

The College of Pharmacy

Winter 2011, Issue No.1

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South Dakota State University



Dear Friends

Avera Center tops list of achievements for College

The dedication ceremony of the Avera Health and Science Center September 9 was a truly historic and memorable event. All of us at the College are grateful that so many of our alumni and friends from across the country were able to join us for this special occasion.

As we gave tours of our new home, we took great pride in showing our guests how the new building will enhance our teaching, research, and service efforts. Throughout this publication, you will learn more about the teaching, research, and service efforts of the College. In addition, for those of you that were not able to join us, we have included a feature story that captures the excitement and enthusiasm of the September 9 celebration.

Research projects

In the area of research, the College has great momentum due to the efforts of the faculty and students. Our research teams are making great progress on projects that can enhance the health and wellbeing of people around the world.

In the pages that follow, you will read about the work of Dr. Shafiqur Rahman and his team. You will also see that the College is committed to enhancing an interest in research among its students through events like the Keo Glidden Smith Convocation and Research Day.

New outreach

An exciting outreach program launched this past summer by the College's student services team and featured in this publication is the Wicozani Academy in Rapid City. The program is a camp designed to help seventh-grade students explore health-care careers and better understand the associated academic requirements.

The College's student organizations have also been heavily involved in service activities. I encourage you to read about their work in our communities as well.

Student success

Our students also continue to excel academically. For the twelfth time in thirteen years, the SDSU passing rate for first-time candidates taking the NAPLEX (North American Pharmacist Licensure Examination) was 100 percent. The Class of 2010 had an average exam score of 111.97 (national average exam score = 103.06).

Our consistent success in this area is the result of dedication and creativity. An example of this dedication and creativity is described in this publication's story on the interprofessional education activity with health science programs at the University of South Dakota.

As you will see throughout this magazine, many great things are happening at the SDSU College of Pharmacy. It is a pleasure to share them with you.

Best wishes,
DENNIS D. HEDGE
Dean of Pharmacy

About the cover



Avera dedication...depending of the cover shot chosen. See story Page 11.

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South Dakota State University

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Rahman offers research opportunities to undergraduates



There has been some impressive research going on in the Department of Pharmaceutical Sciences.

Jacqueline Adams studied methods for combating memory loss in people with neurodegenerative disorders, including Alzheimer's disease.

Trent Harris researched pharmacotherapy strategies for the treatment of alcohol and nicotine codependence.

Ryan Rasmussen studied compounds that may hold the key to reducing depression.

These are the types of subjects for research that the department is expected to tackle.

Adams, Harris, and Rasmussen, however, are not typical researchers.

Harris and Rasmussen are P1 students while Adams is a pre-pharmacy major.

This past summer all of them benefited from their association with

Professor Shafiqur Rahman, who is dedicated to using his laboratory to provide research experiences for undergraduate students.

Rahman has had eight undergraduate students conduct research in his lab.

"I take it very seriously," Rahman says of getting research experience for undergraduate students. "They learn how pharmaceutical research goes on; they learn how that process works."

Those lessons were thorough and lengthy, according to Rasmussen.

"When I first started looking into research, I didn't know what to expect. Dr. Rahman really took the extra time with me to make me feel comfortable working for him," Rasmussen recalls. "He spent a lot of time over the summer teaching me not only important lab techniques, but also about the importance of research in the future of health care."

From left, Trent Harris, a summer student and Ravi Sajja, a graduate student, work in the associate professor's lab in summer 2010 with a compound used in treating nicotine addiction that may be effective against alcoholism as well.

Overcoming apprehension

Rahman and his graduate students understand that it's only natural for an undergraduate to feel apprehensive about going to work for the first time in a pharmaceutical research lab.

"What surprised me the most was the sense of community the research staff and students have," Adams says. "Everyone was always very open and welcoming to the undergraduates like myself."

Rasmussen was struck by the level of trust Rahman placed in his undergraduate researchers.

“Right from the beginning, he not only trusted me, but even liked to hear my opinion on what I thought about issues,” Rasmussen says. “Even though he is an expert in the field of neuropharmacology, he really listened to any thoughts or ideas I had.”

Undergraduates who conduct research in Rahman’s laboratory find themselves conducting experiments, collecting data, and interacting with graduate students.

Helped by graduate students

“I expected to work by myself on my project,” says Adams, “but I had a lot of help from Dr. Rahman and his graduate students.”

That was similar to Rasmussen’s experience.

“I would also like to point out how much help the graduate students were in teaching me about research,” Rasmussen says. “Monzurul Roni and Ravi Sajja

“I want them to learn about the development of medications from bench to pharmacy,” Dr. Rahman says, “from a single molecule to a completed drug product.”

really took the time to pass on their knowledge to make the project the best that it could be for me.”

Rahman works to ensure that undergraduate researchers get the full benefit

from working in his lab.

“They do it exactly the way graduate students do, just on a smaller scale,” Rahman says.

The lessons that come out of the laboratory experience help give undergraduates a greater understanding of the breadth of pharmacy research.

“I want them to learn about the development of medications from bench to pharmacy,” Rahman says, “from a single molecule to a completed drug product.”

For Rasmussen, the laboratory experience was a revelation: “Overall, working in Dr. Rahman’s lab really opened my eyes to the importance of research for the advancement of the pharmacy profession.”

Juhnke gift put to use

Offering research experiences to undergraduate students is not without costs.

The projects students worked on received funding from a variety of sources including the Joseph F. Nelson Mentorship Program, the American Foundation of Pharmaceutical Education, and the American Association of Colleges of Pharmacy.

One funding source they all had in common was the Juhnke Research Fund of the SDSU Foundation. Created by pharmacy graduate Rollins Juhnke ‘55 and his wife LeVuo, the endowed fund was created to support research in the College of Pharmacy.

“All of the undergraduate research costs and supplies were supported by the Juhnke family,” Rahman says of the \$15,000 from the research fund. “We really appreciate those funds.”

Dana Hess



Undergraduate students get the opportunity to take part in pharmaceutical research in the laboratory of Professor Shafiqur Rahman. Working in the lab this past summer were, from the left, Ryan Rasmussen (P1), Jacqueline Adams (pre-pharmacy major), Trent Harris (P1), and Rahman.

Wicozani Academy spotlights Native health-care providers

Ten Rapid City area seventh-graders spent two days last summer seeing that they can choose careers in health care without leaving their Native American culture behind.

The inaugural Wicozani (which means holistic health) Academy, held August 5 and 6 in Rapid City, was coordinated by

Pharmacy's Dan Hansen, assistant dean, and Teresa Delfinis, student services coordinator, and Nursing's Colleen Mann, assistant professor.

The ten students, who were recommended by a teacher and their school, were recruited from North Middle School and the summer program Girls

Inc. in Rapid City and Red Shirt School in Hermosa.

"They didn't necessarily know they wanted to be a nurse or pharmacist," Hansen says, "but they had some concept of what health care was and what was involved."

They toured health facilities that primarily serve Native Americans, talking to Native health-care providers and learning what path to take should they wish to follow in their footsteps.

"We chose seventh graders because they're getting ready to choose their classes in high school," Hansen says.

While having lunch at the SDSU West River Nursing facility the first day, the students listened to P3 student Erica Fleury talk about her decision to go into pharmacy.

"She stressed the importance of math and science," Delfinis says, "because if you don't take those courses in high school, you're limiting your options."

All along the way, there were Native American role models to look up to—at Rapid City Regional and Sioux San Indian hospitals in Rapid City and at Indian Health Services in Pine Ridge.

"They talked about different things they do beyond what we'd consider western medicine," Hansen says. "Obviously, they give the best care medically, but they also incorporate some of their healing rituals."

"Native American healthcare providers are taking their cultural beliefs into their profession and they're treating Native patients in a respectful manner," Delfinis says. "Patients see that their beliefs are taken seriously."

They met Leonard Little Finger, a Lakota elder whose mission is to start a school where students are taught in more traditional Native American ways, surrounded by the Lakota culture.

"If they become doctors or pharmacists, more power to them. And if they choose to come to SDSU, great. But we just want them to know there are role models out there." – Dan Hansen, assistant dean



Roger Habermann, Skills Lab Coordinator (College of Nursing), demonstrates how to take patient vital signs on a mannequin in the West River simulation lab.



“He talked to the students about healing and traditions,” Hansen says. “He went through paintings and symbolism. He talked about how the Lakota language is dying and how he’s trying to keep that culture going.”

The students strapped on pedometers to see, at 2,000 steps per mile, how much walking they did each day. They

also took part in several nutritional exercises, from learning to calculate their body mass index to actually seeing the blob of fat, pile of sugar, and mound of salt their favorite fast food meal contains.

But planting good seeds was the main goal of the Wicozani Academy, planned again for next year and funded this year by a South Dakota Healthcare Work-

Top: Dan Hansen, Assistant Dean of Pharmacy, shows students an experiment using Alka-Seltzer, an over-the-counter medication, to learn about pH balance in the stomach. **Left:** In addition to camp participants, are (left to right) Colleen Mann, Assistant Professor (College of Nursing); Teresa Delfinis, Student Services Coordinator (College of Pharmacy); and Renay Silva, RN (SDSU College of Nursing graduate).

force Partnership Fund and carried out collaboratively between the SDSU Colleges of Pharmacy and Nursing.

“First and foremost, we wanted to get the students interested in pursuing higher education because there are so many who don’t graduate from high school,” Delfinis says. “They see role models and believe they can do it too.”

“That’s our number one goal,” Hansen agrees, “to just get them considering secondary education. If they become doctors or pharmacists, more power to them. If they choose to come to SDSU, great. We just want them to know there are role models out there.”

Cindy Rickeman

Workshop uses mock patients to develop medical teamwork

Ed and Emma have seen better days.

Emma is 87. She moved to town from the farm and doesn't have much of a support system. She had a stroke about ten years ago and suffers from dementia or the early stages of Alzheimer's. Macular degeneration affects her eyesight and she suffers from poor nutrition. She also has a sore on her bottom that she can't take care of on her own.

Ed is also 87. He lives alone in a two-story house with a narrow staircase. He has vision and hearing problems and a sore back. Age hasn't diminished his thirst. He drinks three to six tumblers of liquor a day that interfere with the meds he takes for congestive heart failure. He fails to regularly take his Lasix because it makes him go to the bathroom and he doesn't like navigating the stairs up to the only bathroom in his house.

"He's not the patient from Hell, he just needs a little looking after," according to Roland Ellis of the Center for Disabilities in Sioux Falls. Ellis should know because he's Ed, or at least one of fifteen Eds making the rounds at the Lee Medical Building on the University of South Dakota campus during the Interprofessional Training Workshop.

