharmacy gets real busy.

Going to work at a smaller store meant a change in culture and an increase in responsibility. According to Dinger, Walmart was vigilant about compliance issues. Now it's Dinger who's vigilant.

"I'm the one who makes those decisions," Dinger says. "It's challenging that way."

Accounting didn't add up

Dinger's first challenge was just figuring out that she wanted to be a pharmacist. A rancher's daughter from Midland who wasn't sure what she wanted to do with

her life, Dinger took a high school aptitude test that told her she should be an accountant or a pharmacist.

After a year of studying accounting at the University of South Dakota, she was off to the College of Pharmacy at SDSU.

"I loved it there," Dinger says, and she found her calling in pharmacy.

"I always had an interest in health care," Dinger says. "I liked the retail aspect of it, interacting with people on a daily basis."

There was plenty of interaction at Lewis Drug and Walmart, so much that it was tough for Dinger to get to know her customers. And there were other aspects of the big stores that were unappealing.

"I do not miss the long hours or weekend and holiday work," Dinger says.

Her customers these days walk up to the store and perhaps some people would think it odd that in the middle of one of South Dakota's largest tourist attractions, most of Dinger's customers know her name.

"Wall is kind of a unique community," says Dinger, noting Wall Drug's ability to attract tourists as well the town's proximity to the Badlands and the Black Hills. "It's a little busier because of that."

Other than tourism, Wall also has two large employers, Golden West Telecommunications and West River Electric Cooperative.

"It's not your typical small town," Dinger says of the community of 800, though it has a small-town feel for the folks who live there.

"It's nice because you go to the post office, and everyone knows you," Dinger says. "People in a small town approach you in a little more neighborly way."

Great place for kids

With three small children to raise, Dinger and her husband, Ryan '96, found the pace and amenities in Wall to their liking.

Dinger was first attracted to her job at Wall Drug because of the hours, 8:30 a.m. to 5 p.m. Monday through Friday. When their oldest child started school in Sioux Falls, it was an ongoing struggle to balance their schedules. Dinger's husband traveled as a sales representative for an agricultural



Cindy Dinger '01 says many tourists are surprised to learn Wall Drug really does have a drug store, but the occasional tourist who forgets to pack his prescription and the community of 800 are plenty glad that Dinger continues the store tradition begun by its founder, Ted Husted, in 1931.

company and Dinger's schedule at Walmart sometimes kept her at the store until 7 or 9 p.m.

"It was always a challenge," Dinger says. "Our children needed us more."

Ryan's still on the road selling, but Dinger's schedule allows her more time to care for Ava, 8; Nora, 6; and Emmet, 4.

If the hours were the job's initial draw, now it's her customers who are the big attraction.

"I know everyone and everyone kind of knows me," Dinger says.

The curious tourists

The pharmacy at Wall Drug is the only one in town. In amidst a sea of summertime tourists, Dinger estimates that 90 to 95 percent of the prescriptions she fills are for local customers.

"You do the occasional tourist thing," Dinger says if a traveler has forgotten to pack the right medicine.

Some tourists are attracted to the novelty of having their prescription filled at Wall Drug. Despite the name that they've been reading for miles along the highway, many visitors are surprised that there's a real pharmacy at Wall Drug.

When visitors express their surprise, Dinger has some readily available brochures about the history of Wall Drug. She'll point out the pharmacy-related antiques in the store as well as the portraits of the founders, Ted and Dorothy Husted.

Dinger notes that as the original Wall Drug languished during the Dirty '30s, it was Dorothy Husted's idea to lure thirsty travelers with free ice water.

"Dorothy gets the credit for saving the drug store," Dinger says.

'What America is all about'

Maybe it's all the antiques throughout Wall Drug or the Old West nature of the place, but Dinger says many travelers expect her to stock oddball items. One gentleman was looking for a "thing you sniff for sinuses," Dinger recalls, that came in a "Chinese-type jar."

"They're looking for the old remedies they heard about," Dinger says, or, she adds with a smile, they often inquire about the availability of laudanum, an opium-alcohol mixture popular in the early 20th century. When that happens, Dinger or pharmacy technician Lu Ann Garland are quick to offer a bottle of Dr. Feelgood's Amazing Wall Drug Tonic. The bottle is empty, but the label proclaims, "It'll cure what ails ya!" and it's one of the pharmacy's top sellers during the tourist season.

Dinger and her husband have built a house in Wall, where they feel like part of the community and where they've chosen to raise their children.

Still, Dinger admits that some people she knows wonder why she'd want to live in Wall. She got a pretty good answer to that question recently from a traveler from Chicago who was taken with the town and with Wall Drug.

"She just loved it," Dinger recalls. "She said, 'This is what America is all about.'"

Dana Hess



Left: The Beastrom family tours the Avera Health and Science Center Feb. 18, when they were recognized by SDSU Alumni Association as Family of the Year. Above: Sharon and Barry Markl, both 1968 graduates, donated funds for the Student Resource Room in the Avera building.

Family of the Year

Beastroms, Markls honored for contributions to SDSU

Four pharmacists from three generations, but one family, each have filled distinctive niches in the profession. Collectively, the Bernard Beastrom family was named SDSU Alumni Association Family of the Year in February.

The association annually honors a family during a home basketball game, and this year the group and Staters for State, the student alumni organization, had no arguments in accepting the nomination by Pharmacy College Dean Dennis Hedge.

The Beastrom connection to South Dakota State dates to 1942, when Bernard Beastrom attended classes in Aggie School, which was established in 1908 for students who were not near a high school or couldn't break from farm responsibilities for nine consecutive months.

Conrad Beastrom started in '49

The connection to what was then the Division of Pharmacy dates to 1949, when Conrad Beastrom, Bernard's brother,

enrolled in what was then a four-year, Bachelor of Science program.

Conrad Beastrom served in the military before entering pharmacy school. After graduation in 1953 he became a pharmacist in Marshall, Minn. After several years he began to split his practice between Marshall and Wickenburg, Ariz., later working in California and Nevada, where he died in 1977.

Boy meets girl; Markl & Beastrom

While Conrad Beastrom was in Marshall, Barry Markl was graduating from Edgerton (Minn.) High School with a pharmacy career in his plans.

It was in his junior year at State that Markl made his connection to the Beastrom family. Sharon Beastrom was a freshman in Pierson Hall while Markl was living in nearby Mathews Hall. They met while waiting in the food line at Grove Commons.

Apparently, the cooks seasoned the meal with love potion because two years after that lunch-line introduction, the couple was married in 1968.

Just before Markl said "I do," he exclaimed "I did it," earning his five-year, Bachelor of Science degree in pharmacy, thanks in part to Walgreens providing him \$600 per semester for the last three years with the guarantee of a job and loan forgiveness.

Sharon Markl earned an associate of arts degree in secretarial science.

Like his wife's uncle, Markl started a career in retail pharmacy. He began as a retail pharmacist with Walgreens in Beloit, Wis.

After nine months of training, it was on to Kenosha, Wis., as a store manager. Five years later (1974) he was transferred to a large store in Odessa, Texas, as a store manager. In 1978, he became a district manager in Orlando, Fla., for 1½ years.

In late 1979, Markl was transferred to Milwaukee because Walgreens had just bought a chain of pharmacies and needed Markl to oversee a district. In 1986, he was promoted to regional vice president at corporate headquarters in Deerfield, Ill.

Markl served as vice president of store operations from 1986 to 2004, when he

became senior vice president of store operations before retiring in March 2007 after 40 years with Walgreens.

The Markls had two children and both followed family tradition into pharmacy. Brandt is a pharmacist manager with CVS while Ryan is a registered pharmacist/store manager with Walgreens.

Krista Stevens found 'a good fit'

The next generation is represented by Sharon Markl's two nieces — Krista (Beastrom) Stevens, the daughter of State graduate Terry Beastrom, and Brandy (Beastrom) Ludemann, the daughter of State graduate Jim Beastrom.

Stevens, who was raised in Pierre, pursued pharmacy because "I wanted to be involved in the health-care field and pharmacy was a good fit for me. I could communicate with the patients."

Her first year of college was at a small, private school in Iowa, where she thought she would pursue occupational therapy. "But it wasn't a good fit with my personality and skills." Stevens was happy she could get a pharmacy degree at an in-state institution.

Plus, "I was proud to go where my parents and grandparents went," says Stevens, who earned her degree in 2001 and was a member of Rho Chi honor society.

Stevens has been in retail pharmacy for 11 years, beginning with Walgreens in Sioux Falls, followed by four years with an independent pharmacy in Pierre. For the last five years she has been with Walgreens, the last three in Spearfish, where she is pharmacy manager.

Brandy Ludemann leads fraternity

Ludemann, now of Fort Pierre and originally of Pierre, considered being a veterinarian, but knowing that she also wanted to raise a family, decided pharmacy would be a better fit for her. Family tradition made SDSU the logical place for her to pursue a pharmacy education.

In her professional career, Ludemann worked four years at St. Mary's Health Care Center in Pierre as a staff pharmacist, five years at Walgreens in Pierre, and now

as a retail pharmacist with Jo Prang's Medicap pharmacy in Rapid City.

At State, she developed a couple close friends in her pharmacy class of 2003. They served together in Kappa Epsilon, Rho Chi honor society and Phi Lambda Sigma leadership fraternity, which she was president of for one year.

"We had a good time, other than having to study all the time for pharmacy," Ludemann says.

Study sites change through generations

She did her studying in the student lounge in the Guilford Gross Pharmacy Building. "It was just a place just for the pharmacy students to hang out. Chairs, table, books, a computer or two. It wasn't anything like they have now. I wish I was a student there now," Ludemann says.

Markl remembers studying with his future bride in the pharmacy library on the second floor of Shepard Hall. "It was a meeting place for us for a couple years. Small, but quiet," he says of the study spot, dominated by bays of reference books.

While Beastrom and Markl took their pharmacy classes in the first-floor classrooms in the Administration Building, Stevens and Ludemann did their learning in a new structure to the north of the Administration Building. The Guilford Gross Pharmacy Building was constructed in 1980 as an extension to Shepherd Hall, which housed chemistry and pharmacy labs.

In 2008, the Guilford Gross Pharmacy Building was razed and the \$51-million Avera Health and Science Center was built with dedication taking place Sept. 9, 2010.

Markls make a difference

The Markls were among the 600 in attendance, and well they should have been. The couple has been a long-time contributor to the college.

Markl served on the College of Pharmacy Advisory Council from 1997 to 2002, and aided the Pharmacy "Future is Now" Campaign Committee in 2002-04, which sought to raise funds for the building.

For the last three years, he also has served on the SDSU Foundation Phoenix

Regional Campaign Committee, which seeks to raise \$200 million to improve facilities, scholarships and faculty positions universitywide.

Barry and Sharon Markl have contributed to the Jackrabbit Guarantee, a scholarship program that awards \$1,000 per year to qualifying undergraduate students attending classes on the Brookings campus.

Resource room now, oncology chair later

In 2010, the Markls made a sizeable contribution to the Avera Health and Science Center project.

In the Markl Student Resource Room students can use one of the eight computers to do research or homework, and look to the plasma message board to catch messages posted by faculty members about class schedules, deadlines, scholarship information and professional activities. Markl chose to have his name attached to that room because of his fond memories of studying in the pharmacy library in Shephard Hall.

The Markls also are members of Sylvan Circle, which recognizes those who have contributed a planned gift from their estate to the SDSU Foundation.

The generous couple showed their appreciation to the College of Pharmacy when in fall 2009 they committed to a charitable remainder trust that will establish an enhanced chair with the College of Pharmacy to benefit the college's oncology research program.

Markl notes that both his and Sharon's mother are cancer survivors, and the college has a strong cancer research program. "So we just felt (the gift) was a good thing to do," Markl says.

Prior to the building dedication, Markl said, "A plaque is fine, but I'm not one who likes much limelight recognition. I feel blessed and proud to help in some way."

Hedge says he considers it a blessing to have families like the Beastroms to count on as alumni.

Dave Graves



Garry girls

continue a long line of female pharmacists

Posing for a wedding photographer are pharmacists, clockwise from upper left, Laurie Garry, her daughters, Emily (Garry) Laible and Jody (Garry) Ellingson; and the girls' grandmother, Dolly Jorgensen.

Family lines often connect pharmaceutical careers, going down 50 or 60 years or more. At the source, there is virtually always a male.

That's not the case in the Garry family, which has four active pharmacists — Emily (Garry) Laible '03 and her husband, Brad '99/'01; Jody (Garry) Ellingson '06, and the girls' mother, Laurie (Jorgensen) Garry '76. The root in this pharmaceutical family tree is Dolly (Mettler) Jorgensen.

She was the fifth of six children in the family of John and Amy Mettler, who farmed near Chester.

Although Jorgensen's parents had only a basic education, John Mettler encouraged his children to go to college. "When it was my mom's turn, she really didn't know what to major in," says Garry, whose career began and continues in Mitchell.

"One of the neighbor's sons had started in pharmacy, but didn't continue. But they had the book — the Remington Pharmaceutical Sciences. Back then it was THE book. It was a big, thick book that covered about everything known about pharmacy," Garry says.