There are also fifteen Emmas, many with canes or walkers and headscarves because props like that help them stay in character.

The workshop brought together students from a variety of health care fields to help assess the needs of Ed and



Emma. Among the workshop participants were seventeen P3 students. It was the first time the College of Pharmacy participated in the workshop.

320 students, 40 volunteers, one roof

The SDSU pharmacy students worked with majors from the USD School of Health Sciences and the Sanford Medical School. Students—from fourteen majors as wide-ranging as pharmacy, medicine, nursing, social work, and dental hygiene—formed groups of ten or twelve to meet with an "Ed" and an "Emma" and figure out the best way to handle their health care needs.

The groups would review a patient's chart, meet with Ed or Emma asking questions about their health, then the students would use their training to



focus on how to help.

"Each discipline contributes to the learning," says Stacy Smallfield, an associate professor of occupational therapy at USD and a member of the workshop's planning committee.

Ellis and Smallfield estimate that the workshops have been held annually at USD for about fifteen years. As it keeps growing, staffing it with volunteers gets tougher.

"We're running out of Eds and



Emmas,” Smallfield says, noting that in addition to thirty role-playing “patients,” most of whom have health-care backgrounds, it also requires another ten volunteers to handle logistics and turn some classrooms into conference rooms at the Lee Medical Building.

On the day of the workshop, the building is bursting, but volunteers have found space for 320 students to form thirty groups who were able to simultaneously hold their consultations.

Smallfield remembers the bad old days when the workshop was held in the Dakota Dome with tables spread across the playing surface. Privacy was lacking, but that didn’t matter, according to Smallfield, because the acoustics were so bad students often couldn’t hear what was being said across the table.

“All of these groups simultaneously in one building is amazing,” Smallfield

says. Including the College of Pharmacy in the workshop for the first time is a welcome addition according to Ellis, a workshop veteran.

“Pharmacy is a nice mix with the medical students,” Ellis says.

That Emma looks familiar

Last year’s workshop was observed by Dean Dennis Hedge and Debra Farver, a professor of pharmacy practice. Farver was so taken with the workshop that she volunteered her services as one of the workshop’s Emmas.

With her gray wig and headscarf, Farver was unrecognizable as the professor pharmacy students work with at the Human Services Center and Avera Sacred Heart Hospital in Yankton.

After her first session as Emma, it was apparent to Farver that the diverse medical talents in the room complement

With a gray wig and headscarf, Professor Debra Farver is unrecognizable as the professor pharmacy students work with at the Human Services Center and Avera Sacred Heart Hospital in Yankton. She was portraying an 87-year-old in an exercise with 320 students at the Lee Medical Building at the University of South Dakota in Vermillion in fall 2010.

each other.

“It really does come together,” Farver says about the way students drew out the information about her ailments and developed a course of treatment.

“You can already tell the excellent caregivers,” Farver says. “They’re kind, respectful, compassionate. So they’ll be wonderful practitioners.”

P3s praise opportunity to exercise knowledge

Two of those budding practitioners—P3s Katie Hagen of Milbank and John Weitgenant of Worthing, Minnesota—were impressed by the workshop and their colleagues in medical training.

“It’s good to start working with other disciplines,” Weitgenant says. “It’s interesting to see how they rely on one another.”

Hagen admits to being concerned about how her knowledge would measure up to the rest of the students in her group. As it turned out, there was no need for apprehension.

“They didn’t know very much about drug interactions,” Hagen says. “It’s good to see that our expertise is needed.”

In the workshop, the pharmacy students’ expertise was focused on making sure Ed and Emma were following the instructions for taking their medications.

Reminded that one of them could get ornery about obeying those instructions, Weitgenant sounded professional but firm, “Ed needs to take his Lasix.”

Avera Health and Science Center



“As impressive as this building looks from the outside, the real promise of this partnership will come from the work that will occur in the labs and classrooms.”

— Dean Dennis Hedge

It's a simple and down-to-earth observation that reveals an underlying factor in obtaining a quality education.

“When I’m comfortable, I learn better,” says Cy Fixen, a second-year pharmacy student, when discussing the imposing nature of the Avera Health and Science Center.

He goes on to say, “The old building was cramped, space in the labs was scarce, the lecture halls were hot, and sometimes it was hard to hear instructors or see Power Point presentations. The new facility has solved these problems.”

Indeed, the 144,600-square-foot building has much to offer students, faculty, and researchers since opening for business July 2010.

Officially dedicated September 9, the state’s largest academic building project took a little more than two years to complete, and it has more than lived up to its billing.

“It’s exciting to come to class everyday because the building has so many features to engage students more and facilitate the learning experience,” says first-year

lives up to billing



pharmacy student Jane Vipond, who adds that attending class isn't the only factor.

"The environment plays a big role as well. The new classrooms, technology, and study areas truly allow students to get the most out of their college learning experience."

With more than 50 percent of SDSU's students expected to take a class in the center during their college years, it will be a building that "literally never sleeps," according to Dean Dennis Hedge.

"The sixty-two labs inside will be occupied in the early morning hours and late at night, on weekends, during football games, and throughout the summer by some of the brightest and most dedicated graduate students and faculty researchers around," he says.

"This facility is the result of a partnership between SDSU and Avera Health with a keen eye to the future," adds Hedge. "As impressive as this building looks from the outside, the real

promise of this partnership will come from the work that will occur in the labs and classrooms."

Citadel of science

Hedge was the master of ceremonies for the dedication that drew an estimated crowd of 600 people who gathered outside the main entrance on the west side.

Making remarks were Dean Krogman, member of the South Dakota Board of Regents; John Porter, president and chief executive officer of Avera Health; and SDSU President David Chicoine.

Estelline native Julie Gerberding, president of Merck and Company Global Vaccines and former director of the Centers for Disease Control and Prevention, delivered the keynote address.

"It makes me so proud to be witnessing this extraordinary step forward in the future of our state, because this is the citadel of science and science is critical for the future of South Dakota," Gerberding told the audience.

"In an environment of increasingly complex health challenges, it's even more important to have an opportunity for our state to invest in the health-sciences and health science research," she adds.

Professor of Medicinal Chemistry Xiangming Guan, coordinator of research/scholarship and graduate studies, already appreciates the impact of the center from a research and graduate education perspective.

"The new building relieves the urgent space need of the rapidly expanding research activities in the Department of Pharmaceutical Sciences and the new Ph.D. program in pharmaceutical sciences," he says.

"It also helps to recruit and retain faculty members as well as graduate students," he adds. "The facility undoubtedly lays down the foundation that helps lift the research in the College to a different level."

Outside the education realm, Guan takes note of the center's amenities afforded to graduate students.

"We have such an open environment

now with more space and great views of the campus,” he remarks. “It’s a wonderful building, especially for our graduate students. And, for the first time, they have a nice dedicated resource room to use, whether for socialization purposes or a place to study.”

A progressive facility

When walking up to the center, Fixen always notices the large mural faces, featuring students and teachers, that decorate the massive glass windows above the main entrance.

“It’s a daily reminder that I attend a very progressive college, and the promise of outstanding teaching and research offered to both students and the field of medical science,” says Fixen, who relates that the center was a major reason he moved back to South Dakota from Boston to pursue a Pharm.D. degree.



“Because I know the strength of research is almost always correlated with strength of a teaching program, I felt very confident going to SDSU.

“To see an organization like Avera and a university investing so much money up-front, especially during tough economic times, for results that may not be seen immediately, shows to me that they are extremely progressive and thinking to the future,” adds Fixen.

In interactions with fellow students, Vipond shares that the center exceeds



Above: An estimated 600 students, faculty members, and community residents gathered outside the Avera Health and Science Center for dedication of the \$51-million facility September 9. Rains stayed away from the event but earlier downpours meant workers had to create plywood sidewalks for the crowd to stand on. **Left:** On the podium are, from left, John Porter, president and chief executive officer of Avera Health; Dean Dennis Hedge, keynote speaker Julie Gerberding, SDSU President David L. Chicoine, and Regent Dean Krogman.

everyone’s expectations.

“Students definitely seem to be amazed,” she says. “It was incredibly important to build this facility because it allows the College to expand its program.

“It provides students with more opportunities to learn and hone their skills, and it gives professors and graduate students the chance to expand their research,” adds Vipond. “This all bodes well for South Dakota for having a state-of-the-art facility for the education of its students.”

Design space for all

Progressive certainly defines the center’s interior, where technology and design space are most apparent.

- A 2,325-square-foot pharmacy practice laboratory that holds up to thirty students. The lab has consultation rooms with cameras so students can review and evaluate their own counseling skills along with an IV room where students practice making sterile preparations.
- A pharmaceutical sciences laboratory for demonstrations in the fields of pharmacology, medicinal chemistry, and pharmaceuticals. Up to thirty students can experience hands-on activities in the 1,570-square-foot lab.
- Pharmacy practice faculty members stationed at off-campus locations have dedicated office space when returning

Students, faculty benefit from new administrative approach

By broadening its management team, the College of Pharmacy has become more responsive to students and faculty.

“Our overall breadth and depth is much more than it was in the past,” says Dean Dennis Hedge. “Collectively we are stronger by bringing more points of view to the table.”

Those points of view come from:

- Professor James Clem, head of the Department of Pharmacy Practice;
- Professor Chandrahar Dwivedi, head of the Department of Pharmaceutical Sciences;
- Professor Jane Mort, associate dean for academic programs;
- Assistant Professor Dan Hansen, assistant dean for student services;
- Professor Xiangming Guan, coordinator of research/scholarships and graduate studies.

“Each member of the team really has an area of expertise,” Hedge says. “That allows us to learn from each other.”

That expertise is used to its fullest advantage through increased communication. The administrative team meets twice a month with members reporting on their areas of expertise and Hedge reporting on issues related to the College and the University. The information shared at the meetings helps the administrative team with strategic planning.

“We’re approaching issues in a comprehensive manner,” Hedge says. “The depth of our administrative team has enhanced the student experience and made us more responsive to faculty and staff needs.”

According to Hedge, if he’s out of the office, he’s sure that a member of the administrative team will quickly and efficiently help a student with a question.

“I have complete faith that they will do the right thing,” Hedge says. “I have great confidence that students and other visitors to the College are well taken care of.”

The new administrative team structure has been designed with a focus on

students, right down to decisions about office placement. Hedge notes that in the College’s main office, Assistant Dean for Student Services Hansen has his office closest to the main door to be readily accessible to students.

“We really want to facilitate student success,” Hedge says. “I hope students see a more noticeable administrative presence in that regard.”

Faculty members will also notice a difference, as the expanded administrative team is more responsive to their questions and concerns.

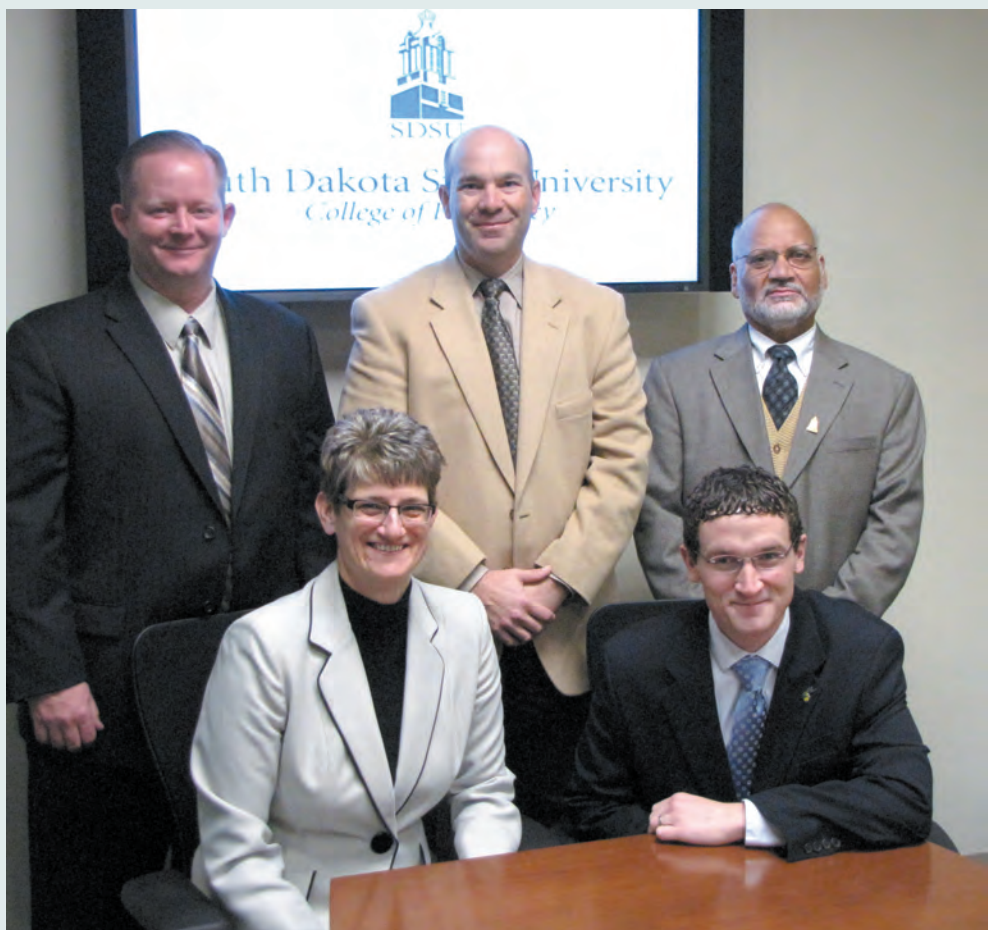
“We have an administrative structure that supports our comprehensive mission,” Hedge says.

That structure is working, but Hedge knows it has to be flexible if new opportunities in academics or research change the College’s mission.

For now, though, Hedge is happy with the new administrative structure.

“We have a more efficient and effective system for both students and faculty here at the College of Pharmacy,” Hedge says.

Dana Hess



Members of the College of Pharmacy administrative team are, standing from left, Professor James Clem, head of the Department of Pharmacy Practice; Dean Dennis Hedge; Professor Chandrahar Dwivedi, head of the Department of Pharmaceutical Sciences; and, seated from left, Professor Jane Mort, associate dean for academic programs; and Assistant Professor Dan Hansen, assistant dean for student services. The other member of the administrative team is Professor Xiangming Guan, coordinator of research/scholarships and graduate studies.



Building project donors Independent pharmacies step forward with gifts

Avera Health's \$15-million gift provided the signature investment for the new health science building and \$24 million came from state funds.

The remainder of the \$51-million price tag was met when private individuals and businesses filled the gap. Three of those donors are independent community pharmacies whose owners got their education at South Dakota State University.

Agreeing to sponsor faculty offices were Liebe Drug, Cheri Kraemer, and Hugh and Cari Mack.

Liebe Drug is a six-store family operation in northeast South Dakota and west-central Minnesota with headquarters in Milbank. It is owned by Arvid Liebe '65, Paul Sinclair '77, and Valerie Tritz '90, and originated with one store purchased by Liebe in 1969.

Hugh '86 and Cari '85 Mack got their start at Liebe Drug, but in 1998 became sole operators of Randall Pharmacy in

Redfield. Three years ago they added Faulkton Drug to their holdings.

Kraemer, a classmate of Cari Mack, purchased her first pharmacy—Clinic Pharmacies in Sioux Falls—in 1998. She purchased Parker Pharmacy in her hometown in 2000 and started Pharmacy Specialties, a compounding business, in 2001.

Looking at the big picture

While their gifts came in a time of a poor economy, none of them said they had to fight thoughts of "now isn't the time to give."

Sinclair, managing partner in Milbank, says, "You have to consider the big picture, the good that is coming from the donation and the future it holds for pharmacy in South Dakota. Sometimes you have to look past the current situation and look to the future.

"Our help guarantees good graduates coming out. It's an investment in the future and the students graduating are able to be a part of our team."

Kraemer and the Macks took advantage of an SDSU Foundation plan that allowed contributions to be spread over a few years.

Cari Mack says, "We felt like that was something we could handle. We wanted to help and there was a need there."

Facility replaced Gross Building

Faculty moved into the Avera Health and Science Center in July 2010 after being housed in temporary offices in the intramural building since May 2008. The three-story center replaced the Guilford

C. Gross Pharmacy Building and renovated Shepard Hall.

Classes were in session when the Avera Center was dedicated September 9, 2010, in an outdoor ceremony.

The Macks, Kraemer, Liebe, and Sinclair were all on hand for the event and came away impressed by the Gil Haugen Construction Company project.

"The space and facilities are impressive for new faculty and students who are thinking of coming here. It's a great addition to the campus," Mack says.

Recalling his school days, Sinclair calls the Avera Health and Science Center "pretty amazing. I think back to classes in the Administration Building and going up the stairs in Shepard for lab. It's quite a change, and it was needed because the practice of pharmacy has changed a lot.

Technology at its best

Nowhere is that better seen than in the pharmacy practice and pharmaceutical sciences labs.

"It's not a sacrifice. It's just enabling them to do more with what they have. I'm just helping out. That's what I'm doing." — Cheri

*Kraemer,
pharmacy owner*

Not only are they equipped with state-of-the-art hoods and related safety equipment, the labs also have the technology that allows students to watch on large screen as the instructor demonstrates a lab or coordinates an experiment with an off-site colleague.

Kraemer says, "There's so much opportunity for the kids now. I'm just excited about what they're going to experience."

She was in the first class that began using the Gross Pharmacy Building in 1981, but Kraemer says she shed no alligator tears when the wrecking ball fell. "It was an old facility and pretty small. We had old lab facilities when I was there."

Connecting with students

While the center may be the mecca of learning on campus, educators know that it isn't the final stop.

Students still need to get out where pharmacy is practiced. Often times that is the community pharmacy.

"We try to help in any way we can through the internship program and the advanced practice placement [extern] program," Sinclair says. "We have students that come and do both retail and management rotations."

In management rotations, students will be in the office working with accounts receivable, accounts payable, scheduling, employee reviews, "anything involved in running a business," Sinclair says. "To go to a single-store operation and learn is fine, but when they come to us they have six locations, ten pharmacists, eighty employees. There's just a lot going on."

Those rotations are for five weeks, but Sinclair hopes to some day have a full-year residency option for graduates.

Liebe and Sinclair have both spoken to classes on the viability of rural pharmacies. "These communities really need our services. The people are thrilled to have us there. The more we can show the students that [rural pharmacies] are feasible, the more that some students will want the opportunity to own their own business," Liebe says.

Honoring someone special

Of course, it's not for everyone. In fact, Sinclair's own daughter, Elizabeth, a 2009 graduate, is pursuing a career in pediatric pharmacy.

However, the Macks may have some in-family relief as they age. Son Murphy, a sophomore at State, will apply for pharmacy school this winter. Daughter Molly is graduating from the University of South Dakota in May and also will apply for pharmacy school this year.



Even if the children don't end up pursuing a retail career, the Macks are happy to have both their children and their dollars going to State. "The institution is important to South Dakota. We feel like we are investing in South Dakota when we give there," Cari Mack says.

Kraemer describes her gift this way: "It's not a sacrifice. It's just enabling them to do more with what they have. I'm just helping out. That's what I'm doing."

The gifts also enabled the donors to honor others.

For the Macks, the faculty office was named in memory of Cari Mack's parents, Mac and Arlee Nielsen. "My dad gave up an executive job on the East Coast to raise his family in a small town like he was raised," says Mack, who grew up in Armour.

For Sinclair, it was an opportunity to honor a current faculty member and friend—Dave Helgeland.

Dave Graves



Opposite page: Cheri Kraemer '85. **Left:** Liebe Drug owners, from left, Arvid Liebe '65, Valerie Tritz '90, and Paul Sinclair '70. **Above:** Cari '85 and Hugh '86 Mack

Alaskan independent pharmacist White honored by College

Reviewing Dirk White's journey in the pharmacy world during the last twenty-five years, it's easy to understand why he is so much appreciated in the profession.

Recognizing his accomplishments since earning his pharmacy degree in 1985, he was honored with the 2010



Alumnus of the Year award at the College's fall banquet September 18.

"It's very humbling to receive such a high honor from the place where I received my pharmacy education," says White, a native of Gaylord, Minnesota.

"I definitely have a strong loyalty for SDSU with many fond memories," he adds. "I received an excellent knowledge-based education that was well-rounded with information."

White not only has been closely associated with the College during the years, he has also been a highly active and community-oriented pharmacist with his wife, Trish, in Sitka, Alaska.

The couple owns two pharmacies in the oceanfront city of 9,100 on Baranof Island: Harry Race Pharmacy and Photo, a traditional downtown drugstore with a soda fountain, photo department, gifts, and cards; and White's Pharmacy, inside a grocery store near downtown. They also have Season's Card Gift Store and the Alaska Creamery in Sitka.

Although White is nearly 3,000 miles from State, it doesn't mean there is a lack of communication. For the last fourteen years there has been a steady flow of

SDSU students doing their pharmacy rotations at White's two pharmacies.