So with a free textbook as a lure, Jorgensen marched off to Brookings about the time World War II was forming.

College in the war years

Jorgensen graduated from the four-year program in 1945. By then enrollment at South Dakota State dropped to 343 from 1,301 in 1941 because students were serving in World War II rather than studying the Remington. There was one other graduate, a male, in her pharmaceutical class.

During the school year, she worked in the Jungle in the Pugsley student union as a waitress while working one summer at a downtown drug store and another summer at a Rapid City drug store, where every Friday Gutzon Borglum, creator of Mount Rushmore, would drop off pictures he had taken during the week.

Right after her graduation in 1945, Jorgensen jumped on a bus to Phoenix, where she would marry local serviceman Leo Nelson. She didn't take her pharmacy boards, but settled into the life of a farm wife and raising two children on their place near Colman.

Tragedy turns Nelson to pharmacy

When Leo Nelson died from cancer Aug. 19, 1951, Dolly Nelson turned to her pharmaceutical training.

She was a pharmacist at Rolfe's Drug Store in Flandreau until marrying Luverne Jorgensen Feb. 24, 1953, at Luverne, Minn. They farmed in the Flandreau area, except for a year spent in Oregon. In addition to being a mother and farmer's wife, Dolly Jorgensen was a relief pharmacist at Family Pharmacy in Flandreau.

She continued that role into her 70s.

Laurie Jorgensen was born in 1953. She remembers that her mom, who died Sept. 21, 2010, at age 87, always worked while raising her family.

In addition to doing relief work at Family Pharmacy's downtown and clinic locations, she would drive to Dell Rapids, Brookings and Alcester to do relief work. "She would quite often drive quite a ways for people wanting to go on a vacation," Garry says.

"I know work was really important to her. Yet she managed to juggle huge gardens and canning and all us kids," she adds.

Garry lacked confidence early on

Dolly and Luverne Jorgensen had three children. Garry was the only one to become a pharmacist. "I liked the sciences. I really liked chemistry a lot. My mom said, 'You like chemistry, just sign up for pharmacy.' I was scared I wouldn't get through it.

"When I was first a freshman, it was my declared major. But when anybody asked me, I didn't want to say because they would always say, 'That's a tough major.' I wasn't sure I could make it through."

But she did, thanks to a "wonderful class" and an encouraging mother.

"Mom said the hardest class she had was English. I could relate to that. If some English teacher gave me the assignment of writing a poem and it couldn't rhyme, that would keep me up at night," says Garry, who also stayed up a few nights with future husband Jerry Garry, a finance major.

As her 1976 graduation approached, she faced the dilemma of not having job offer.

Garry's career began in retail

She dropped off her name with the dean's secretary. Soon afterward, Marly Graham from Graham Pharmacy in Mitchell called. He interviewed Garry in the lobby of Young Hall when he came to pick up his son.

Garry got the job, started immediately, passed her board and worked three years in retail.

But then Graham's son was coming back into the business and the pharmacy didn't have a place for her. A position opened up at the Methodist Hospital in Mitchell. From there she went to St. Joseph's Catholic Hospital in Mitchell.

The hospitals consolidated in 1991 and became Queen of Peace, where Garry continues to work as a staff pharmacist.

"I've worked full time since I graduated. I never regretted it. It worked very well for me," Garry says.

Garry stayed away from recruiting

Ellingson says she rarely visited her mom at the hospital pharmacy, but "some of my favorite memories growing up were, if she had to work on Sunday, after church we would have lunch with her in the hospital cafeteria. Sometimes she'd get called back into work. Sometimes she had to work holidays.

"I remember being proud that she was a pharmacist. ... She always told us how she loved her job and how blessed she was to have it."

But she didn't push her daughters into pharmacy. "I never ever said a word to them about pharmacy as far as a major. ... Both my daughters like the sciences. They just kind of tuned into it (pharmacy) on their own," says Garry, who also has a niece in pharmacy school.

Laible says, "If anyone encouraged us to go into pharmacy, it was my father. He pointed out that at that time it had a lot of job opportunities."

Ellingson: Anything but pharmacy

Ellingson, three years younger than her sister, says, "Growing up I didn't really have an interest in pharmacy. Then when my sister decided to go into pharmacy, everybody asked me if I was going to go into pharmacy too. I said absolutely not. I swore up and down that I wasn't going to be a pharmacist.

"My first two years I even went to the University of South Dakota to prove I wasn't going to become a pharmacist."

But when physical or occupational therapy weren't a good fit, Ellingson started exploring other health fields and talked to her sister about pharmacy. "I told her she wasn't allowed to talk to my mom. I didn't talk to my mom about it. I didn't want her to be disappointed if I decided not to go into pharmacy," Ellingson says.

Ellingson: Mom a good resource

But once she committed to pharmacy school, Garry was "very helpful with the whole application process, with preparing me for what to expect for the interview, and helpful with classes," Ellingson says.

Garry even had a post-finals test for her daughter.

"One year I had just finished finals and came home brain dead. The first thing my mom does is hand me a long calculations problem she had from work that week and made me do it to see what answer I would have come up with," Ellingson says.

Garry no longer asks her daughters to do calculations when they come home, but the family does talk shop frequently.

Laible says, "Counting my husband, there are four pharmacists in the room. We certainly use that opportunity to pick each other's brains. What new drugs are in the pipeline, how do you manage patients? If you ask my brother-in-law and father, we probably talk too much about pharmacy.

"But we all like what we do and we understand the contribution we can make to the people we are with."

Jerry Garry: Enough pharmacists already

When Brad and Emily Laible became engaged, Jerry Garry had a talk with his younger daughter. He told her she couldn't marry a pharmacy student because "I am running out of people to talk to in this family," Ellingson recalls.

Ellingson complied. When she and Mark started dating, her future husband was a medical technology graduate from North Dakota State, though he began as a pharmacy major.

The couple married in 2007. They have two potential pharmacists — Mason, 3, and Adeline, 8 months. The Laibles have three candidates — Billy, 6, Joey, 5, and Rose, 2.

Remington ready for next generation

When they approach college, like their great-great-grandfather Mettler, their parents will encourage college.

And like Dolly Jorgensen, there will be a free book available to help influence their decision. When the family was sorting through Jorgensen's possessions after her death, there was the Remington Pharmaceutical Science book she was given 70 years earlier.

It now sits on Brad Laible's office shelf with other pharmacy collectibles waiting for a young mind to discover it.

Dave Graves



Wettergreen

works to better pharmacy profession at national level

So far, Sara Wettergreen's time at SDSU has been quite eventful. After becoming acclimated to the local climate, this California girl is serving notice that she is more than just another pharmacy student.

"As student pharmacists we are really proactive about moving the profession of pharmacy forward, so instead of our standard roles of dispensing, we are looking at ways to branch out in the types of things we can do to improve the profession," she says.

Looking to graduate with a Pharm.D. in 2014, Wettergreen has certainly branched out.

In January, she was named to the American Pharmacists Association-Academy of Student Pharmacists National Standing Committee on Education. The committee is one of four student committees under the national umbrella — and they are selective with only four students serving on each one. The last SDSU pharmacy student named to one of the national committees was Emily Maydew in 2004.

As president of the SDSU chapter of the American Pharmacists Association-Academy of Student Pharmacists, Wettergreen attended the Summer Leadership Institute in Washington, D.C., in summer 2011, when she met chapter presidents from every pharmacy school in the country along with executive committee members and the four student committees of the American Pharmacists Association.

"They inspired me to apply to be a committee member," she relates. "I saw it as a way to make a bigger impact so pharmacists can enhance their role."

Seeking more knowledge

Wettergreen was inspired to head east from her home in Riverside by her father, David Wettergreen, a 1986 State pharmacy graduate.

"We toured the campus together and I was impressed," she says. "I did receive the Briggs Scholarship, which was another incentive to come here."

Even now, Wettergreen can't help but joke about her first year in Brookings. "It was like record number of blizzards, record cold, and record snowfall. When I told dad, he just laughed and said, 'We didn't have one blizzard my entire four years there.' I don't think he was telling me the whole truth, but that's OK."

With the education committee providing the perfect platform, there's no joking around when it comes to Wettergreen expanding her pharmacy knowledge.

"Within the student group nationally there are four patient care projects and on the education committee we work to enhance those projects," she explains. "We decide what kind of education programs we want students to have and what kind of patient outreach they should have."

"For example, one initiative we have is operation heart, where we do blood pressure screenings, which involves implementing more cholesterol screenings to see what types of things students could be doing more of in terms of outreach."

Busy with position

Elected to the one-year term in January, Wettergreen is constantly busy with education committee duties with teleconferences, emails, phone calls, and every couple of months, she travels for meetings.

"It's really a lot of fun," she says. "There are four of us and we stay in touch all the time. We talk almost every day."

The first gathering, which occurred in March in New Orleans, laid to rest any questions Wettergreen had about her position.

"It's better than I thought . . . it's more team-oriented than I expected," she says. "In New Orleans we talked about different issues in pharmacy and passed some policies; one was regarding telepharmacy and why it's so huge in this state. I brought that perspective to the table and let them know its importance in rural South Dakota."

Wettergreen, a member of student pharmacy chapters Kappa Psi, Rho Chi, and Phi Lambda Sigma, has a summer

internship in Minneapolis at HealthPartners involving a managed care research project.

During the spring semester, she was a research assistant on a project headed by Assistant Professor Yinka Shiyanbola that involved auxiliary labels on prescription bottles. Targeting underserved populations during visits to the Brookings Library, she had would-be patients look at different bottles and documented how well they understood the label instructions.

"They filled out forms to assess their reading comprehension levels," she says. "Then I had them look at the bottles to see what they thought and I recorded what they said. It was not only about making labels easier to understand, but also how pharmacists can improve on what they are doing."

Staying involved

Wettergreen hopes time on the education committee, along with the research projects she has done so far, will help secure a residency position following graduation in two years.

"To do a residency you have to lead your own research project," she says. "Residencies are really competitive, so all the experiences I've had so far will greatly aid me in getting a residency."

After spending her next two years in Sioux Falls at University Center doing coursework and clinicals, Wettergreen expects to have a pretty good handle on her career path.

"I'd like to be a clinical specialist at a hospital and teach part time at a college somewhere," she says. "I want to stay involved with students."

Kyle Johnson

Sara Wettergreen, who was named to the American Pharmacists Association-Academy of Student Pharmacists National Standing Committee on Education, goes over a list of prescription bottles used during a research project that targeted underserved populations on how well people understand label instructions.



Honored for research

Right circumstances give Perumal unique opportunity

Omathanu Perumal calls it being at the “right place at the right time with the right people.”

The associate professor’s research has been on the fast track almost since he arrived at SDSU in 2005. His work in developing novel carriers for drug delivery has resulted in the filing of three patent applications and the start of a firm to commercialize the work.

Consequently, the university honored Perumal with an F.O. Butler Award for excellence in research at its Celebration of Excellence Feb. 21.

Perumal called this the right time because of the recent focus on research and the emphasis President David L. Chicoine, an economist by training, has placed on knowledge-based economic development since his arrival Jan. 1, 2007.

In 2008, the university established the first Technology Transfer Office in the state and Perumal’s technology happens to be the first technology licensed by SDSU through this new initiative.

In addition, the funding of the 2010 Translational Cancer Center by the state enabled Perumal to accelerate his work in

collaboration with other researchers from SDSU and Sanford Research.

Opening of the \$51-million Avera Health and Science Center in July 2010 makes this the right place for Perumal.

The right people include his talented team of researchers — graduate student Satheesh Podaralla, post-doc Ranjith Averineni and faculty collaborators Chandradhar Dwivedi and Radhey Kaushik. Podaralla has graduated and now is a research scientist at Stanford Research Institute in California.

Perumal also states that the success would not have been possible without the “outstanding support” from Dean Dennis Hedge, mentoring from Department Head Dwivedi, and the university administration.

Good thing in small package

Butler awards are made for “lasting contributions to the well-being of the people of South Dakota.”

Perumal’s work has the potential to help people far beyond South Dakota. Using zein, a corn protein widely used in the food industry,

Perumal has found a way to encapsulate cancer drugs within nanoparticles from the zein and target the drug to the disease site.

A key question for cancer researchers is “How do you target the drug to the tumor cell and not the normal tissues?”

Part of the answer to this is knowing that cancer cells are rapidly growing, and thus have leaky blood vessels. Normal tissue, on the other hand, have intact blood vessels. Perumal’s current research seeks to find the optimum size for lodging in the bad cells and shunning the good cells, he explains.

He is dealing with a range of 100 to 300 nanometers, or at least 500 times smaller than a human hair.

Industry & academia

Perumal’s research focuses on drug-delivery systems for breast, prostate and skin cancer. His research on skin delivery systems is the most developed and resulted in the formation of Tranzderm in 2011. Earlier this year it moved out of his campus lab.

Now located in the Biospace complex near the city’s Swiftel Center, it has 1,250 square feet of fully equipped lab space for carrying out skin product development work. The company has a full-time chief executive

officer and an operations manager and will soon be hiring Perumal’s post-doc Averineni as the company’s research director.

In addition, the company also has a leading dermatologist and an industrial expert as consultants.