"I call fairly often about pharmacy student rotations," says White, who was the 2006 recipient of the Willard B. Simmons Independent Pharmacist of the Year award, which honors pharmacists who provide exceptional service to the profession. "It's really wonderful to have SDSU students come up and work with us. I learn more from them sometimes than they do from us."

White's pharmacies have grown to more than thirty employees. Besides filling prescriptions, they do home health care, hospital consulting, and long-term care. "If it deals with pharmacy, we get called," he notes.

Bruce Roberts, executive vice president and chief executive officer of the National Community Pharmacists Association, supported Roberts' nomination as Alumnus of the Year.

"Dirk is an exemplary pioneer in community pharmacy by providing health-care services to a community that he has also helped to build," he says. "He has enhanced the profile of the pharmacy profession."

Kyle Johnson

DIRK WHITE

Education: Gaylord, Minnesota, High School, 1974; University of Minnesota Morris, biology degree, 1979; SDSU, pharmacy degree, 1985

Family: wife, Trish; daughter, Taylor, 20; son, Soren, 16

Business: Dirk and Trish White own Harry Race Pharmacy and Photo, and White's Pharmacy, in Sitka, Alaska; Season's Card Gift Store, Sitka; The Alaska Creamery, Sitka

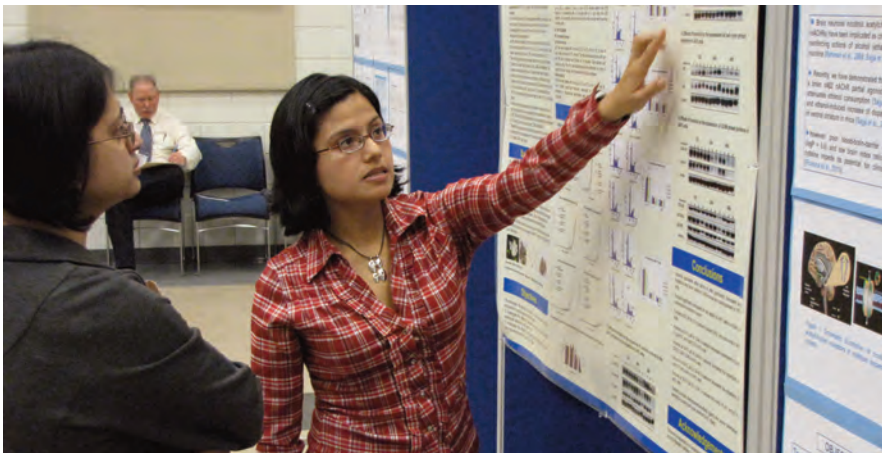
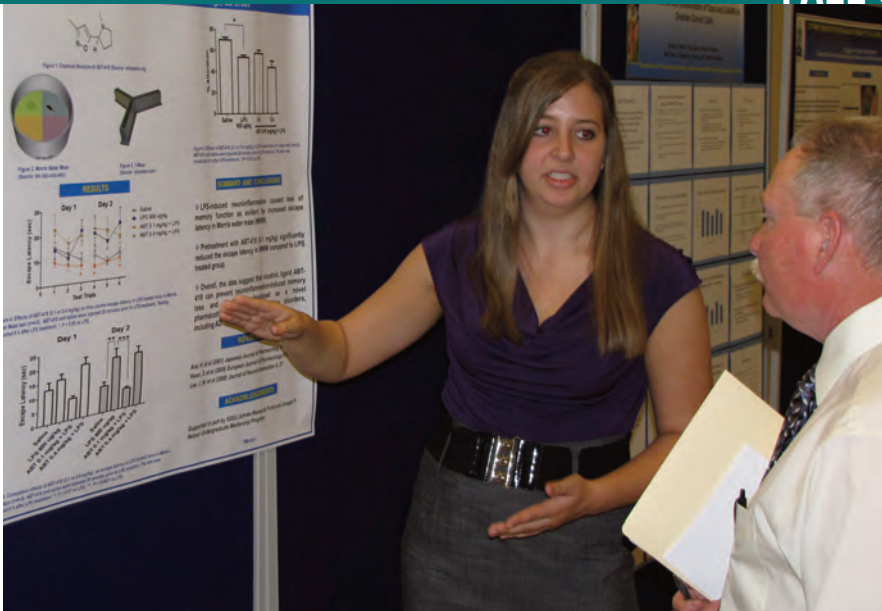
Professional involvement:

- Past president and board member of the Alaska Pharmacists Association
- Membership in the International Academy of Compounding Pharmacists, American Association of Diabetes Educators and Association of Natural Medicine Pharmacists, State of Alaska Board of Pharmacy vice president and past secretary, Good Neighbor Pharmacy West Coast Regional Advisory Board
- Served on the National Community Pharmacists Association's home health care, legislative and third party steering committees; currently serving on innovation and technology committee

- Moderated and served as a panelist on several convention sessions and has represented Alaska at the House of Delegates for more than ten years

Community involvement:

- Local Rotary International past chapter member and secretary of the Sitka Club
- Sitka Summer Music Festival Board treasurer
- Federal Credit Union Supervisory Committee
- Chamber of Commerce member
- Founding board member and three-term president of the Alaska Raptor Rehabilitation Center, a facility that cares and rehabilitates birds of prey
- Operated a classical radio music program and was cohost of a call-in show. Recently, he has been airing adult contemporary music
- Served on the Alaska Communications System local advisory board
- Received the Sitka Chamber of Commerce Business of the Year award in 1999



Top: Jacqueline Adams, a prepharmacy student from Madison, explains her research project to Jeff Clapper, an associate professor in the Department of Animal and Range Science, at the twentieth annual Pharmacy Research Presentations in the Volstorff Ballroom October 25, 2010. Adams' project tested the effectiveness of a compound in reducing memory loss. **Below:** Ruth Guillermo, a fourth-year graduate student, explains her research project to Mou Dey, an associate professor in the Department of Health and Nutritional Science, at the annual Pharmacy Research Presentations. Guillermo's research found a compound from the bark of the magnolia tree to be effective in the treatment and prevention of skin cancer.

Four steps for handling change

World-renowned diabetes researcher Paul Burn left his academic notes behind when he spoke to about 300 faculty members and students from the College of Pharmacy at the Keo Glidden Smith Fall Convocation in the Volstorff Ballroom October 25, 2010.

Burn, a native of Switzerland, is director of The Sanford Project, an effort to find the cure for type 1 diabetes.

The scientific principal he explained to the gathering was one from psychology: The law of constant change. "We cannot and will not stay the same, so it's probably best to embrace change," Burn says.

He listed four points to do that:

- Fundamentals. "They're essential in athletics as well as research and science."
 - Goals. "Set a goal, formulate the plan, implement and execute the plan, and then succeed or fail. The process is what teaches you to move forward in life or in research."
 - Team. "It's about your objective, not about you. You need a team to support you and it makes it easier when you fail."
 - Balance. "With all the change in your life, you need some balance in your life."
- He suggested that come from family and friends.

"The most effective approach is to jump into life and appreciate the flow and movement that is inevitable,"

Diabetes project researches clinical stage

Clinical trials in The Sanford Project, an effort to find a cure for type 1 diabetes, are under way.

Paul Burn, director of the Sioux Falls-based and professor of pediatrics at the Sanford School of Medicine, gave Pharmacy students and faculty a research update at the Keo Glidden Smith Fall Convocation October 25.

Burn didn't mention the diabetes projects in his keynote speech, but he did take questions on diabetes research.

In type 1 diabetes, the immune system, through an autoimmune attack, destroys the insulin-producing beta cells in the pancreas. The result is high blood glucose levels, Burn says.

"The objective of the Sanford Project is to find a cure for type 1 diabetes. Various approaches are being explored in mice and men to accomplish this goal. One approach is to stimulate beta-cell regeneration and modulate the autoimmune attack on beta cells," Burn says.

That research began with mice years ago and now has advanced to the human setting, Burn says.

The exponential increase in type II diabetes in the past generation can be clearly attributed to food choices and exercise, but researchers have been unable to explain why type I diabetes has been increasing at 3 to 4 percent per year, Burn says.

Dave Graves



Compounding catapults Kraemer to top University honor

Compounding—in pharmacy it refers to the combining of materials to create a drug. In finance, compounding refers to paying interest on the principal and the accrued interest. In life, compounding refers to the cumulative effect of decisions made.

Pharmaceutically, Cheri (Langerock) Kraemer '85 has been compounding since her days at State. Experientially, decisions Kraemer began making as an eighth-grader set the stage for where she is now.

Today, Kraemer is owner of three pharmacies in the Sioux Falls area, an award-winning member and former president of the South Dakota Pharmacist's Association, and one of the 2010 Distinguished Alums for South Dakota State University.

It is the latest in a series of awards the 1980 Sioux Falls Washington graduate has earned this decade.

Kraemer acknowledged that in a late December interview, adding "and I don't really understand that. I'm just a working person."

Direction found at a young age

Dean Dennis Hedge, who has known Kraemer for eighteen years, says he has a pretty good idea. "Through her work at Pharmacy Specialties, Cheri works closely with area physicians to manage a patient's disease state and provide compounded medications specifically designed for unique patient needs.

"It is not a stretch to say that without this service provided by Cheri, patient needs in this area would go unmet."

Pharmacy Specialties is one of only two compounding pharmacies in the state and the only one in Sioux Falls. Kraemer didn't have plans to become a compounding entrepreneur when she was an eighth-grader, but she did know she wanted to be a pharmacist.

"I was in a class where we had to research different occupations. I knew I wanted to do something medical, and I didn't want to be around blood," she explains. "When I became a senior in high school, I had it all planned out to go to South Dakota State, get a degree and practice in South Dakota."

And that's just how it has developed.

Groomed by Pfeifle

Upon graduation, she went to work for Allen Pfeifle at Un-O-Med and Clinic Pharmacies in Sioux Falls. From 1988 to 1996 Kraemer was pharmacist in charge at Scotts Pharmacy, another Pfeifle operation in Sioux Falls, and then spent two years back at Clinic Pharmacies before purchasing the business in November 1998.

She opened the doors to Pharmacy Specialties in October 2001 after a year of planning.

That business now has grown to the point where it employs five lab techs and four pharmacists, and is in the process of being accredited.

"Chains really don't have time to compound. We'll do compounding for them. They'll either send patients to us or we'll make compounds for the chain," Kraemer says. Regulations and chemical

expiration dates also discourage many operations from being a compounder.

Finding niches

Pharmacy Specialties is located right next to Clinic Pharmacies, and her other business is in her hometown of Parker.

While Clinic Pharmacies and Parker Pharmacies are traditional retail drug stores, they have become an anomaly in today's pharmacy field because they are independent businesses in an industry dominated by chain stores.

"If you have walk in with a prescription card, you're going to pay the same co-pay no matter where you go. So why not take advantage of free delivery or go where people know your name? We bend over backwards for our customers," Kraemer says.

That entrepreneurial limberness also has been reflected in her community service. She served on the Parker Development Corporation Board, directed vacation Bible school, sang in her church choir, and coached her children's state champion softball teams.

Because of that spirit in business and personal life, she received the Innovative Pharmacist and Hustead Awards (pharmacist of the year) from the South Dakota Pharmacists Association as well as the SDSU Alumni Association's Distinguished Alumni honor.

It's the principal of compounding at work. The fruit of wise and selfless deci-

CHERI KRAEMER

Residence: Parker

Education: Sioux Falls Washington, 1980; SDSU College of Pharmacy, 1985

Occupation: Owner of Clinic Pharmacies and Pharmacy Specialties, both in Sioux Falls, and Parker Pharmacy

Family: Husband, Larry; son, Lucas Paul; daughter, Kiera Anne

Awards: SDSU Distinguished Alumni (Service to South Dakota), 2010; Pharmacy Leadership Award from the National Community Pharmacists Association, 2001; Innovative Pharmacist from the South Dakota Pharmacists Association, 2002; Hustead Award as South Dakota Pharmacist of the Year, 2006



Left: Steve Aamot '92 will be one of the hosts when Dakota Hotspots Hunting Lodge hosts a special spring pheasant hunt as a fund-raiser for the College of Pharmacy. Aamot and his hunting dogs show off some of the game that can be found at the lodge. **Right:** Dakota Hotspots Hunting Lodge near Kennebec will be the site of a fund-raiser for the College of Pharmacy. One of the hosts will be Steve Aamot '92 shown here with his wife Robbie '93 and their dogs Nelli, Tomaa, and Tikka.

Hunt will help College bag more scholarships

College of Pharmacy alumni and their friends will get the chance to have fun and provide funding for scholarships by taking part in a special spring pheasant hunt at Dakota Hotspots Hunting Lodge near Kennebec.

The hunt, a new event for the College, will take place March 18 through March 20 at the lodge in Lyman County in central South Dakota where Steve Aamot '92 is one of the owners.

According to Aamot, the event will serve two purposes: hunting and networking.

"When you're there, you really get to meet people," Aamot says. "It's kind of fun just to watch the dynamics of the people and the camaraderie of the hunt."

Hunters can arrive during the afternoon and evening of Friday, March 18. Aamot plans an evening social with some hunters likely to take advantage of the lodge's sporting clays course. He notes that the lodge has all the amenities—hot tub, pool table, televisions, and a lounge.

In the morning, after a hearty breakfast, hunters and their guides will stalk the wily ringneck on the hundreds of acres cultivated just for wildlife at the preserve.

The first shots, however, will be taken at sporting clays.

"No one's shot much since fall," Aamot says, and the clays can help a hunter sharpen his shooting eye before taking the field.

Aamot explains that the land at the preserve, where the hunting season is longer than the regular pheasant season, is farmed with wildlife in mind. He estimates that thousands of trees have been planted on the property since the lodge opened

in 1995 and more than 100 acres of food plots help keep pheasants, deer, grouse, prairie chickens, and coyotes plentiful.

Each group of hunters will have a guide and bigger groups will have two. According to Aamot, the bigger the group, the better the chance of hunting success.

"It's big country with small areas of hotspots," Aamot says, explaining that bigger groups are likely to cover more territory and flush more pheasants.

A dinner with Dean Dennis Hedge is planned for Saturday evening with another pheasant hunt scheduled for Sunday morning.

"It's a casual way to meet with the dean to find out about the College and raise some money for scholarships to benefit future students," according to Stacey Kutil, SDSU Foundation development director for the College of Pharmacy.

The cost of the three-day package is \$1,000, a part of which is tax deductible.

Kutil says that he hopes pharmacy alumni will bring their friends as the event is open to everyone. He says it's a chance for alumni who have moved away to enjoy a springtime trip to South Dakota.

"We are expecting pharmacists from different parts of the United States to come to the hunt," Kutil says.

For more information about the hunt or to make reservations, call Aamot at 605-229-4695 or Kutil at 605-366-3618 or e-mail Kutil at Stacey.Kutil@sdsufoundation.org. Find out more about the lodge at www.dakotahotspots.com.

Dana Hess

Department of Pharmaceutical Sciences



Chandradhar Dwivedi

The Department of Pharmaceutical Sciences has continued to place a diligent emphasis on high quality instructions (both professional and graduate courses). All P1 and P2 courses in the new curriculum were adjusted per feedback from students and instructors, and are progressing well.

Jolene Landmark was recognized as employee of the month in May 2010 by the SDSU Career Service Advisory Council for her services in the department. President David L. Chicoine presented a plaque and check to her.

Grad student news

Xiaoying Zhang, research associate in the department, resigned in April 2010 to accept a position in industry in China. Samba Sivudu also resigned as research associate to accept an industrial position in India. Completing requirements for a Ph.D. in pharmaceutical sciences were Vamsi Venuganti from Omathanu Perumal's laboratory, Yueshan Hu from Gareth Davies' laboratory, and Wei Chen from Xiangming Guan's laboratory.

Vamsi has accepted a faculty position in a college of pharmacy in India, and Yueshan and Wei have accepted postdoctoral positions at Avera Institute of Human Behavioral Genetics in Sioux Falls and Ohio State University, respectively.

Two new doctoral students joined the department in fall 2010. Joining the department as research associates were S. Sreevidya, Pawel Szymanski, and Yinghong Li.

Summer research

Fifteen professional, undergraduate, and high school students, including two French exchange students, worked in the research laboratories of faculty members in summer 2010. The student chapter of the American

Association of Pharmaceutical Scientists in the department organized the Third Annual Life Sciences Graduate Student Symposium in August 2010.

Faculty news

Hemachand Tummala received \$193,902 from the South Dakota Board of Regents as an Individual Seed Grant and was featured in the Sioux Falls Argus Leader. Omathanu Perumal received funding of \$105,153 from the Department of Defense. Shafiqur Rahman was granted tenure effective fall 2010.

The vacant faculty position is filled by Hongwei Zhang, who joined the department September 22, 2010.

I am honored to be invited to serve on the 2010-2011 Robert K. Chalmers Distinguished Pharmacy Educator Award Committee by American Association of Colleges of Pharmacy. I am also honored to be on ballot for the position of the secretary of Biological Section of the American Association of Colleges of Pharmacy.

At home in Avera

The department and faculty offices moved to Avera Health Science Building in early July 2010. We are settling into the new location. Remodeling of research laboratories is expected by December 2010. We are eagerly looking forward to moving into remodeled laboratories.

I take this opportunity to express my deep appreciation to Dean Dennis Hedge; James Clem, head of the Department of Pharmacy Practice; all faculty members in the department; and Jolene Landmark and Rita Schulz for their diligence and support for the smooth functioning of the department.

CHANDRADHAR DWIVEDI

Distinguished professor and department head

Department of Pharmacy Practice

It was a very busy semester for the faculty and staff in the Department of Pharmacy Practice during this past fall.

We admitted our first class size of eighty and continue to transition into our space in the new building. The pharmacy practice lab continues to develop as we begin using some of the new technology in the lab and counseling rooms.

Associate Professor Becky Baer has had a leading role in getting much of this done and I appreciate her time and effort in doing this. We will continue to see the practice lab evolve into a lab that will provide our students with outstanding learning experiences.

Faculty resignations

Recently, we did have two faculty resignations.

Professor Tom Johnson resigned in December to take the hospital pharmacy director position at Avera McKennan Hospital. He has been with the College since 1998 and has made considerable contributions in many areas to the University, the College, and our students. We will miss Tom and wish him the best of luck as he transitions into his new position.

Also in December, Assistant Professor Karly Hegge resigned to take an outpatient anticoagulation coordinator position with Sanford Health. Karly joined the College in 2008. We appreciate the contributions that Karly has made to the College during her time here and wish her the best in her new position. We are hopeful we will be able to replace both of these positions as soon as possible.

Grant funding

Department faculty continues to be very successful in scholarship efforts—giving presentations and presenting posters of scholarly activities at local, state, and national meetings.

The faculty has also been busy with the publication of numerous journal articles and developing a textbook. The faculty continues to be successful in getting grant funding at the University and national levels. In addition, a second year of grant funding from the Centers for Disease Control for the interdisciplinary diabetes project has been awarded.

I am very proud of the faculty and staff in the Department of Pharmacy Practice for all of their hard work and dedication to the University, the College, and most importantly, our students. Our faculty and staff do incredible things on a daily basis to help our students be successful not only in the classroom, but in their careers as well. Their commitment to the students is one of the main reasons our students are so successful.

In closing, I would like to thank all of our preceptors. The contributions you have made to our program and students are greatly appreciated. We truly value the impact you have on the College and the students in our program.

JAMES R. CLEM, PHARM.D.
Professor and department head



James R. Clem

College welcomes Zhang, Kurban

In 2010, the College welcomed two new members into the fold—a scientist lured by the promise of independent research and a retired Air Force man whose combined knowledge of medicine and computers proved the perfect partnership.



Hongwei Zhang

A native of Tangshan, China, Hongwei (Hong-way) Zhang (pronounced like the French John) arrived in Brookings during a heavy rainstorm September 22 to begin his position as assistant professor of pharmaceutical sciences.

Zhang first came to America four years ago to continue the research he began in 2001, when he earned his bachelor's degree from Sichuan University in China. His supervisors saw a bright, self-motivated young man keenly interested in researching the use of gene therapy in treating lung cancer. Of the sixty students in his class, he was one of five allowed to skip Sichuan's master's program and immediately begin work toward his doctorate, with the full amount of the scholarship funded by the university.

He earned it in 2006 and came to the United States, where he served as a postdoctoral research associate in Omaha and in Worcester: for two and a half years at the College of Pharmacy at the University of Nebraska Medical Center

and for a year and a half at the Gene Therapy Center at the University of Massachusetts Medical School.

At SDSU, Zhang will teach and continue his research on gene therapy and RNAi therapeutics.

"A number of diseases, including cancer, central nervous system-related diseases, and cardiovascular diseases, are closely associated with a missing gene, the mutation, or over-expression of a certain gene," Zhang explains.

"Treatment of these diseases on the gene level is a very promising approach.

"Currently, the research in my group is focused on the development of novel RNA interfering (RNAi) therapeutics and gene therapy to treat these diseases.