Perumal’s delivery technology is being used by the company to develop products for the cosmetic and pharmaceutical industry.

The company works in close collaboration with several leading pharmaceutical companies. The company has completed the pre-clinical (animal) studies for a drug product and is collaborating with Avera Dermatology Clinic at Sioux Falls for initiating a clinical study in patients.

Perumal serves as chief scientific officer, an unpaid consultant. He could be there full time or working in industry for a handsome salary. However, he prefers the creativity and freedom found in academia.

“In industry, you have to work within boundaries. All is focused on developing a certain product for the market. In academia, there is freedom. One day I can work on skin cancer, one day I can work on prostate cancer, one day I can work on breast cancer.

“The sky is the limit as far as creativity,” says Perumal, who spends 50 percent of his time teaching with 40 percent dedicated to research and 10 percent to service.

Energized to teach

“I’m passionate about working with Pharm.D. and Ph.D. students,” Perumal says, adding that he is fortunate to have some of the brightest and most talented researchers in his team. His graduate students have won more than 25 university and national awards.

Perumal notes that his position requires him to be a good teacher, good researcher, good mentor, and have good organizational skills. “I’m passionate about what I do.”

That passion is felt by Preety Sahdev, a Ph.D. student who has worked with him the last five years.

Sahdev adds, “Dr. Perumal has also been very encouraging and supportive as a supervisor. He strongly believes in all-around development — professional as well as personal — of his students. Working with him has gradually taught us to think big and out of the box.

“We still need to learn a lot from him, including his scientific skills, multitasking abilities and organizational skills.”

Perumal also gives back to his profession through his position as editor-in-chief of two trade publications —the Journal of Biomedical Nanotechnology and the Journal of Nanopharmaceutics and Drug Delivery, which will premiere in July.

Dave Graves

Excellence in Departmental Leadership

Father-figure Dwivedi praised by fellow faculty members



In 2003, Distinguished Professor Chandradhar Dwivedi was promoted to head of the Pharmaceutical Sciences Department.

In an accompanying press release, the father of three said, ““It’s just like being a parent, there’s no manual.” Nine years later, Dwivedi continues a family metaphor to describe his academic leadership. “Every day is different. You have to deal with the children you have.”

And the number of children in Dwivedi’s new house is growing.

Since his appointment, the number of faculty members has grown from eight to 11, there are four postdoctoral fellows compared to zero, and 20 doctoral students in a program that didn’t exist until 2007. They’re living in the \$51-million Avera Health and Science Center, which opened in 2010.

From all appearances, it is a happy, well-bonded and productive family.

Dwivedi’s role earned him the university’s first Excellence in Academic Department Leadership Award at the Celebration of Excellence Feb. 21. He says, “I’m thrilled and honored,” particularly because the award stemmed from faculty nominations.

“If your children honor you, you must have been a good parent,” the 64-year-old grandfather says.

Three major accomplishments

He cites three major accomplishments for the department: the students’ academic success, the creation of a Ph.D. in pharmaceutical sciences, and growth in faculty research. “I take pride in all this. (But) I cannot do all this alone. It’s the team effort.

“I always consider this (team) my family. My wife is sometimes envious,” Dwivedi says with a smile.

Team member Teresa Seefeldt, an assistant professor, says, “Dr. Dwivedi is very supportive of new faculty and works hard to help them be successful.”

Evidence of research growth

Seefeldt also noted his commitment to advancing the research activities of the department.

“Research activities have significantly increased in his time as the department head. This includes increased grant funding, new laboratory space, a significant enhancement in equipment, and the development of the Ph.D. program. His leadership was instrumental in all of these activities,” she says.

Ten years ago, the department was bringing in about \$10,000 per year. Now the awards are more than \$1 million, Dwivedi says.

Several Department of Defense and National Institutes of Health grants have been awarded recently, he says. The state designated the Translational Cancer Research Center as a 2010 Center of Excellence and awarded it \$2.3 million from 2009 to 2014.

Remains active in lab

Omathanu Perumal, a researcher with the center, noted it is the most productive of the state’s 2010 Centers of Excellence.

Speaking of the department overall, Perumal says, “We are probably one of the smallest departments (in the university), but we do much in research. His (Dwivedi’s) footprint is all over this department. He was the one that first started research in this department.”

Dwivedi continues to research, spending an estimated 40 percent of his time in the lab with 20 percent effort dedicated to teaching

and 40 percent for service and administration.

In addition to the role of project director for the Translational Cancer Research Center, Dwivedi is investigating newer chemopreventive agents and improved chemotherapeutic agents for various cancers. He also is co-investigator with Associate Professor Hesham Fahmy on a \$216,250 NIH grant on the chemopreventive effects of sarcodiol on skin cancer development.

Sarcodiol is a product that comes from coral in the Red Sea and has commercial development potential, Dwivedi says.

Following others’ footsteps

Dwivedi is a product of the northern India village of Uttar Pradesh. He was educated in India, moving to the United States in 1973 at age 25. Among his role models are his former professors and his Ph.D. advisor, for whom Dwivedi was the keynote speaker at the man’s 80th birthday gathering in November 2010.

The list of role models also includes his father — Pundit (a title equivalent to reverend) Abhaya Narayan Dwivedi.

“He’s my inspirational role model. I think I am what I am today because of his instincts and his blessings. I started a scholarship in his name four or five years ago,” says Dwivedi, who was honored last year by his own family at the 50th anniversary of his marriage to Prabha.

The Celebration of Excellence provided an opportunity for his other family to honor their role model.

Dave Graves

Harold Bailey, left, presented the university’s first Harold and Barbara Bailey Excellence in Departmental Leadership Award to Chandradhar Dwivedi Feb. 21. Before becoming the SDSU academic vice president, Bailey was a pharmacy department head.

For acetaminophen combinations

Mort's study helps FDA write new prescription



Pain from an arthroscopic knee surgery five years ago had Jane Mort opening the bottle for another dose of Darvocet®, but the pharmacy professor then thought about what she was doing.

"I was taking my third dose (of the day), and I said, 'Wait a second, I've already taken my four grams.' If that could happen to me, what is the likelihood of the untrained person taking an accidental overdose," Mort says in her explanation of how she began to study acetaminophen prescription practices.

Acetaminophen is widely and effectively used in both prescription and over-the-counter products to reduce pain and fever. The problem is acetaminophen is the most common cause of acute liver failure and is most often associated with an unintentional prescription overdose.

Mort, an SDSU faculty member since 1986, explains how that could easily happen.

Scripts for prescriptions like Darvocet are often written: Take one to two tablets every four to six hours. If patients would take two tablets every four hours, that is 12 tablets in 24 hours. Each tablet contains 650 milligrams of acetaminophen. By applying the math, that is 7,800 milligrams of acetaminophen per day.

Earlier research had already established the recommended maximum daily dose of acetaminophen at 4,000 milligrams.

Hence, a person could take nearly double the recommended maximum dosage and still be taking the pain reliever as prescribed.

S.D., national data studied

In 2008, Mort sought to find out how often patients were receiving prescriptions that could put them at risk for acute liver failure. She began by studying South Dakota Medicaid data. Then she gained access to a

Humana insurance database for a national study.

In both studies, Mort was looking at prescription compounds containing acetaminophen and opioids (i.e. codeine, oxycodone), not over-the-counter acetaminophen tablets.

The South Dakota data found that 23.3 percent of prescriptions were written for greater than four grams per day. Nationally, 8.1 percent of prescriptions exceeded the recommended maximum. The percentages were the highest in the Southeast and Midwest.

These variations may be due to differences in the population sampled or patterns of product selection, Mort explains.

In the national study, Mort teamed with Olayinka Shiyabola, an assistant professor of pharmacy practice at University Center in Sioux Falls, and Lilian Ndehi, a pharmacy resident in the Competitive Health Analytics Department with Humana in Louisville, Ky.

Gaining the FDA's attention

Ndehi presented the findings at the Foundation of Managed Care Pharmacy's 2010 convention.

It received the best poster award there and gained the attention of the Food and Drug Administration, which was already studying acetaminophen overprescribing. In June 2010, FDA officials held a teleconference with Mort and her colleagues.

"They asked for us to go over the research and we discussed the findings," Mort remembers.

"It was an eye-opener" to the FDA, Mort says. "One FDA doctor said, 'Wow! I've been prescribing Darvocet that way for years.' I think we were just validating what they had already studied." Indeed, its drug advisory

committee had been voting on various proposals since 2009.

The FDA didn't place a second call to Mort, but Jan. 13, 2011, the board did introduce new guidelines.

Manufacturers of prescription combination products that contain acetaminophen were asked to limit the amount of acetaminophen to no more than 325 milligrams in each tablet. The FDA also required manufacturers to update labels of all prescription combination acetaminophen products to warn of the potential risk for severe liver injury.

Mort says, "It's nice to know you're a part of fixing something and hopefully preventing a lot of people from having acute liver failure."

Named outstanding researcher

Her studies were instrumental in Mort being named the college's outstanding researcher at the university's Feb. 21 Celebration of Excellence. She also was cited for her research in student-learning outcomes, an area of research for her since the early 1990s.

That helps explain why Dean Dennis Hedge appointed her associate dean of academic programs in 2010.

In that position, she provides leadership on curricular assessment and design. In addition, she facilitates the evaluation of all aspects of the College's mission, fosters faculty development, and manages the implementation of the curriculum.

The Pawnee City, Neb., native received her Pharm.D. from the University of Nebraska Medical Center in 1985 and completed a residency at the University of Iowa Hospitals and Clinics in 1986.

Dave Graves

Above: Jane Mort and Dean Dennis Hedge



Experiential learning

Heins oversees experiential opportunities

The pharmacy program at SDSU is designed so that students never have to worry about how they're going to fill out the "experience" portion of a job application. And now the department of pharmacy practice has a new assistant department head to oversee all of the college's many experiential learning opportunities.

Professor Jodi Heins will fill the new position within the department. She joined the faculty in 1994, splitting her time between SDSU and the Veterans Affairs Health Care System in Sioux Falls, where she worked as a clinical pharmacy specialist.

In her new position, Heins will track a number of experiential educational opportunities available to pharmacy students throughout their college careers and even after they have received their degrees.

Some experiential learning opportunities are built into courses in the P1 through P3 years. After the P3 year, gaining workplace experience is a full-time endeavor for students.

Experiential education begins in earnest during the summer after the P1 year with a three-week experience. There's another three-week rotation in the summer after the P2 year.

"They're taking all of what we've taught them in the classroom and applying it in the real world," Heins says.

P4 rotations, residency program

Starting in the summer after the P3 year, students take part in the Advanced

Pharmacy Practice Experiences, eight five-week rotations through a variety of pharmacy locations.

Heins explains that four of the experiences are required and students can choose from two assigned and two elective experiences.

"They try to pick areas of particular interest," Heins says of the electives. "It helps tailor their education to what their goals are after graduation."

Heins will also be involved in the administration of the college's first residency, a post-graduate training opportunity in a one-year community pharmacy program at Liebe Drug in Milbank.

"It's an intense year of learning to further define your skills," Heins says of the residency. "They'll also be looking at the business aspect of running a pharmacy."

The resident will also have an adjunct teaching role at the college.

New: teaching certificates to residents

The importance of the workplace learning experience for pharmacy students has led the college to another innovation: offering a teaching certificate to residents. The certificate would be available to the college's resident at Liebe Drug as well as residents at sites throughout the state like Avera McKennan Hospital, Sanford USD Medical Center, Rapid City Regional Hospital and Veterans Affairs hospitals.

"It prepares them better for an academic position," Heins says.

Even if the residents don't lean toward classroom teaching, chances are they will be working with and teaching pharmacy students.

"It better prepares them for the role of preceptor," Heins says. "This will allow them to be much better prepared for the oversight of students."

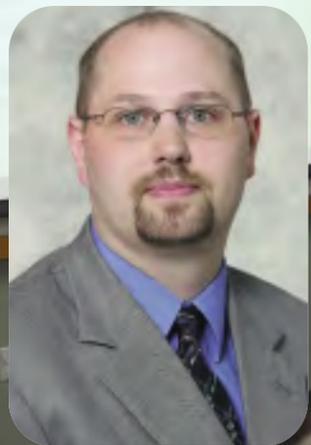
Heins will continue to be based in Sioux Falls, where she lives with her husband and three children. Tackling a newly created position and new programs could be daunting, but Heins knows she'll have good support.

"Bernie Hendricks will continue to work with the preceptors and make site visits," Heins says. "His contacts and knowledge about the state are invaluable."

Dana Hess

"They're taking all of what we've taught them in the classroom and applying it in the real world,"

Professor Jodi Heins



Teacher of Year Hellwig combines practice with teaching

Without a doubt, the best way to gauge a teacher's performance comes from taking a survey of students.

For Tadd Hellwig's showing, his grade topped the list with students selecting him 2012 College of Pharmacy Teacher of the Year. It's a distinction he considers surprising since he has been in his present position for only four years.

"It's a great honor especially coming from the students since it lets me know I might be doing something right. It's a great feeling to know that you have an impact and may be responsible for students learning complex disease-management topics that will stay with them throughout their careers."

As an assistant professor in the Department of Pharmacy Practice, Hellwig splits his time between teaching, advising, scholarship in the college, and as a practicing pharmacist at Sanford USD Medical Center in Sioux Falls.

Hellwig received a Bachelor of Science degree at Chadron State College, before graduating from Texas Tech University Health Sciences Center with a Pharm.D. in 2006. He completed a pharmacy practice residency at Christiana Care Health System in Newark, Del. Following the residency, he was a clinical pharmacist at

the Mayo Clinic before coming to SDSU in 2008.

In the college, he coordinates a pharmacotherapeutics course and teaches a variety of courses to second- and third-year students in the professional pharmacy program. He also serves as a preceptor to fourth-year students during their internal medicine one and two rotations.

At Sanford, Hellwig provides pharmaceutical services to inpatients and works with the Center for Family Medicine on a daily basis. "This opportunity allows me and my students to work with physicians in the interdisciplinary care of patients at the hospital," he notes.

Dedicated to students

Elizabeth Gripenrog, a third-year student, cites Hellwig as a professor who has found the right balance to engage students without losing the ability to push them to think critically.

"We all enjoy Dr. Hellwig's classes because he makes unique connections in his lectures to help us retain the material," she says. "He is a highly skilled clinical pharmacist and professor, but he doesn't take himself too seriously. He relates great with his students and inspires us all to excel in our pursuit of pharmacy."

According to Hellwig, he always wanted to be a teacher and actually started down a teaching track before moving to pharmacy.

"I love being a practicing pharmacist but also enjoy being able to teach others," he says. "Having the ability to combine the two is very rewarding. It's very fulfilling to help students learn or understand information."

"I always like teachers who take questions that students ask and then turn them back to the class to make them think about the scenario and answer it themselves. This job also forces me to stay up to date on current information."

Kayley Lyons, who graduated with her Pharm.D. in May, was greatly impacted with Hellwig's dual roles of teacher and practitioner.

"When I think of Dr. Hellwig, I think of dedication. He is always donating his extra time to ensure the optimal education of each pharmacy student."

"He is a student advocate by continually soliciting our feedback and enrolling students in the solutions. I will carry his ideal model of pharmacist and educator into my future endeavors."

Kyle Johnson

Wurtz works to help reduce errors when filling prescriptions

With four generations of pharmacy in her family history, and being a second-year student in the professional pharmacy program, Kim Wurtz has a vested interest in the profession.

"Pharmacy has had a big presence in my family," says Wurtz, who was the recipient of a \$1,800 Walmart Leadership Fellowship to research medication reconciliation in community pharmacy.

She stresses that medication use has become very complex and indicates the challenge in today's health care is to provide optimal patient care using effective communication regarding medication use among numerous health-care providers in multiple locations over time.

"Inaccurate medication records are one barrier to this effective communication which leads to medication errors," she says. "Many hospitals are trying to prevent medication errors by collecting more accurate records through medication reconciliation programs."

"Let's say a patient sees a heart doctor and gets started on a certain medication. Well, a problem occurs when the patient's primary doctor isn't informed of this change. That doctor may prescribe something that interacts with the medication—so that's what this research is trying to prevent."

Wurtz points out that most hospitals cannot keep up with the time demand required to perform a thorough medication reconciliation and it has been documented that hospital medication records are not as accurate as community pharmacy records.

"This project aims to utilize community pharmacy medication profiles to perform an innovative medication reconciliation in a community pharmacy," she says.

"With records based on actual purchases, community pharmacy-based programs may provide even greater patient safety than achieved with hospital programs."

Study in Elk Point

Wurtz will conduct the research this summer in her hometown of Elk Point. According to the fellowship timeline, the

project needs to be completed by Sept. 14, a final summation by Dec. 31, and dissemination of results at the 2013 Spring Pharmacy Convocation.

The study sample will be recruited at the Elk Point Community Health Clinic, Prairie Estates Nursing Home, Well-Life Assisted Living Center, and Pioneer Drug.

"These locations are aware of the planned project and have agreed to participate," says Wurtz. "Participants will be recruited at the clinic when they come in for any type of health visit, by the pharmacy after receiving refill authorizations from prescribers at the clinic, and from the nursing home and assisted living center when they are admitted."

Leading up to her actual hands-on study in Elk Point, Wurtz came across some "startling" national statistics. In the United States, she found there are about 100,000 deaths every year linked to medication errors.

"Two-thirds of these errors could have been prevented with an accurate medication history at admission," she reports. "Research continues to prove that medication mistakes are the most frequent cause of harm for patients."

And, says Wurtz, keeping an open line of communication seems like a natural thing to do, but it's not always the case.

"The problem is a pharmacist might find a difference in the pharmacy record and

make the change thinking it will then match the clinic records or a pharmacist might believe the physician intended to prescribe an interacting medication because the benefits outweigh the risks.

"These situations can occur without the pharmacist ever contacting the doctor to clarify the difference or to double check if the doctor is aware of the potential interaction. This can happen due to time constraints, especially in bigger pharmacies where 600 prescriptions are filled every day."

Communication a key

Assistant Professor Brittney Meyer, Wurtz's advisor, emphasizes the project is perfect for the times.

"Her research is really covering a gap and it's an important subject right now. The more we can collaborate with each other the better it will be, especially when we're talking about improving patient outcomes and preventing re-admissions."

"Hopefully, this project will do that and be a working model for other people who want to start a process similar to what Kim is implementing."

Discrepancy and outcome forms following conclusion of the medication reconciliation program will be kept for statistical analysis, according to Wurtz.

Kyle Johnson



Kim Wurtz, a second-year student in the professional pharmacy program, examines a prescription bottle with Assistant Professor Brittney Meyer. Wurtz received a \$1,800 Walmart Leadership Fellowship to research medication reconciliation in community pharmacy.

Distinguished Graduate Terry Hoffmann

Military experience helps lead Distinguished Graduate Award winner to VA



It's something of a tradition that whenever Terry Hoffmann graduates from State, he gets more than a degree. In spring 2001, Hoffmann received his degree in health promotion as well as his ROTC commission and his bars as a second lieutenant in the U.S. Army. In spring 2012, he received his doctor of pharmacy degree and another mark of distinction, the mortar and pestle that signifies Hoffmann's selection for the Distinguished Graduate Award.

Contacted a few days after the hooding ceremony where the award was presented, Hoffmann was still a little dazed by the honor.

Every time he walks past the award, Hoffmann says he asks himself, "Is that really my name on the base? It's still a humbling feeling to be recognized."

Hoffmann's award, given by the college to the graduate who excels in multiple areas, wasn't his first distinction of the night. He was also chosen by his peers to give the student address at the hooding ceremony.

From the beginning of his second tenure at State, Hoffmann stood apart from his classmates. He started his pharmacy studies four years ago at age 30 with two tours in Iraq under his belt as a platoon medical leader, overseeing the reconstruction of gutted Iraqi hospitals and clinics, and mastering the logistical skills for creating supply convoys that would meet the operational needs of six battalions in the field.

Hoffmann says he jokes with friends that it took two tours in Iraq to build up

the courage he needed to apply for pharmacy school.

Next stop: VA Nashville

With his newly minted degree, Hoffmann's next stop will be the Department of Veterans Affairs Tennessee Valley Healthcare System in Nashville. Hoffmann admits that his experience in the military was at least partially responsible for his selection of a residency in the Veterans Affairs system.

"It did have an element that drew me to the VA," Hoffmann says of his military experience and his own use of the VA health care system. "I've seen how the VA has positively evolved and changed their approach in health care delivery to our nation's veterans."

Another aspect of the position that drew Hoffmann to Tennessee was the variety and flexibility in the yearlong residency.

"It's a highly intensive training experience," Hoffmann says, noting that during his residency he will receive an overview of the entire system.

Three options for specialization include ambulatory care or outpatient care, talking to veterans to review and optimize their medications; geriatric care, managing the medication needs of the elderly in long-term care facilities; or a hospital setting, managing medication regimens of hospitalized patients.

"It lets you get your feet wet before you go on to specialize in an area that fits your interests," Hoffmann says.

A reunion and a farewell

Another draw to the residency in Nashville was Hoffmann's familiarity with the area. Originally from Sleepy Eye, Minn., Hoffman and his wife, Natalie, were both stationed at nearby Fort Campbell so they still have friends in the area as well as his wife's sister.

While he's looking forward to the new adventure in Nashville, Hoffmann says he'll miss his classmates and professors.

"It's getting to know people that makes the experience more tangible," Hoffmann says.

After all that experience, it's the advice of an Army sergeant major that will help guide Hoffmann into his new profession. Talking to a room full of newly commissioned officers, the sergeant major told them to "remember where you come from." According to Hoffmann, the lesson for the new leaders was to always remember that they were all once followers.

Hoffmann has modified that advice for his work in pharmacy, saying he always wants to remember to ask himself, "If I was a patient, how would I want to be treated?"

Dana Hess

Terry Hoffmann, right, is honored by Dean Dennis Hedge as the Class of 2012 Distinguished Graduate at the May 4 hooding ceremony. The Army veteran is beginning his second career with the Veterans Affairs in Nashville, Tenn.



Achieving Excellence

in the College of Pharmacy at South Dakota State University

Opportunities and successes continue to make the College of Pharmacy at South Dakota State University an exciting place to learn about pharmacy. The college would like to highlight some of the accomplishments that have come to the forefront in the past year.

These include:

- Continued growth in students studying abroad with more than a quarter of the students participating in these activities in the last six years;
- The third highest pass rate in the nation on the pharmacy licensure exam based on data from 2007 to 2011;
- A dramatic increase in the intellectual property innovations receiving patents and invention disclosures;
- Success and growth based on the Pharmacy Curriculum Outcome Assessment results of the second year pharmacy students;
- Initiation of multiple interprofessional experiences; and
- A leadership program that has two-thirds of the students planning to participate in pharmacy organizations after graduation.



Students Travel Abroad to Learn About Pharmacy and Health Care

Students at South Dakota State University College of Pharmacy may spend an advanced pharmacy practice experience in another country learning about health care and often participating in the health care process. During the last six years, 105 students (27.5 percent of all graduates) have traveled to Denmark, Ireland, England, France, Honduras, or Australia.

Experiences have included:

- Providing pharmaceutical care in remote villages of Honduras.
- Talking with community pharmacists in European countries.
- Observing how health care systems function in other countries.
- Examining the nature of pharmacy education outside the United States.
- Learning about challenges facing the profession of pharmacy in other countries.

Interest in these opportunities has grown from 11 students participating in 2007 to 18 in 2012, an increase of 63.6 percent. Continued growth is expected in these study abroad experiences.

Advanced Pharmacy Practice Experiences in Other Countries

Year	Country/Continent	Students	Faculty*
2012	Australia	3	
	Europe	9	1
	Honduras	6	
2011	Europe	10	1
	Honduras	7	
2010	Europe	13	1
	Honduras	6	
2009	Europe	8	1
	Honduras	11	
2008	Europe	16	2
	Honduras	5	
2007	Europe	7	1
	Honduras	4	
TOTAL		105	7

*Preceptors oversee all other experiences

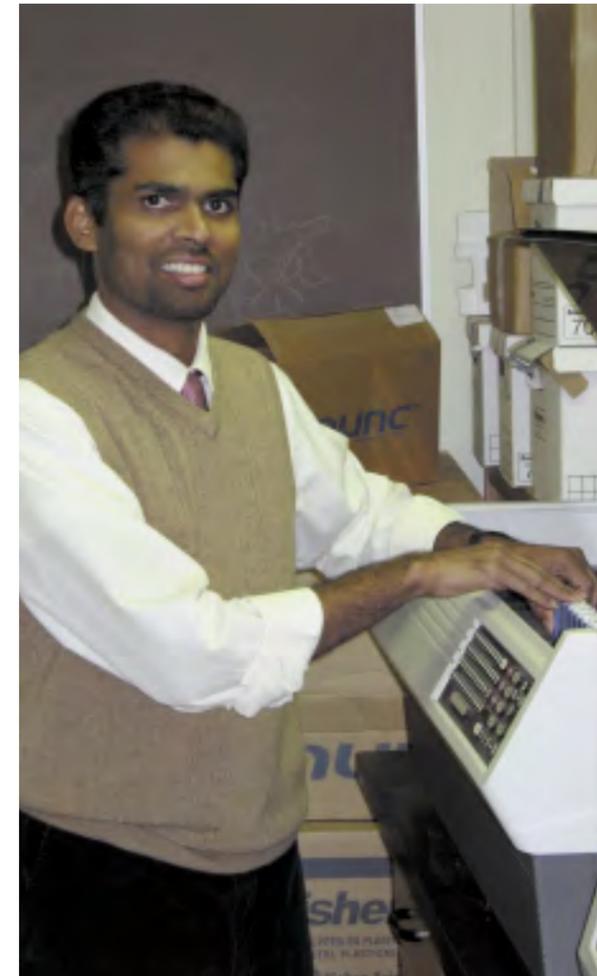
South Dakota State University Graduates Have the Third Highest Pass Rate in the Nation

During the last five years, 311 South Dakota State University pharmacy graduates have taken the North American Pharmacist Licensure Examination (NAPLEX) and 309 have passed (99.36%). Only two colleges in the nation have a higher pass rate for this time frame.