We are using nano-sized targeted delivery systems, such as lipid-based, polymer-based, and recombinant viral vectors, to deliver therapeutic genes and RNAi's to pathological sites.

"I hope students will be interested in my research. Students are pretty self-motivated, eager to learn new things. Several have contacted me. I like working with the students. I was trained mostly in pharmacy school, and I like to work in the environment of a pharmacy school."

Zhang, a single man who enjoys all sports and joins colleagues in The Barn each week to play basketball, admits to very little time for hobbies, for work consumes most of his time.

"For me, the most important thing is to have the environment to do the research," Zhang says. "I have plenty of opportunities to interact with great scientists in my field. To discuss with them is really helpful in improving my research, continuing to expand my expertise."

Although those scientific connections are important, it's crucial to Zhang that his research remain independent.

"I want to have my own field," he explains. "I use the knowledge and experience gained in their lives, but I need to travel on my own way. I cannot just follow their steps or I would always follow their steps."



Steve Kurban

Self-dubbed "the Maytag repairman for the College, computer wise," Steve Kurban joined SDSU August 30 as senior computer support specialist, a new position in which he also serves the College of General Studies.

Born and raised in San Diego, Kurban graduated from high school in 1977 and joined the Air Force, serving twenty-one years as a medic in aerospace medicine. After basic training, Kurban served his first assignment at a hospital in Shreveport, Louisiana.

He went on to serve in Okinawa, Japan, in Victorville, California, where he was part of a helicopter emergency rescue team, in the upper Michigan peninsula, and at Keflavik Naval Air Station in Iceland.

By the time he retired from the military in January 1998, the Kurbans had decided to settle in Brookings.

"My wife is one of ten kids and a triplet; one of her sisters was stationed here at SDSU with Air Force ROTC," Kurban says. "So we said, let's live there."

He took a job with Perry Electric, working for a year as a service technician. Then he became information technology technician at the Brookings medical clinic, working there for just under ten years.

After a year off, he did a short stint as support desk tech at the Brookings Health System. Then he interviewed for and got the job at State.

Cindy Rickeman

From timid to intrepid

Lyons installed as chair of national committee

Had the timid Kayley Lyons at Mankato West High School not disappeared at a personal development weekend three years ago, she would not have spent three weeks last summer working in a Sri Lanka hospital, where “there were two patients to a bed, two reference books to work off, and two minutes to see each patient.”

“They say there’s six degrees of separation, but in pharmacy, it is two. It’s a small world.”

— Kayley Lyons, P3 student

She wouldn’t have spent the next two weeks backpacking through India with fellow classmate Elizabeth Batchelder.

When a C in anatomy kept her out of the pharmacy program for a year, she wouldn’t have studied abroad in Manchester, England, then seen Greece, Italy,

Spain, France, and Ireland—“incredible experiences that made me more independent,” Lyons avows. “I realized how big this world is and that SDSU is just a very small part of that. It wasn’t as daunting anymore. I felt I could really make a difference.”

And she wouldn’t have been in Austin, Texas, in mid-October, officially swearing in as chair-elect for the student committee of the American College of Clinical Pharmacists.

No matter that State has no chapter. It’s good to be chair, all the same.

Lyons, a P3, recently completed her term as president of the Academy of Students of Pharmacy, a long-established chapter on campus. Now she aims to use her new committee position to funnel as many benefits to SDSU as possible, mainly in the way of knowledge.

“We need to give pharmacy students as many resources as possible to get into a residency program,” Lyons says.



Top: Kayley Lyons, left, and fellow classmate Elizabeth Batchelder pose in a tea field in Darjeeling, India. **Above:** Lyons is pictured with four nurses in Nagoda General Hospital in Sri Lanka. **Below:** Lyons in front of the Taj Mahal.



“Pharmacy students need to study career options earlier so they can prepare to be competitive candidates.”

Until she attended a three-day Landmark personal development seminar with her younger brother Jairek—her “best friend in the world”—she was “the shiest person you’d ever meet,” Lyons says. Now she is a confident young woman with the courage to step outside her comfort zone to pursue life’s adventures, whether it’s studying abroad or blazing new trails at home.

“I believe experience is what makes a person, so I am constantly going after new experiences,” Lyons says. “I feel I could take a road trip across the country and stay with people I have befriended from pharmacy school.”

“They say there’s six degrees of separation, but in pharmacy. It is two. It’s a small world.”

Cindy Rickeman

At 90, Hoch retires again

This time its permanent.

Tyndall pharmacist Bill Hoch has retired before, but went back to work full time at Hoch Drug after his pharmacist son died. That was five years ago. Now, at age 90, the doors of the main street business have been closed for the last time and the prescriptions transferred to Bon Homme Pharmacy at the Tyndall Clinic.

Hoch had hoped to sell the business, but when that didn't happen, he knew he had to make other arrangements. So on October 1, 2010, Hoch turned his father's business over to the Avera-owned clinic and ended sixty-three years as a pharmacist.

He continued to operate Hoch Drug as a general merchandise store until auctioning off inventory and fixtures December 18, 2010.

When Hoch earned his degree from w under Dean Floyd LeBlanc.

Family owned for 96 years

After graduation, Hoch headed back to Hoch Drug, which his father, Joseph, a 1908 graduate, had purchased in 1914. Greg Hoch, the son of Vera and William Hoch, graduated magna cum laude from State in 1970, and returned to the family business.

The pair worked together full time until 1986, when Bill Hoch retired, and reduced his hours at the pharmacy.

Gregory Hoch endured a five-year battle with melanoma, which ultimately manifested itself in a brain tumor. As the illness progressed, Bill Hoch went back to work full time. Greg died January 10, 2005, twenty-eight days short of his 58th birthday.

Hoch says that even in his second round as pharmacist in charge, he enjoyed the work.

"I'm going miss it. I've been in here sixty-three years. I enjoyed the people. We had good business, but it's just when you get ... I've got real bad arthritis in



Bill Hoch

my knees... When you get to be 90, you can't do anything real quick," Hoch says.

He says he feared being called after hours during bad winter weather and not be able to walk through the snow.

The main street building has been sold to the neighboring insurance agency, and Hoch plans to continue living in Tyndall and focus on his stock portfolio.

Generosity benefits SDSU students

Though Hoch Drug was a small business in a small town in the south-east quadrant of the state, the Hoch name became familiar to virtually every pharmacy student at State because of the stock portfolio created by Greg Hoch.

In November 2003, Greg Hoch contributed \$100,000 to create a pair of \$2,000 scholarships for the College. When the estate was settled in April 2006, the College received \$592,000 to create a fund of nearly \$700,000 to fund seventeen scholarships annually.

Each scholarship is for \$2,000 with the only stipulation that they go to South Dakotans entering Pharmacy College.

SD Pharmacists honor Wurtz, Karel; Hinricher named president

Kevin Wurtz '75 and Gary Karel '73 were honored at the 124th annual convention of the South Dakota Pharmacists Association at Cedar Shore Hotel in Oacoma in June while Earl Hinricher '80 was selected as president of its board of directors.

Wurtz received the Honorary President's Award, which recognizes a career pharmacist how has been president of the association but has participated in district or state events as well as exercising community service. In 1999 he was presented the Bowl of Hygeia, which recognizes an outstanding record of community service.

Wurtz began work at Pioneer Drug in Elk Point after college and purchased the business in 1977.

Karel, chief of pharmacy at Sanford Health of Sioux Falls, received the Hustead Award, which honors dedication

and service to the pharmacy profession. The award stresses both the individual's professional career and the impact made on the profession as well as community service and personal activities.

He served as president of the South Dakota Society of Health System Pharmacists in 1981 and was named Outstanding Hospital Pharmacist in 1984.

Hinricher, who lives on a farm north of Forestburg, is a pharmacist at Huron Regional Medical Center. Hinchler graduated from Dell Rapids St. Mary High School. After college he served a one-year residency at Avera McKennan Hospital and also served in the Army Medical Corps.

He and his wife, Melanie, who also is a pharmacist, have two children, Elliot, an SDSU pharmacy student, and Greta, 15.

Peters becomes first pharmacist on nat'l committee

Pharmaceutical researcher Stacy Peters, an assistant professor, has become the first pharmacist to serve on the national Cystic Fibrosis Protocol Review Committee.

Peters, a 2004 graduate of SDSU, will begin a three-year term in January on the Protocol Review Committee of the Cystic Fibrosis Foundation's Therapeutics Development Network.



Stacy Peters

to best capture results undertaken in the research.

"We hope this will improve the final quality of the data produced by cystic

fibrosis clinical trials," said Peters, who is based at Sanford Children's Specialty Clinic in Sioux Falls.

She began work with the cystic fibrosis center at Sanford during her residency in 2004 and now is a sub-investigator on cystic fibrosis trials, evaluating protocols, selecting patients and attending Therapeutic Development Network and investigator meetings.

Through those meetings, the director of the South Dakota Cystic Fibrosis Center noticed her attention to details in reviewing protocols and suggested Peters for the committee. However, the committees were historically comprised of pulmonologists, biostatisticians and research nurses, but no pharmacists.

That didn't deter James Wallace, the center director, whose nomination of Peters was approved by the president and vice president of the forty-member committee.

Committee reviews protocols

The South Dakota center is among seventy-seven centers nationwide that have been accepted into the Cystic Fibrosis Foundation's Therapeutic Network. The committee is charged with reviewing new protocols from pharmaceutical-sponsored or investigator-initiated studies and providing feedback to the sponsor to help improve the quality of the protocol in terms of design, outcome endpoints, statistical method and feasibility.

"More importantly, we hope this will improve the final quality of the data produced by cystic fibrosis clinical trials," Peters said.

The trials could be designed to look at a new medication, a specific genetic mutation or a certain type of bacteria, she explained. The review committee makes sure the proposals are optimally structured. As a pharmacist, one of Peters' responsibilities could be to ensure that the protocol includes appropriate monitoring of medications and potential side effects.

The committee also works with the U.S. Food and Drug Administration

to guide the studies of new pharmaceuticals.

Only accredited center in region

Peters became an assistant professor at SDSU in ambulatory care in 2007 while continuing to work with cystic fibrosis research at Sanford. That was the same year that the South Dakota Cystic Fibrosis Center received the Cystic Fibrosis Research Facilitations Award, which helped provide support for infrastructure for a sustainable research program.

In 2008 the center started the application process to become a Therapeutics Development Network Center. By 2009 the center received notification it had met criteria and had made enough progress in research to become a Development Network Center.

The South Dakota Cystic Fibrosis Center is one of 115 accredited centers in the U.S. The nearest accredited Cystic Fibrosis Centers are in Omaha, Minneapolis and Denver. The South Dakota center serves 110 children and adults in

South Dakota, southwest Minnesota, northwest Iowa and northeast Nebraska.