- In addition, SDSU's pass rate exceeds the average for colleges in the region (97.85 percent)¹ and peer colleges (96.57 percent)².
- Since the National Association of Boards of Pharmacy started publically reporting NAPLEX results, the college has been among the top 10 colleges and has continued to move up in the rankings.

Years Reported	National Ranking
2007-2011	3rd
2006-2010	4th
2005-2009	5th
2004-2008	6th
2003-2007	6th
2002-2006	8th

1. Creighton, Drake, University of Iowa, University of Minnesota, University of Montana, University of Nebraska, North Dakota State University, University of Wyoming
 2. Ferris State, North Dakota State University, University of Missouri, University of Nebraska, University of New Mexico, Washington State University



Pharmaceutical Science Faculty Members' Intellectual Property Increases Rapidly

The Department of Pharmaceutical Sciences along with Sanford Research was awarded funding for Translational Cancer Research Center by the South Dakota Governor's Office of Economic Development as one of the 2010 Research Initiative center. One of the expectations of this Center is to perform research leading to the commercialization of products/processes for the economic development of the state. This Center has produced the following innovations:

- Formation of Tranzderm Solutions, a start-up company
- Two platform technologies
- A novel prodrug for the improved treatment of head and neck cancer

Additional intellectual property successes have been achieved over the last five years (Table).

Year	Patents	Provisional Patents	Invention Disclosures
2012	0	2	2
2011	2	1	1
2010	0	2	2
2009	2	0	4
2008	1	0	0
TOTAL	5	5	9

Pharmaceutical Science faculty members are diligently working on projects which will lead to more invention disclosures, provisional patents and patents in addition to peer reviewed publications in respected journals.

Pharmacy Curriculum Outcome Assessment: A National Exam to Evaluate Curricular Success

The National Association of Boards of Pharmacy has created the Pharmacy Curriculum Outcome Assessment (PCOA) to help schools evaluate their curricula. The exam includes 220 questions covering topics in the four areas of basic biomedical sciences, pharmaceutical sciences, social/behavioral/administrative sciences, and clinical sciences.

Twenty-eight colleges administered the exam in 2012. The College of Pharmacy at SDSU administered the exam to second year pharmacy students. A total of 831 second year students took the exam from schools across the country.

For the third year, the College of Pharmacy exceeded the national average on the exam and achieved a high percentile ranking.

This data has helped guide curricular improvements, and the College looks forward to future evaluations.

PCOA Trends at South Dakota State University

Category	SDSU	National	SDSU Percentile
	Scale Score	(% correct)	
2012	357 (67)	328 (62)	64
2011	343 (60)	311 (53)	69
2010	339 (57)	321 (54)	62

Spring Convocation



Students learn from expert on helping a foreign country

It was a mutual admiration society at the College's Spring Convocation April 11 in the Volstorff Ballroom at the University Student Union.

The keynote speaker, Kenneth Walker, was just as impressed with the students he addressed as they were concerning his message on foreign health-care intervention.

"Dr. Walker's presentation was good in the fact that you are seeing an application internationally," says Corey Hunter, a third-year professional pharmacy student from Gillette, Wyo.

"When he emphasizes what he's doing in a small country, he's also talking about how to do small things here. We've been trying to do rural outreach programs here with some of the things he talked about."

Walker, professor of medicine and associate professor of neurology at Emory University and deputy chief of medicine at Grady Memorial Hospital in Atlanta, spoke on "The Health-Care Work Force in Developing Countries of the 21st Century."

"It was really interesting for me, because last summer I spent three weeks in Africa," points out first-year student Ashley Weber from Armour. "I was exposed to their health-care problems and lack of health care, so it was interesting to get more information and he re-enforced some things to me about health care."

Walker is co-director of the Atlanta-Tbilisi Health Care Partnership, a collaborative effort between institutions in the independent nation of Georgia and their Atlanta counterparts.

Established in 1992, the partnership contributes medical expertise, manpower, and supplies to Georgia, whose health care and medical systems have been devastated by civil war and economic crisis since the dissolution of the Soviet Union.

Impressed with audience

Under Walker's leadership, more than 20 teams of Emory faculty and staff have traveled to Georgia to assess and address health inequities, and dozens of Georgian medical students have come to train at Emory's School of Medicine.

"Poor health is pervasive throughout the world, from rural counties and inner cities

in the United States to developing countries," he says. "The work that my colleagues and I have done in the country of Georgia serves to illustrate that point."

"Emory has been deeply involved in health-care reform, AIDS, tuberculosis, nursing, emergency medicine, and health-care administration in Georgia.

"Ethnic warfare and separatism have played a large role in the nation's health care," continues Walker, who notes the country "is a fertile environment" for establishing collaborative and sustainable development programs in regions characterized by diversity and instability.

Walker, who was named an honorary citizen of Georgia in 2004, gives speeches about the ongoing work in Georgia several times a year around the country, but on this particular occasion, feels his talk on the Brookings campus hit home due to the nature of the listeners and the panel discussion that followed, he says.

"I thought in an overall sense that this is one of the best educational enterprises that I've ever seen. The faculty members are bright, interested, talkative, and the students showed no sign of intimidation—in fact the exact opposite.

"They are bright, articulate young people who are interested in outreach activities, community work and other people. I was

just extremely impressed. They express themselves very well."

Reservation internship

Although it's not overseas, Ashley Potter, a first-year student from Hector, Minn., will get a taste of Walker's message when she does an internship this summer on the Pine Ridge Indian Reservation through Indian Health Services.

"I realize it's not international, but it's a totally different culture with totally different problems," she says. "Apparently, it's been one of the poorest counties in the country for many years, and their health-care problems are more consistent with those seen in Third World countries."

Anticipating her pending work on the reservation, Potter greatly appreciated Walker's presentation.

"I was very impressed," she says. "I think international problems are something we have in the back of our mind and we don't see how it's directly happening and what the direct issues are.

"Dr. Walker made a great point in that you can take the little things you learn and everyday work or experiences and apply them — it's not impossible."

Kyle Johnson



Ashley Potter, left, and Colleen O'Connell, first-year students in the professional pharmacy program, visit with Kenneth Walker, after his keynote address at the Spring Convocation in April. Walker, professor of medicine at Emory University in Atlanta, centered his message on health-care intervention in a foreign country.

Interprofessional Education Flourishes

The College of Pharmacy at South Dakota State University is achieving significant gains in the area of interprofessional education (IPE) activities.

- Six new interprofessional activities/experiences have been added or made available since 2009.
- Collaborators now include medical, nursing, physical therapy, occupational therapy, social work, physician assistants, dietician, alcohol and drug studies counselors, speech language pathology and audiology, dental hygiene, health services administration and medical laboratory science students.

Activities are integrated throughout the curriculum and are designed to sequentially develop team skills.

- Optional activities allow students to expand and tailor their interprofessional experience.

The College is committed to the development and evaluation of IPE to ensure that the graduating pharmacy students are prepared to work with other health care professionals to provide safe and effective patient or population based care.

Interprofessional Education Activities	Year of Pharmacy Student	Portion of students	Year Initiated
Advanced Pharmacy Practice Experiences (APPEs)	P-4	100%	From beginning Of program
Palliative Care	P-4	14 per year	2005
Interprofessional Training Workshop	P-3	50%	2010
SD Disaster Training Workshop	P-3	100%	2010
Virtual World Interprofessional Simulation - Second Life	P-2	100%	2011
SDSU College of Pharmacy and Nursing Interprofessional Simulation	P-2, P-1	100%	Starting in 2013
Rural Education Healthcare Program Students (REHPS)	P-2	6 per year	2011
Institute for Healthcare Improvement (IHI) Open School	P-4, P-3, P-2, P-1	Chapter Participation	2011

Leadership by Design

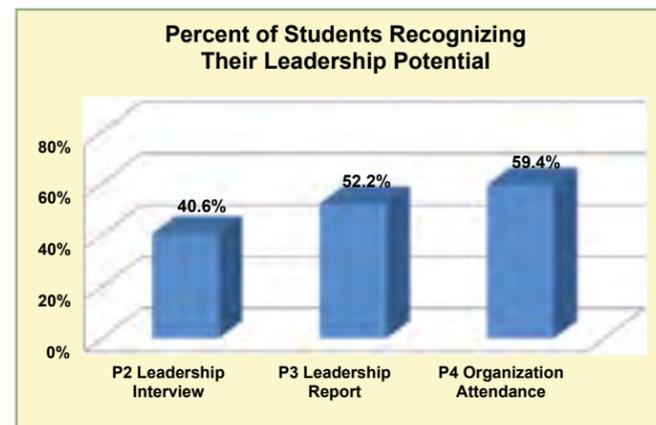
Students in the PharmD program go through a set of experiences designed to help develop their leadership talents.

- P2 - Leadership Interview — Leadership begins with students recognizing their responsibility to serve as a leader and the benefits of serving as a leader. This activity is designed to foster understanding of these aspects by requiring students to interact with a leader in pharmacy.
- P3 - Leadership Report — Students are required to describe two leadership experiences during the PharmD program and reflect on the experience.
- P4 - Professional Meeting Activity — Students attend and reflect on a professional organization meeting in order to develop an appreciation for the role pharmacy organizations play in the profession.

Upon completion of these experiences:

- 66.7 percent of students hoped to participate in a pharmacy organization meeting (district or regional)
- 73.9 percent plan to attend a state pharmacy convention

The profession of pharmacy needs pharmacists that are engaged and willing to serve. In this way, these curricular elements are helping to shape the future.



Conclusion

These highlights represent only a glimpse into the innovations and successes occurring within the College of Pharmacy at South Dakota State University.

The college looks forward to continued work in these and other areas.

Record crowd witnesses White Coat event

From Jacqueline Adams to Amber Zemlicka, the P1 students that form the Class of 2015 hit its first milestone en route to becoming professional pharmacists.

As the students neared the end of their first year of pharmacy education, Friday evening, April 20, was set aside for the 80-member class to receive their personalized, bright white, just-off-the-rack professional laboratory coat.

The event drew an estimated 750 family, friends and faculty members to the Volstorff Ballroom on campus.

Dean Dennis Hedge called it by far the largest attendance for the event, which has been held for nine years at SDSU. The significance wasn't lost on the students.

"Everybody always compares it to graduation. To me, it's more important because it marks the beginning of something. To me, it's more meaningful," says Eric Robinson, of Kearney, Neb., whose White Coat Ceremony fan club included his parents, a brother, a niece and a nephew.

"This is drawing to a close my previous years of college and moving on to something more professional," he adds.

A new use for chemistry

Robinson arrived at State right out of Kearney High School, but for Kirre Wold, the journey has been longer. The Rapid City Central graduate went to college in her hometown and received a chemistry degree from South Dakota School of Mines in 2009.

She went to work as a hydro tech at Black Hills National Forest but found that water quality wasn't for her.

Then heritage came into play. Wold has an aunt, uncle and cousin that are graduates of the SDSU pharmacy program. So she prepared to follow them. Wold got a job in the Rapid City Regional Hospital pharmacy and applied for admission in the pharmacy school.

It was 1 ½ years before she was accepted and nearly another year passed before she could don her white coat.

The White Coat Ceremony "solidifies that I made the right choice. I like working with people and have the knack for chemistry. I'm excited to use my ability to help people with their medical condition," says Wold, who this spring was named a student representative to the South Dakota Society of Health-System Pharmacists board.

Kudos for Karel's career continue

The future pharmacists heard a succinct message from a graduate who has years of experience to summon.

State grad Gary Karel '73 was honored at the Health-System Pharmacists' annual meeting March 30-31 with the inaugural Gary W. Karel Lecture Award for outstanding contributions to the practice of health-system pharmacy.

That's right. Karel is the namesake of the award, which is considered the highest lifetime achievement honor in South Dakota health-system pharmacy practice.

Karel served 26 years as director of pharmacy at Sanford USD Medical Center. For the five years previous to that he was assistant pharmacy director at what was then known as Sioux Valley Hospital. Since retiring from Sanford in July 2011, he has been an inspector for the South Dakota Board of Pharmacy.

But rather than tell war stories or recount his honors, Karel's message focused on the key traits of the white coat.

White coat: a powerful symbol

Karel, of Sioux Falls, spoke about trust, relationship with the patient, ethics, leadership and compassion. His emphasis was on trust.

"As you wear the white coat, you are in essence saying to others 'trust me.' As you know, pharmacists are one of the most trusted professionals in America. Trust involves honesty and ethics.

"Patients, physicians and others will have the right to expect the best from you because over the next four years you will become skilled and knowledgeable in matters related to medications, diseases and health. The decisions you make and the words you use will carry significant weight.

"(Patients) will depend on you to help solve their problems and to protect them. If you keep these tenets in mind, your ability to care for patients will be profoundly enhanced."

Karel, who graduated 20 years before any school was doing white coat ceremonies, gave this challenge:

"As you step forward into your white coats, do so with confidence, but be humble."

Dave Graves

Student organization awards

Last province conclave highlights student news



It was a closing to something big and a beginning to something very exciting.