Teresa Seefeldt

Seefeldt first SDSU selection for leadership program

Teresa Seefeldt, a faculty member since 2005, is gaining a new perspective on academic leadership through a program with the American Association of Colleges of Pharmacy.

Seefeldt, a 2004 SDSU Pharm.D. graduate, is the first SDSU faculty member to participate in the seven-year-old program.

Thirty faculty members, including some department heads and assistant and associate deans, form the 2010-11 cohort, which gathered August 2-6 and November 6-10 in Washington, D.C. The sessions provide in-depth leadership development, team building, and exploration of legislative and public policy issues.

The fellows also are divided into groups to work on a collaborative project, Seefeldt explains. Her group is looking at the status of curriculum mapping in pharmacy schools.

At the sessions, a group of five deans direct the fellows. Back in Brookings, Seefeldt has been mentored by Dean Dennis Hedge on a variety of issues related to the College. Seefeldt notes that her nomination to be a fellow came from Hedge, who became dean in 2008.

"The Academic Leadership Fellows Program is designed to develop promising pharmacy faculty for roles as future leaders in higher education. Dr. Seefeldt is certainly a promising faculty member and possesses a skill set to emerge as a leader within academic pharmacy," Hedge says.

Seefeldt, who in 2007 became the College's first graduate of its doctoral program in pharmaceutical sciences, adds that the fellows program has been "a really good experience; just being able to interact with other faculty members who are looking at leadership in academic pharmacy has been great."

The program concludes with sessions in Savannah, Georgia, February 25-March 2, and in San Antonio, Texas, July 9-13.

Hedge adds, "Upon completion of the program, Teresa will be better prepared to lead projects and committees on our campus. I am very pleased that Teresa is our first-ever AACP Academic Leadership Fellow.

"Academic pharmacy needs more young women with a pharmaceutical sciences background in leadership roles."



Kappa Psi chapter earns recognition at national level

Gamma Kappa, the SDSU chapter of the Kappa Psi pharmacy fraternity, proved to be one of the top chapters in the nation.

In fall 2010, the chapter won awards for academic excellence and overall achievement as well as having two members win national scholarships.

Spot in top ten remains intact

The chapter tied for ninth among the eighty collegiate chapters according to a judging of annual reports. "We've never been number one, but we've consistently been in the top ten for a number of years," chapter coadvisor Gary Van Riper says.

Chapters were judged on an annual report covering July 1, 2009, to July 1, 2010.

"Each chapter completes an annual report based on chapter activities,

community service, public activities, and organizations that members belong to and are an officer in," Van Riper says.

Charles Elroy III, chapter president in 2009-10, directed compilation of the report.

Impressive report cards

For the fourth time, the Gamma Kappa chapter of Kappa Psi had the top grade point average among Kappa Psi chapters nationwide.

Calculating the winner requires a high grade point average in its own right. Chapter coadvisor Gary Van Riper says the complicated formula considers only P2 and P3 students from fall semester 2009 and spring semester 2010 and adds bonus points for class standing.

All qualifying SDSU students had at least a 3.0 GPA.

The chapter also won the award in 2009, 1998, and 1997.



Members of the Academy of Student Pharmacists man a blood glucose screening table on Main Street of The Union October 14, 2010.

Michelle Anderson, far left, practices a blood draw on fellow student Hillary Leonard. Watching are Stephanie Schulte, left, and Katy Carlson. All are P2 students with the chapter's Operation Diabetes committee, which does one to two screenings per month at The Union, the Wellness Center or Wal-Mart.

VanMetre, Lyons awarded

Two of the fourteen national scholarships given by Kappa Psi Foundation in August 2010 went to SDSU students. Tyler VanMetre and Kayley Lyons each received \$1,500 scholarships.

The awards are based on academic achievement, contributions to the chapter, participation in college of pharmacy organizations, and letters of support from the chapter advisor and college dean.

The fourteen scholarships had a total value of \$15,000.

Pharmacy exam excellence

For the twelfth time in thirteen years, the entire College of Pharmacy graduating class passed the North American Pharmacist Licensure Examination, administered by the National Association of Boards of Pharmacy.

The sixty-nine first-time candidates from the Class of 2010 compiled an average score of 112, well above the national average of 103. Similarly, the national pass rate for first-time candidates this year was 95.3 percent.

Gamma Kappa going green

To save trees (and money), the SDSU chapter of Kappa Psi would like to send

alumni brothers newsletters and other information electronically. Brothers are asked to send an e-mail to kygam-makappa@yahoo.com so the chapter can update its database.

Getting drugs out of the cabinet

Three Kappa Psi brothers and two pledges spent a Saturday at the police station regarding a drug matter.

But don't be alarmed, Mom. Members Terry Hoffman, Chuck Elroy, and Kortney Slinger, and pledges Robb Evans and Nick Goodhope joined the Brookings Police Department in participating in National Prescription Take-Back Day September 25.

The United States Drug Enforcement Agency effort involved citizens bringing in outdated or discontinued drugs for secure shipping to an incineration facility in New Jersey. Twenty-one community members responded.

Regents honor Rho Chi

Rho Chi Pharmacy Honors Society received the Award for Academic Excellence by the South Dakota Board of Regents when it presented campus awards at its June 25, 2010, meeting.

In addition to attaining academic excellence, members offer free tutoring services and organizes an annual fall

2010-2011 Student Calendar of Events

JAN. 23-27	Phonathon 2011
FEB. 1-2	Legislative Days
MAR. 25-28	American Pharmaceutical Association/Academy of Student Pharmacists Annual Meeting – Seattle, WA
APRIL 1-2	South Dakota Society of Health-System Pharmacists Annual Meeting – Sioux Falls, SD
APRIL 13	Spring Convocation – SDSU Student Union
APRIL 13	College Achievement and Recognition Program – SDSU Student Union
MAY 6	Hooding Ceremony – SDSU Performing Arts Center
MAY 7	Graduation
JUNE 3-5	South Dakota Pharmacists Association Annual Convention – Sioux Falls, SD

Graduate student of the year settles in at Avera lab

Associate Professor Gareth Davies doesn't mince words when he talks about Yueshan Hu, the graduate student of the year in the College of Pharmacy.

"He's one of the best graduate students I've ever encountered," Davies says. "He's hard-working, extremely diligent, and a really nice guy."

That kind of praise is likely to elicit a shy smile from Hu. The soft-spoken scientist would rather talk about his work than his award.

And Hu is involved in plenty of projects as a postdoctoral fellow and junior research scientist at the Avera Institute of Human Behavioral Genetics in Sioux Falls where he works in Davies' laboratory.

One of Hu's projects continues the research that led to his doctorate in pharmaceutical science in 2010.

Working with Davies, with whom he has filed for a patent and created a start-up company, Hu has started clinical trials on a compound designed to prevent weight gain.

The research is geared toward schizophrenia patients whose antipsychotic medications often have phenomenal weight gain as one of their side effects. Worries about weight gain cause some

patients to stop taking their medication.

Hu explains that the research seeks a change in genetic expression to keep pre-fat cells from becoming fat cells.

Hu also is contributing to a project that has collected the DNA of patients with psychological disorders that may have as many as twenty medications prescribed.

According to Hu, studying the patients' DNA will help determine genetic markers that can tell which medications are better suited for each patient.

"We can personalize their medicine," Hu says.

A third project with Hu's participation is studying the genetic variances in ovarian cancer patients to determine tendencies toward the disease and the best medications for treatment.

Hu's interest in medications started in

his native China where he was an assis

THE YUESHAN HU FILE

Position

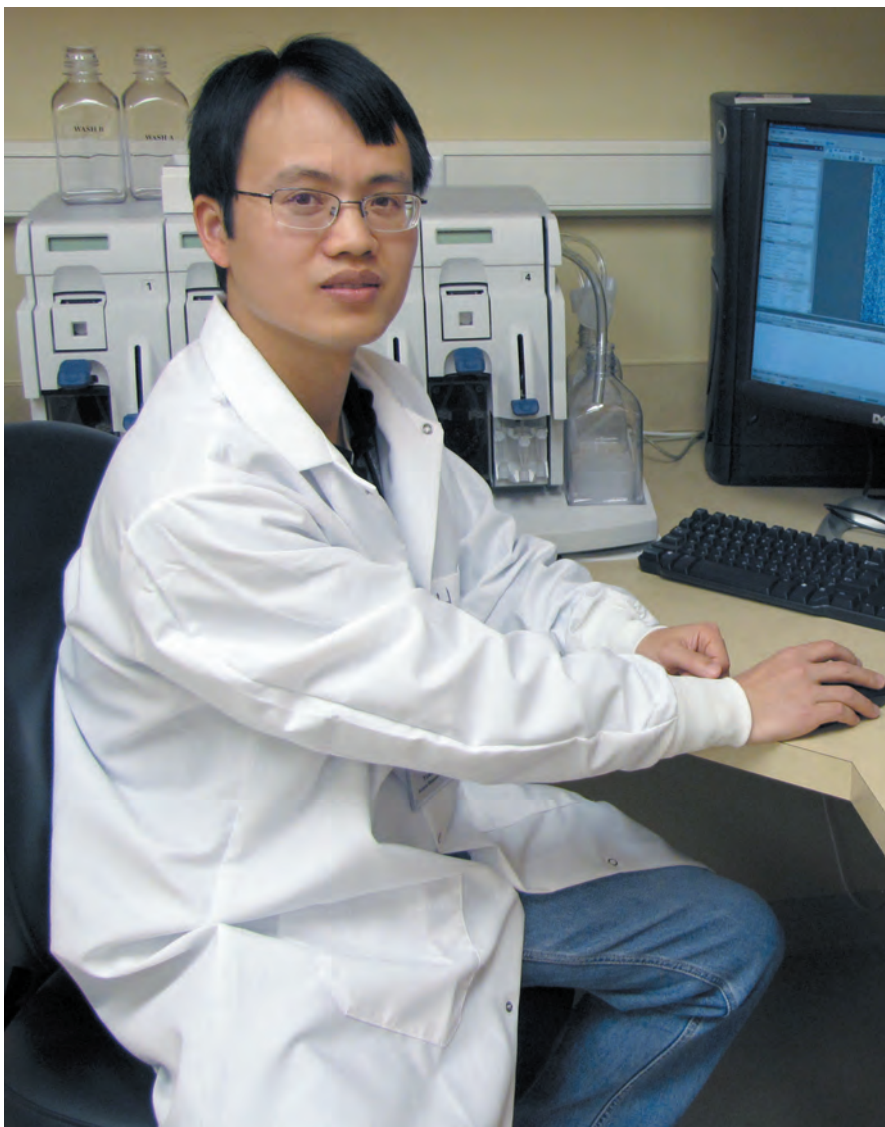
Postdoctoral fellow and junior research scientist, Avera Institute of Human Behavioral Genetics

Award

College of Pharmacy Graduate Student of the Year, 2010

Degrees

Doctor of philosophy in pharmaceutical sciences, SDSU, 2010; Master of Medicine, Guangzhou University of Traditional Chinese Medicine, Guangzhou, China; Bachelor of Medicine, Hunan College of Traditional Chinese Medicine, Changsha, China



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 who make a significant impact on the College's future. Member names will be listed in the SDSU Honor Roll and the College newsletters, they will also receive invitations to special College and University functions, updates from the College dean, and an SDSU Dean's Club car decal.