That's how second-year professional student and brother Megan Bechen

described the last conclave of Province VIII that was hosted by the brothers of Gamma Kappa April 20-21 in Brookings.

It was one of several pharmacy student organizations making news this past school year.

Gamma Kappa is the local chapter of **Kappa Psi International**, which is divided geographically into regions known as provinces.

With the growth in the number of collegiate and graduate chapters, Province VIII was dissolved and will be part of the Northern Plains Province that includes current members of Province VIII (University of Minnesota, Minnesota-Duluth, Drake, Iowa, North Dakota State, Creighton, University of Nebraska Medical Center, SDSU and graduate chapters from North Dakota, Nebraska, Iowa, Minnesota, South Dakota) along with two additional chapters: the University of Wisconsin-Madison and the Wisconsin graduate chapter.

The first meeting of the Northern Plains Province will be held in Omaha, Neb., in fall 2012.

"While we will be beginning the new province and a new constitution, the overall meaning of the province will not change," says Bechen. "Kappa Psi has a strong foundation and our goals will be the same. We're looking forward to welcoming the new chapters and starting new traditions together."

Winning streak continues

Gamma Kappa made headlines in other areas. For the third consecutive year, and fifth overall, the chapter received the Frank H. Eby Scholarship Tray Award.

The award goes to the collegiate chapter of **Kappa Psi** with the highest percentage of its eligible members receiving scholarship honor certificates for the academic year in question. It's calculated using the number of brothers in their

second and third professional years earning 3.0 grade point averages during the fall and spring semesters. There are 82 Kappa Psi collegiate chapters in the United States and Canada.

In addition, Gamma Kappa was named the sixth best chapter in the nation based on a judging of annual reports that grades chapter activities, community service, public activities and organizations that members belong to and offices they hold.



Members cite president

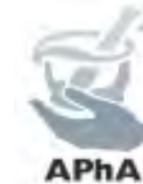
Phi Lambda Sigma's Member of the Year was Walker Darkow, a third-year professional student from Owatonna, Minn., who served as president of the

chapter.

"I was surprised," says Darkow. "It's always an honor, especially coming from a vote by your fellow members."

Darkow, who received a certificate and a gift card, points to the annual bowl-a-thon for cystic fibrosis as a major highlight during his one-year term in office that ended January 2012.

"We raised the most money ever for that particular event," he says. "We also did a Hoops for Hunger for the Brookings Food Pantry and that went very well. All in all, it was a very successful year."



Video honored

The **American Pharmacists Association-Academy of Student Pharmacists** received honorable mention in the PharmFLIX

competition, which evaluates videos produced by academy chapters on various pharmacy topics.

This year's theme was "Share Your Story," which had students create a video sharing why they selected pharmacy as a career. The video was shown in March at the academy's national meeting in New Orleans.

At the May 4 Pharmacy Hooding Ceremony, the senior recognition award was given to Kayley Lyons, who graduated with her Pharm.D. The award recognizes a graduating student who has contributed the most to the American Pharmacists

Association-Academy of Student Pharmacists chapter during his or her entire pharmacy education. Lyons served as chapter president in 2010.

Members of the year

At the Pharmacy Spring Convocation in April, five members of the **Academy of Student Pharmacists** were honored as members of the year. They were: Tom Sundling (pre-pharmacy), Aaron Larson (first professional year), Megan Bechen (second professional year), Andrea New (third professional year) and John Weitgenant (fourth professional year).

Kappa Epsilon honored Dana Merkel as member of the year, while Kacy Magnus was saluted as new member of the year. The pre-pharmacy member of the year award went to Amber Olson.



The **American Association of Pharmaceutical Scientists'** member of the year award was given to Satya Sai Sadhu. The association also presented awards from the Life Sciences Graduate Student Research Symposium. They were: Ruth Guillermo (first place senior category), Jiashu Xie (second place senior category), Swetha Pothula (third place senior category), Pratik Muley (first place junior category), Kaushalkumar Dave (second place junior category) and Kangming Chen (third place junior category).

Kyle Johnson



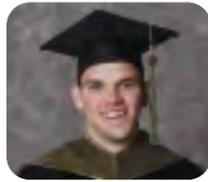
Students in the 80-member Class of 2015 recite the Pledge of Professionalism at the conclusion of the ninth annual White Coat Ceremony at Volstorff Ballroom.

Sixty-nine
Success stories

Meet our fifteenth class of six-year
Doctor of Pharmacy graduates



Jenifer Abrahamson
Ashton
Pharmacist at Kmart



Ian Alverson
Madison
Pharmacy manager at
Madison Community Hospital



Ashley Barta
Sioux City, Iowa
Pharmacy resident, Sanford,
USD Medical Center



Elizabeth Batchelder
Fairbault, MN
Pharmacist at Walmart



Lisa Becker
Yankton
Pharmacy resident at Avera
McKenna Hospital and
University Health Center



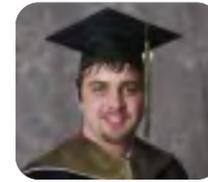
Elizabeth Bohls
Rapid City
Staff pharmacist At Winner
Regional Healthcare



Sara Krueger
Blue Earth, MN
Pharmacist, Sanford
Worthington Medical Center



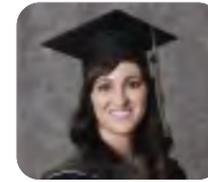
David Laffrenzen
New Ulm, MN
Ambulatory care resident at
Marshall Regional Medical
Center



Erik Lambrechts
Milbank
Community pharmacy
resident, Liebe Drug



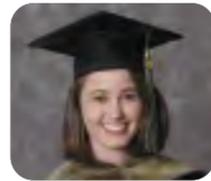
Ashley Landenberger
Pierre
Staff pharmacist at Shane's
Pharmacy



Rachel LeBrun
Dell Rapids
Pharmacist at Lewis Drug



Lance Linderman
Timber Lake
Pharmacist at State Veterans
Home



Kayla Borgstrom
Lino Lakes, MN
Pharmacist at CVS Pharmacy



Amy Brandner
Pierre
Pharmacist at Cigna



Caitlin Brannen
Denison, IA
Pharmacist at CVS Pharmacy



Natalie Brown
Slayton, MN
Pharmacist at Lewis Drug



Reina Bruinsma
Beresford
Pharmacy resident at Rapid
City Regional Hospital



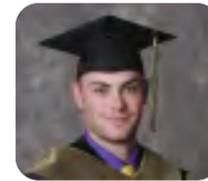
Anna Cutler
Sioux Falls
Pharmacist at Snyder Drug



Sarah Luettel
Adrian, MN
Pharmacist at Avera Heart
Hospital



Kayley Lyons
Mankato, MN
Pharmacy administration
resident at University of North
Carolina



Michael Magbuhat
Rapid City
Pharmacist at Rapid City
Regional Hospital



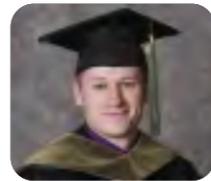
Timothy Magnuson
Brookings
Pharmacy resident at Avera
McKenna Hospital and
University Health Center



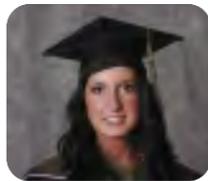
Jessica Nelson
Arlington
Community pharmacist at
Northside Pharmacy



Lindsay Neugebauer
Mitchell
Pharmacist at Lewis Drug



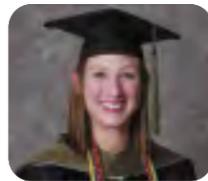
Ryan Durant
Rapid City
Float pharmacist at Walmart



Jessica Eischeid
Carroll, IA
Pharmacist at Hy-Vee



Charles Elroy III
Depoe Bay, Oregon
Pharmacist at CVS



Marisa Erlandson
Spirit Lake, IA
Pharmacist at Lewis Drug



Kara Estabrook
Yankton
Pharmacist at Genoa
Healthcare



Scott Fjeldheim
Herreid
Undecided



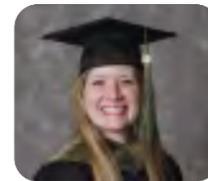
Sarah Neuhauser
Pierre
Pharmacy manager at Kmart



Jonathon Nickolas
Aberdeen
Pharmacist at Rapid City
Regional Hospital



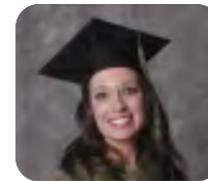
Laura Nielsen
Wilmar, MN
Undecided



Melissa Olson
Bruce
Pharmacy resident at Rapid
City Regional Hospital



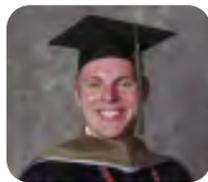
Stephanie Petersen
Brookings
Float pharmacist at Target



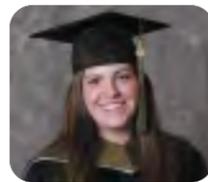
Kelsey Postma
Ireton, IA
Pharmacy resident at St.
Louis VA



Tracy Haan
Aberdeen
Float pharmacist at Walmart



Timothy Habeck
Cherokee, IA
Specialty pharmacist at Cigna



Katie Hagen
Milbank
Pharmacist at Target



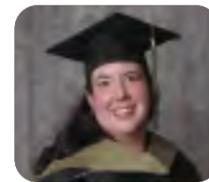
Sean Harms
Albert Lea, MN
Pharmacist at Medicap
Pharmacy



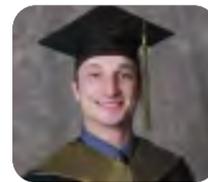
Elliot Hinricher
Huron
Pharmacist at Huron Regional
Medical Center



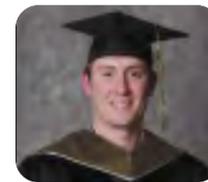
Nicholas Hite
Rapid City
Undecided



Marie Potthoff
Sturgis
Pharmacist at Kmart



Ryan Rekow
Langford
Staff pharmacist at Sanford
Medical Center



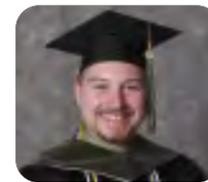
Chris Reynolds
Sheridan, WY
Pharmacist at Omnicare



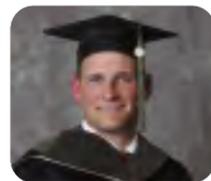
Andrea Roche
Spearfish
Pharmacy Resident at Avera
McKenna Hospital and
University Health Center



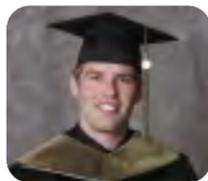
Sara Rosburg
Estherville, IA
Pharmacist at Kmart



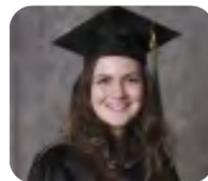
Joseph Rose
Owatonna, MN
Pharmacy Resident at Sioux
Falls VA



Terry Hoffmann
Sleepy Eye, MN
Pharmacy resident at VA
Tennessee Valley Health Care
System



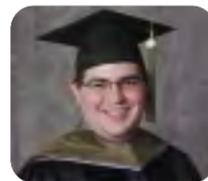
Joshua Holstein
Corsica
Pharmacist at Landmann
Jungman Memorial Hospital



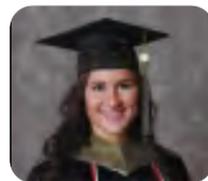
Carrie Jansen
Foley, MN
Pharmacy resident at the VA
Black Hills Healthcare System



Stephanie Jones
Madison
Pharmacist at Walgreens



Brandon Kirchner
Sioux Falls
Pharmacist at Yankton
Medical Center



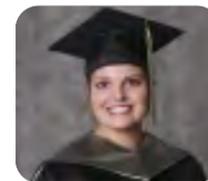
Ashley Kling
Harrisonville, MO
Undecided



Randi Sandbulte
Sioux Center, IA
Pharmacy Resident at Sioux
Falls VA



Amanda Schmig
South Shore
Pharmacy resident at Salem
(Va.) VA Medical Center



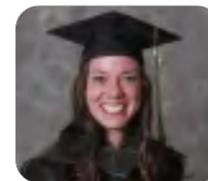
Christine Schroeder
Brooklyn Park, MN
Pharmacy Resident at St.
Cloud VA



Jennifer Sheeley
Volga
Pharmacist at Walmart

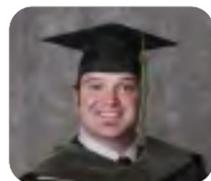


Hillary Siebels
Britton
Pharmacist at Walmart

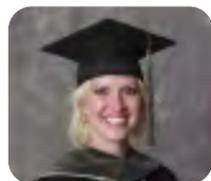


Brianna Siefkes
Bath
Clinical pharmacist with
Indian Health Services

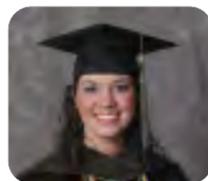
New pharmacy graduates



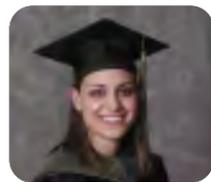
Clay Sloan
Belle Fourche
Pharmacist at Lynn's
Dakotamart



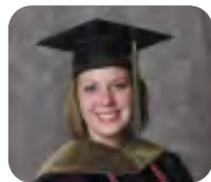
Corrie Thurmer
Spirit Lake, IA
Pharmacy Resident at
Sanford USD Medical Center



Jillian Tucek
Brandon
Staff Pharmacist at HyVee



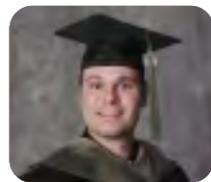
Rhianna Tuchscherer
Milbank
Pharmacy resident at
Beaumont Health System



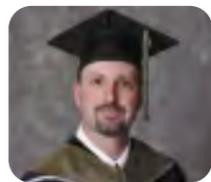
Emily Vitek
Yankton
Retail pharmacist at St.
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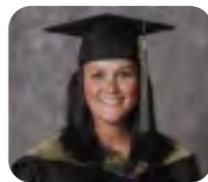
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Sheffield, IA
Pharmacist at HyVee



John Weitgenant
Worthington, MN
Pharmacist at Target



Greg Wollman
Freeman
Undecided



Erica Zimprich
Chamberlain
Clinical Pharmacist with
Lower Brule Indian Health
Service

Awards presented at hooding ceremony

APhA-ASP Senior Recognition Certificate:
Kayley Lyons, Mankato, MN

Avera Behavioral Health Center and Sanford School of Medicine
Award for Outstanding Achievement in Psychopharmacology:
Elliot Hinricher, Huron

Facts and Comparisons-Award of Excellence in Clinical
Communication:
Melissa Olson, Bruce

Lilly Achievement Award:
Stephanie Jones, Madison

Merck Award:
Jenifer Abrahamson, Ashton, and **Reina Bruinsma**, Beresford

Mylan Excellence in Pharmacy Award:
Randi Sandbulte, Sioux Center, IA

Patient Care Award:
Corrie Thurmer, Spirit Lake, IA

Pharmacist's Letter-Natural Medicines Comprehensive Database
Recognition Award:
Anna Cutler, Sioux Falls

Teva Pharmaceuticals USA—Outstanding Student Award:
Ashley Barta, Sioux City, IA

Preceptor of the Year

Top preceptor doesn't shy away from tough conversations

Out of necessity, Amy Doten spends plenty of time on the sidelines as a sports fan. On her home court, however, she has proven to be an indispensable coach.

With three young sons, Doten spends much of her free time going to athletic events. As the pharmacy program manager and clinical coordinator at the Black Hills Veterans Affairs Healthcare System at Fort Meade, Doten's ability to work with pharmacy students has led to her selection as the Preceptor of the Year. "Amy's service as a preceptor has been invaluable to our students and the College of Pharmacy," says Bernie Hendricks who oversees the preceptor program. "She takes her responsibility as a preceptor seriously."

Originally from Spearfish and currently living in Sturgis with her husband and sons, Doten graduated from the University of New Mexico in 2002, completed a managed care residency at HealthPartners in Bloomington, Minn., and started working at the Black Hills facility in 2003. Her work as a preceptor started shortly after her arrival back in South Dakota.

"It just seemed kind of natural to me," Doten says of teaching and helping students. "That's my favorite thing about my job."

Doten works with 10 SDSU students per year as well as students from the University of Wyoming. Part of her responsibility is developing projects for the students.

"I try to pick projects that are helpful to them and to the institution," Doten says.

Preceptor, not friend

Doten explains that she works to make sure that students get something out of the rotation that they can use in their professional life. For example, a student who learns about radiology may choose to work in a retail setting but be able to use that radiology experience to answer questions from patients.

"Everything here is a learning experience," Doten says.

Sometimes that experience can be a little uncomfortable.

Doten doesn't shy away from telling students what she thinks when she sees them developing bad work habits.

"It's important to have conversations with students when they're not performing," Doten says. "I need to be truthful with them about their performance."

Throughout the process, Doten has a clear understanding of her role. "My goal is not to be their friend, it's to be their preceptor," Doten says. "There is a difference."

Rotation instills confidence

Doten's commitment to the program is evident to Hendricks and to the students that she guides.

"She promotes a desire in students to question and learn," Hendricks says, "and she challenges our students to think and critically analyze issues related to disease states and medication therapy problems and solutions to prepare them for their future as pharmacists."

Her students are also appreciative. One commented this year: "My preceptor was incredibly knowledgeable and encouraging, yet pushed her students, and

knows that there is more to patient care than just textbooks. My preceptor really helped my experience become more than I expected for this rotation."

Another student was grateful that Doten had gone "above and beyond while setting up different areas of the hospital that I could see and she always asked for my input. She challenged me to think critically and to try to tie everything that I have learned in pharmacy school together with clinical thinking to come up with the best treatment for patients."

Doten says students are generally impressed with the Black Hills facility, which has more than 20 pharmacists fulfilling a variety of clinical roles. During the course of a day students may be called on to help with many of those duties. "Their typical day is not typical," Doten says.

And, when the rotation is over, Doten hopes her students' new experiences have instilled a healthy dose of confidence.

"They demonstrate to themselves what they can do," Doten says. "They realize, 'Hey, maybe I can do that, too.'"

Dana Hess



Amy Doten, seated, works with South Dakota State University pharmacy students Iman Badawy, left, and Anna Jastorff, right. Doten was chosen by the SDSU College of Pharmacy as the Preceptor of the Year for her work with pharmacy students at Black Hills Veterans Affairs Healthcare System at Fort Meade.

STUDENT NEWS

Nicholas Goodhope, a P2 student from Sturgis, was one of 12 undergraduates to display research projects at the state Capitol Feb. 29. The dozen were chosen from public, private and tribal colleges in South Dakota.

Goodhope's research was done under the oversight of Professor Xiangming Guan. Microtubules are involved in a diverse range of

cellular functions, including mitosis. It is that role that makes them a target for the development of anticancer agents, and has already been used against human melanoma cells.

Goodhope's research was to see if that target would also be effective against other human cancer cells.

Department of Pharmacy Practice



I am pleased to provide you with a report from the Department of Pharmacy Practice. We had a busy spring semester and the summer is moving by quickly with the P4s starting their advanced pharmacy practice experience and preparation for the fall semester.

New positions accepted

I would like to begin by letting you know that Jodi Heins has accepted the new assistant department head position within the department. This

position will be responsible for managing the experiential portions of the curriculum — Advanced Pharmacy Practice Experiences and Introductory Pharmacy Practice Experiences.

Experiential education makes up thirty percent of the professional program curriculum, so having someone in a position to manage this aspect of the curriculum is very important for the college.

In addition, Heins will be responsible for directing the newly established community pharmacy residency program. I look forward to working with Dr. Heins in her new role.

With Heins' transition to her new position, we have replaced her clinical faculty position based at the Sioux Falls VA Healthcare System.

Tarryn Jansen, a 2011 graduate from SDSU, has accepted this position. She will begin in her faculty role in July 2012 after completion of her residency at the Sioux Falls VA Healthcare System. I welcome Dr. Jansen to the faculty and look forward to working with her as she begins her academic career.

Ritchie, Ou leave positions

We had a few faculty leave the College at the end of the contract year to move on to other endeavors. Kristen Ritchie will be relocating to the Omaha area due to her husband being transferred. Her position is in the area of oncology ambulatory care and is based at the Avera Cancer Institute in Sioux Falls. I appreciate Kristen's contributions to the college during the time she was here. We continue to recruit to rehire this faculty position.

Anita Ou also will be leaving this summer after a short time with the college. Ou was offered a faculty position at a top university in Taiwan and will be moving back home this summer. Ou has expertise in the area of pharmacoepidemiology and pharmacoeconomics and we will be seeking approval to rehire this position.

We have been busy preparing for the start of the community pharmacy residency program that started this July at Liebe Drug in Milbank. We are excited at the prospects of this new program and what we hope to achieve in the first year of the program.

Promotions for Van Gilder, Kutscher

Two faculty within the department were successful in the promotion (rank reassignment) process this past year. Deidra Van Gilder was promoted to associate professor effective this summer. Eric Kutscher was promoted to full professor this summer. Congratulations to both Deidra and Eric in their reassignments.

The faculty within the department continue to be productive in the area of research and scholarship. Faculty have been very successful during this past academic year with publications of textbook chapters and many journal articles.

In addition, faculty have presented numerous posters at national meetings throughout the year. I am very proud of the scholarly efforts of the faculty and their contributions in this area. We have also had success with being awarded grants for projects in a variety of areas.

I would like to end by again thanking all of our outstanding preceptors who do an incredible job with our students. Your efforts and contributions are truly appreciated.

*James R. Clem, Pharm.D.
Professor and department head*

Department of Pharmaceutical Sciences



The department is very pleased with the performance of our P2 students on the national Pharmacy Curriculum Outcomes Assessment examination. Our students performed higher than the national average in almost all subject areas. I congratulate the faculty members for providing excellent instruction and support for student success.

Faculty honors

The department was honored to have three faculty members recognized at the Faculty Recognition Day in February by the university. I am extremely honored to receive the Harold and Barbara Bailey Award for Excellence in Academic Leadership.

Associate Professor Omathanu Perumal received the F.O. Butler Award for Excellence in Research. Radhey S. Kaushik, an adjunct faculty in the department, received the Excellence in Mentoring Graduate Students Award.

Teresa Seefeldt was granted tenure and promotion to the rank of associate professor effective fall 2012. Heartiest congratulations to Dr. Seefeldt for achieving an important milestone in her professional career.

Associate Professor Omathanu Perumal and I attended the Minnesota Cancer Consortium in Austin, Minn., in May.

Equipment additions

The department and college have recently invested more than \$300,000 to acquire new equipment for the research laboratories. The department along with other departments on campus received \$150,000 for a laser scanning confocal microscope from Regental Performance Funding Allocations for SDSU.

Student news

Ruth Guillermo successfully defended her Ph.D. dissertation and passed oral examination in April, and graduated in May. She has accepted a postdoctoral position at the University of Colorado School of Pharmacy in Denver.

Guoqiang Ai joined the department as a graduate student in May. Two Fulbright Scholars and three new graduate students are expected to join the department in the fall.

Eleven professional/undergraduate/high school students are working in the research laboratories of

faculty members this summer. Two French interns are joining the department in July. Two students are supported by the Joseph Nelson Undergraduate Mentorship, and the remaining students are supported from grant funding.

Research advancements

Collaboration with Sanford Research on the Translational Cancer Research Center is progressing well. Professor Xiangming Guan and I have filed a joint invention disclosure with Sanford Research, potentially leading to a provisional patent application. Guan, Perumal and Assistant Professor Hemachand Tummala have previously filed provisional patents for their inventions.

Thank yous

I sincerely thank Jolene Landmark and Rita Schulz for their diligent effort for the efficient operation of the department. I thank Brent Meredith for his help in submitting grant applications for the department. I appreciate the cooperation from all faculty members in the department; Dr. James Clem, head, Department of Pharmacy Practice; and support from Dean Dennis Hedge.

*Chandradhar Dwivedi, Ph.D.
Distinguished professor and head*

Assessment report



Evolving fourth-year knowledge assessment

There are key points in the curriculum when it is critical to assess the students' ability to perform practice aspects or demonstrate sufficient knowledge to provide care.

The fourth year (P4) of the curriculum represents a crucial opportunity for students to apply their knowledge and practice their clinical skills. Because it is the final step in their education and all didactic work has been completed, we have sought to

assure students' knowledge base is competent for practice at this point.

In the past we have had students participate in an oral case study. This involved students reviewing a case, preparing a pharmaceutical care plan, and presenting the plan to two faculty members. The high stakes assessment required students who did not pass to remediate and take the oral exam again. Failure on the second try necessitated completion of an additional advanced practice experience.

Limitations to this approach included a very finite examination of knowledge, variations in the case complexity, and a high utilization of faculty resources.

How to evaluate P4 students

Last summer we formed a P4 Assessment Task Force, which was charged with determining the optimal method for evaluating P4 students. The Task Force identified goals of the P4 assessment:

1. Guide students' improvement,
2. Evaluate the curriculum in developing students' knowledge,
3. Assure all students meet a set standard of knowledge,
4. Facilitate students' success on the NAPLEX.

GPA not good indicator of board success

The task force examined a variety of approaches to achieve these goals and settled on a pilot program that involved students taking the Pre-NAPLEX and subsequently completing a set of questions from the American Pharmaceutical Association (APHA) online NAPLEX Review exam question bank.

Evaluation of the students' results from this pilot project showed a modest correlation between both of these exams and the students' grade point average (GPA) ($r=0.43$ for both). This implies that GPA is not a good predictor of who will do well on these exams.

Students who did not pass the Pre-NAPLEX had a higher average score on the APHA exam than students who passed the Pre-NAPLEX (78.2% versus 73.9% correct), suggesting that students studied harder if they struggled on the first exam (Pre-NAPLEX).

New plan puts emphasis on exams

Based on the experience from this pilot year, a final plan emerged for the coming year. Fourth-year students will complete 800 questions from the APHA NAPLEX online review question bank during the summer and fall. This will serve as a formative assessment process with the online resource providing study materials and guidance for improvement in students' areas of weakness.

In the spring, all P4 students will complete a Pre-NAPLEX exam. Students not meeting a preset pass score on the Pre-NAPLEX will be required to remediate and then be retested with the APHA NAPLEX review exam questions. Failure on the second exam again will necessitate an additional advanced pharmacy practice experience.

The P4 assessment process will continue to be examined to assure it meets the intended goals. We anticipate that there will be adjustments and changes over time to improve the process. Future plans are to include more skill based assessment in the P4 year.

*Jane R. Mort,
Associate dean for academic programs*

Donor's gratitude expressed in scholarship

"I'm impressed he has stretched himself philanthropically to do what he feels is right for the college and the university. I have deep admiration of his commitment to SDSU."

Dean Dennis Hedge

The College of Pharmacy admits 80 students each year. It's a relatively small class with a voracious appetite for scholarships.

Because of the program's high standards and the academic achievements of the students who apply, virtually all of them are eligible for Jackrabbit Guarantee scholarships through the P2 year.

One pharmacy alumnus has done his best to make sure that pharmacy students have the scholarships they deserve.

Bill Darrah '96 took advantage of the 2010 Challenge that offered matching funds from an anonymous donor to fund scholarships. Darrah used the matching funds to create three one-time \$1,000 Jackrabbit Guarantee scholarships as well as create a \$25,000 endowment that will fund another scholarship in perpetuity.

While Darrah's efforts have made an impression on the college, they don't impress the donor.

"When I consider how much my education has radically changed my life it does not feel like I have returned that much," says Darrah of Onawa, Iowa. "I am very grateful for the opportunities that my education has given to me."

The college begs to differ.

"All gifts are appreciated," says Dean Dennis Hedge, "no matter what the size. And Bill's generosity has been significant. I'm impressed he has stretched himself

philanthropically to do what he feels is right for the college and the university. I have deep admiration of his commitment to SDSU."

That commitment got its start when Darrah was in his 30s and had been working in a pharmacy in Columbia, Mo., for six years. Getting a pharmacy degree was the only way to move up the pay scale.

A co-worker with a degree in biology was also looking into pharmacy schools but couldn't find a program that suited him.

"He gave me his applications," Darrah says.

After getting accepted at SDSU, a spring visit to campus clinched the deal for Darrah.

"I came for a visit in May and the weather was just so pleasant," says Darrah, who didn't miss Missouri's humidity. "I knew the winters would be brutal, though."

At times the pharmacy courses were as tough as the winters for Darrah who, like many students, was challenged by the rigorous curriculum.

"Dr. Chappell stood by me," Darrah says. "I've always been very grateful for that."

For Darrah, that gratitude manifested itself in endowing a scholarship.

"I feel very fortunate to have gotten a degree," Darrah says. "I just want to make it possible for someone else."

The philosophy that guide's Darrah's generosity is a simple one.

"I either believe I'm blessed or I don't," Darrah says. "It's the least I can do."

Dana Hess



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 Bay M. Wu
 Kevin G. Wurtz
 Yankton District Pharmacy Association
 Kim A. Youngsma
 Margaret A. Zard
 Scott D. and Melaine Zeigler
 Yan Zhang
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Nominations requested for the Distinguished Pharmacy Alumnus Award

The College of Pharmacy Advisory Council requests nominations for the Distinguished Pharmacy Alumnus Award. This award recognizes a graduate of the SDSU College of Pharmacy who has served and advanced the profession of pharmacy and has been involved in community service.

The Advisory Council requests nominations come from a colleague in the profession and include the following:

1. A brief cover letter explaining the nominee's contributions to the profession of pharmacy (past and continuing) and ways the individual has shown a commitment to the profession and the community.
2. A brief biographical sketch (resume or curriculum vitae would be helpful).
3. An addition letter of support from a colleague or a member of the community.

Send materials to: Dan Hansen, SDSU College of Pharmacy, Box 2202C, Brookings, SD 57007-0099; or by e-mail at dan.hansen@sdsu.edu. The annual deadline for submitting nominations is March 1, 2013. The College of Pharmacy Advisory Council will select an award winner from the nominees based on the above criteria.

The award will be presented at the annual College of Pharmacy Scholarship Luncheon. Nominees not selected for the award are still eligible for three years following the nomination.

Calendar of Events 2012-2013

- Aug. 28** P1 Orientation – SDSU Student Union
- Sept. 21-22** South Dakota Pharmacists Association Annual Convention – Deadwood
- Sept. 29** College Advisory Council Luncheon – SDSU Student Union
- Sept. 29** College of Pharmacy Scholarship Luncheon – SDSU Student Union
- Oct. 26** College Development Council
- Oct. 27** Hobo Day
- Oct. 29** Research Day/Keo Glidden Smith Fall Convocation – SDSU Student Union
- Nov. 2-4** Kappa Psi Fall Conclave – Omaha, Neb.
- Nov. 13-15** Pharmacy Days 2012
- Dec. 2-6** American Society of Health-System Pharmacists Midyear Clinical Meeting – Las Vegas, Nev.
- Jan. 13-17** Pharmacy Phonathon
- Jan. 30-31** Legislative Days
- March 1-4** American Pharmaceutical Association/Academy of Student Pharmacists Annual Meeting – Los Angeles
- April 10** Spring Convocation – SDSU Student Union
- April 10** College Achievement and Recognition Program – SDSU Student Union
- April 12-13** South Dakota Society of Health-System Pharmacists Annual Meeting – Rapid City
- April 12-14** Kappa Psi Spring Conclave – Des Moines, Iowa
- April 19** White Coat Ceremony – SDSU Performing Arts Center
- May 3** Hooding Ceremony – SDSU Performing Arts Center
- May 4** Graduation

Phonathon offers funding, lessons

The annual phonathon is a key fundraising event for the college, but Dean Dennis Hedge says there's more going on than collecting pledges.

"The phonathon is also a very valuable opportunity to create a philanthropic culture among our students," Hedge says. "Getting students involved serves us well."

There were 99 pharmacy student volunteers making the calls during the phonathon. Their participation, according to Hedge, helps them make the connection between gifts from alumni and opportunities for students such as the ability to attend a national meeting or listen to a noted speaker on campus.

"It helps them understand the importance and value of alumni and friends of the college who give their support. Without such support, many academic experiences would not be available to them," Hedge says.

This year's phonathon brought in \$86,321, down about 6 percent from last year's total. Keeping the phonathon vibrant has been an ongoing challenge as more alumni disconnect their landline phones in favor of cell phones.

"It's becoming more and more difficult to maintain telephone contact with alumni," Hedge says. "We are now seeking ways to better connect with people."

The difficulty of making those connections has been felt by phonathon fundraising events across campus. Hedge says the College of Pharmacy is exploring ways to expand its fundraising strategy through social media.

While the phonathon presents some challenges, it continues to pay dividends for students and faculty. For students, phonathon funds are invested in student organizations, scholarships and learning infrastructure. Members of the faculty benefit through travel opportunities and staff development programming that can be brought to campus.

"We look at the phonathon as an opportunity to generate dollars that can be invested in our students and our faculty," Hedge says.

The dean believes that students are quick to make the connection between the generosity they've seen in others through the phonathon and their own responsibility to the future. He notes that one of the groups with the highest percentage of phonathon donors is graduates who are in their first year of pharmacy employment.

"They're already paying it forward a little bit for the next generation," Hedge says. "I believe they learned that from many of their experiences here."

Dana Hess



Laughrey Lecture Halls dedicated

Those filling the seats in the Laughrey Lecture Halls Thursday afternoon, April 26, were a little older than on most days.

The occasion was the dedication of the Laughrey Lecture Halls in the basement of the Avera Health and Science Center. It included friends of former Brookings High School and South Dakota State (1963) graduate J. Bruce Laughrey as well as university leaders.

During presentations, Laughrey, of Windermere, Fla., received a mounted mortar and pestle from the SDSU Foundation (far left). Laughrey was joined at the presentation by his wife, Kandi, and Dean Dennis Hedge (far right).

Laughrey began taking an active fundraising role for the college in 1996-97. In late 2011, he made a \$1-million gift toward the two 90-seat, tiered lecture halls in the \$51-million building that was opened in July 2010.

Thank you

Jan. 1, 2011, to June 12, 2012

Dean's club membership consists of alumni and friends who have contributed \$500 or more annually to the College of Pharmacy. Dean's Club members are recognized as devoted friends of the College who make significant impact on the College's future.

Member names will be listed in the SDSU Honor Roll and the College newsletters. They also will receive invitations to special College and University functions, updates from the College dean, and an SDSU Dean's Club car decal.

3M - St. Paul
 Steven M. and Robbie D. Aamot
 Aberdeen District Pharmaceutical Assn.
 Academy of Student Pharmacists
 Anderson Pharmacy Inc. - dba Alcester Drug
 Anderson Pharmacy Inc. - dba Haisch Pharmacy
 Arne A. Anderson
 James A. Armbruster
 AstraZeneca Pharmaceuticals LP
 Avera Health
 Avera McKennan Hospital
 Bob and Becky Baer
 Harold S. Bailey Jr.
 Janet G. Baird
 John C. and Patricia Bartholomew
 Tom and Linda J. Bartholomew
 Leonard J. and Ruth A. Bassett
 Beach Professional Pharmacy
 Owen G. Benthin
 Thomas L. Beranek
 Scott J. and Jessie L. Bergman
 Bill P. Bernhard
 Beverly Plaza Pharmacy
 Joye Ann Billow
 Darrel C. Bjornson
 Black Hills Dist. Pharm Assn.
 Duane C. and Gladys S. Bloedow
 Blythe Drug
 James J. Boehm
 Boeing
 Jim Bregel
 Perry W. and Jolene A. Brown
 Marlin R. and Linda J. Brozik
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 Cardinal Health
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 Chet Johnson Drugs, Inc
 Yee-Lai and Carla R. Chiu
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 Larry L. Christensen
 Nancy K. Peterson and Richard H. Chun
 Soon-Riang Chung
 Cody J. Church
 CIGNA Foundation
 James and Marilyn Clem
 Kay Coffield Pearson
 Complete Home Care, Inc.
 Crazy Horse Memorial Foundation
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Bill R. Darrah
 Kirk E. and Stephanie Dean
 Scott B. Deckert
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 Paul A. and Paula M. Hammond
 Dan and Jessica Hansen
 Richard C. and Norma J. Hanson
 J. Rick and Peggy A. Harter
 Thomas D. and Sheila Zukley Hartnett
 Dennis D. and Susan J. Hedge
 Laurilyn D. Helmers
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 Matthew Johnson & Julie Hanlon-Johnson
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 Jerome R. and Nina M. Kappes
 Gary W. and Linda L. Karel

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 David W. and Trish Kruger
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 Kevin G. Wurtz
 Yankton District Pharmacy Association
 Margaret A. Zard
 Roger A. Zobel

Capital campaign: One question remains

The College of Pharmacy was an enthusiastic partner when the decision was made to proceed with **It Starts with STATE:**

A Campaign for South Dakota State University.

The campaign opportunities included a new home for the College, with expanded space for classrooms, teaching and research laboratories and faculty offices. The dedication of the Avera Health and Science Center in 2010 remains a signature achievement of the campaign.

The goal that alumni and friends have been working toward for 5 ½ years is tantalizingly close. Very soon, someone's gift will officially push It Starts with STATE beyond the \$200 million goal. But that will occur only because of gifts that have already come from more than 21,220 different donors.

Knowing that we will reach the goal several months before the scheduled end of the campaign, there's the obvious question: What then?

Scholarships will always remain a high priority for students who enter one of SDSU's most rigorous fields. Students face a six-year commitment to earn their Pharm.D. More than 20 are enrolled in the Ph.D. program. More scholarships are needed to help alleviate the cost.

SDSU is working to move forward with a Community Pharmacy Residency program to prepare those students interested in running their own pharmacy. It is our way to ensure that areas throughout the country maintain the benefit of a trained professional in or near their community.

The college is fully committed to further expanding its capacity in cutting-edge research. Promising work in already under way regarding cancer and other aspects of health science, and private gifts will need to be a significant source of revenue to continue this research.

While the College of Pharmacy is proud of all that's been accomplished thanks to the extraordinary generosity of alumni, friends and corporate partners, we are just as enthusiastic about the opportunities that exist today as we were 5 ½ years ago when the new building was on the drawing board.

We need to celebrate all that we've done together and set our sights on the new opportunities that will take one of SDSU's oldest academic colleges to the next level.

*Stacey A. Kutil
 College of Pharmacy
 Development Director*



Stacey Kutil

WE WANT TO HEAR FROM YOU!

Have you moved, accepted a new position, gotten married, given talks in your community, received an advanced degree, had an addition to your family? Everyone at the College of Pharmacy and your classmates want to know what has been happening with you.

Name _____ Year Graduated _____

Address _____

City/State/Zip _____

Telephone (_____) _____ E-mail _____

Send to: Dan Hansen
 College of Pharmacy
 Box 2202C
 South Dakota State University
 Brookings, SD 57007-0099
 dan.hansen@sdstate.edu



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