DEAN'S CLUB

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Dick F. Wojcik
Women's International Pharmacy, Inc.
Bay M. Wu
Keith A. Wurtz
Kevin G. Wurtz
Yankton District Pharmacy Association
Roger A. Zobel

SCHOLARSHIPS

Presented to P1, P2, P3 and P4 students at the September 18, 2010, scholarship luncheon.

Steven M. Aamot & Robbie D. Aamot Scholarship in Pharmacy:
Brandon Johnson

Aberdeen District (SDPhA) Gerritt Heida Memorial:
Tonya Gross

Alcester Drug Scholarship in Support of the Jackrabbit Guarantee:
Jeremy Jansen

Oliver G. & Nelle K. Anderson Scholarship:
Amber Schmidt

James A. & Nancy E. Armbruster Scholarship in Support of the Jackrabbit Guarantee: Jessica Brandel

Dr. Harold S. Bailey & Barbara A. Bailey Scholarship in Support of the Jackrabbit Guarantee:
Kaitlyn Jude

Jack M. Bailey Scholarship: Susan Puetz

Tom & Linda Bartholomew Scholarship in the College Of Pharmacy at South Dakota State University:
Courtney Larson

Jean Bibby Memorial Pharmacy Scholarship:
Chelsea Schmidt

Joye Ann Billow Kappa Epsilon Leadership Award:
Kimberly Thuringer

Darrel & Peggy Bjornson Scholarship in Pharmacy:
Terry Hoffmann

Black Hills District (SDPhA) Scholarship:
Heather Bunge

Class of 1957 Scholarship in Pharmacy:
Elizabeth Finsel

College of Pharmacy Achievement Awards:
Ashley Barta, Kayla Borgstrom, Ariele Martin, John Weitgenant

College of Pharmacy Phonathon Scholarships:
Abby Brown, Heather Bunge, Sarah Clague, Charles Elroy III, Kayla Hughes, Carrie Jansen, Andrew Konechne, Amanda Ludwig, Andrea New, Laura Nielsen, Susan Puetz, Victoria Ruppert,

Rhianna Tuchscherer,
Tyler Van Metre

Crazy Horse Memorial Scholarship in Honor of Ted & Bill Husted:
Erica Fleury

Lloyd Daniels & Helen Daniels Bader Scholarships in Pharmacy:
Brianna Bestge, Katherine Kann

Marion & Robert DeKraay Scholarship: Elizabeth Willis

Mary M. Pullman Dodge Scholarship in Support of the Jackrabbit Guarantee:
Meagan Sergeant

Richard J. Duffner Memorial Scholarship:
Wesleigh Jastorff

Pundit Abhaya Narayan Dwivedi Scholarship in Pharmacology: Tyler Van Metre

E. Keith Edgerton Memorial Scholarship in Support of the Jackrabbit Guarantee: Tiffany Messenbrink

Clark T. & Alice H. Eidsmoe Scholarships:
Sarah Clague, Angela Le, Sarah Luettel, Jessica Nelson

Marvin E. Foss Award:
Anna Cutler

Lawrence & Winnibert Bradshaw France Memorial Scholarship:
Ellie Hendricks

Milton & Elaine Freier Scholarship: Mallory Muntefering

Gross Scholarship in Pharmacy: Katie Hagen

Sandra Grover Memorial Scholarship: Tonya Gross

Daniel J. Hansen & Jessica L. Hansen Scholarship in Pharmacy:
Heidi Oakland

Hietbrink Endowed Scholarship: Andrea Roche

Lloyd D. Highley Scholarship: Chelsea Schmidt

Nancy & Seth Hildebrand Scholarship in Support of the Jackrabbit Guarantee:
Jamison Niewoehner

Hoch Drug Scholarship in Pharmacy: Megan Bechen, Caitlin Bills, Kylee Bitner, Kristina Delzer, Stephen Fagerland, Amanda Johnson, Stephanie Jungemann, Elizabeth Koehler, Kimberly Livingston, Anna Retterath, Craig Spangler, Jessica Van Overschelde, Kimberly Wurtz

Dorothy & Ronald Huether Scholarship in Support of the Jackrabbit Guarantee: Lee Cordell

Ted & Bill Husted Memorial: Michelle Eykamp

Kathleen Ingalls Scholarship in Support of the Jackrabbit Guarantee:
Justin Cunningham

Bruce R. Johnson Scholarship in Support of the Jackrabbit Guarantee:
Dana Merkel

Julie Hanlon-Johnson & Matthew Johnson Scholarship in Support of the Jackrabbit Guarantee:
Stephanie Schulte

Randy L. Jones Scholarship in Support of the Jackrabbit Guarantee:
Kortney Slinger

Galen D. Jordre & Ann M. Jordre Scholarship in Support of the Jackrabbit Guarantee: Kristin Tate

The Juhnke Pharmacy Scholarship: Jeremy Jansen

Kmart Scholarship for Excellence in Community Pharmacy: Beau VanOverschelde

Duwayne & Joan Knauf Pharmacy Scholarship:
Mallory Elits, Lacey Gallagher, Hillary Leonard

Allan & Jean Knudson Scholarship in Support of the Jackrabbit Guarantee:
Eric Mathiowetz

Cheri A. Kraemer Scholarship in Support of the Jackrabbit Guarantee:
Sarah Knippling

Kubly Excel Through Involvement Scholarship:
Angela Le

Susan Lahr & Gordon Niva Scholarship in Pharmacy: Anna Jastorff, Hillary Siebels
Robert & Donna Landes Memorial Scholarship in Pharmacy: Amanda Jensen

Terry Larvie Scholarship:
Erica Fleury

J. Bruce & Kandi Laughrey Scholarship in Pharmacy:
Hillary Gerster, Ryan Robinson

Floyd Leblanc Scholarship:
Mallory Muntefering

Harry M. Lee Scholarship:
Amber Schmidt

Larry Leighton Memorial Scholarship: Rachel LeBrun

Donald M. Lien Scholarship: Matthew Spinar

Edgar & Gladys Light Scholarship in Pharmacy:
Amber Schmidt

Brian G. & Christine A. Lounsbery Scholarship:
Joseph Rose

Barry & Sharon Markl Scholarship in Support of the Jackrabbit Guarantee:
Laura Johnson

Marion John McCormack Scholarship: Makayla Lorusung

Medicine Shoppe (SDSU Pharmacy Alumni) Scholarship: Kelsey Kremmin, Krista Kutil

Barry Duane Mellegard Memorial Scholarship in Pharmacy at SDSU:
Tonya Gross

Glenn C. Mueller Memorial Scholarship: Mallory Muntefering

National Association of Chain Drug Stores Scholarship: Spenser Wipf

Carney Nelson & Margaret (Maggie) Nelson Memorial Scholarship: Andrew Konechne

Robert W. & Ardit H. Olson Scholarship:
Elizabeth Finsel

Ozmoria Scholarship in Pharmacy: Courtney Conaster

Alford O. & Dolores J. Peterson Endowed Scholarship: Sarah Hanson, Tarryn Jansen

Vernon E. & Cheryl V. Peterson Scholarship in support of the Jackrabbit Guarantee: Melissa Visker

Allen A. Pfeifle Scholarship in Pharmacy:
Jessica Rudd

Pharmacists Mutual Companies Award:
Beau Vanoverschelde

Pharmacists Mutual Companies Scholarship:
Iman Badawy

Kenneth & Elizabeth Redman Scholarship:
Kristin Brown

William J. Regan:
Joshua Veurink

Craig & Carolyn Schnell in support of the Jackrabbit Guarantee: Rachel Hansen

Jane & Norbert Sebade Scholarship: Margaret Quinn

Sandra K. Seifert-Pederson & Jeffrey A. Pederson Pharmacy Scholarship in support of the Jackrabbit Guarantee: Melissa Houdek

Earl & Daphne Serles Memorial: Andrea New, Jessica Schroeder

Shopko Scholarship:
Kayla Lorge

Dwight & Keo Smith Scholarship: Brittany Wilson

Merlin J. Snyder Scholarship in support of the Jackrabbit Guarantee:
Evan Robb

South Dakota Pharmacists Association Pharmacy Legacy Scholarship:
Kayley Lyons

South Dakota Society of Health-System Pharmacists Scholarship:
Curtis Wong

SDSU Faculty/VA Practice Site Scholarship:
Tyler Van Metre

Gary & Janet Stach Scholarship in support of the Jackrabbit Guarantee:
Alex Vanoverschelde

Don C. Stark Scholarship in support of the Jackrabbit Guarantee:
Eric Grocott, Ashley Valdez
Statz Family Pharmacy Scholarship at SDSU:
Lindsay Neugebauer

Lowell T. Sterler Northwest Iowa Pharmacy Scholarship: Kelsey Postma

Julie C. Stevens, M.D. Scholarship in Pharmacy at SDSU: Stephanie Jones, Corrie Thurmer

Supervalu Pharmacy Scholarship: Britta Hystad

Edward F. Swanson Scholarship in support of the Jackrabbit Guarantee:
Ross Tellinghuisen

Medor A. & Florence M. Thibodeau Memorial Scholarship: Sarah Nagel

Mary & David Tidwell Scholarship in Pharmacy:
Abby Brown, Kayla Hughes

Van Hove Family Scholarship: Amanda Styles

Visions For The Future Scholarship: Kristin Brown

Walmart Pharmacy Scholarship Award:
Walker Darkow, Alanna Grabouski, Kris Kirchner, Sarah Neuhauser, Randi Sandbulte, Jared Sogn

Watertown District (SDPhA) Scholarship:
Katie Hagen

Women's International Pharmacy Award:
Kara Lippert

Yankton District (SDPhA) Scholarship:
Wendy Schulte

Special Scholarship Walgreens Diversity Scholarship: Melissa Olson

Pharmacy plays central role in SDSU's campaign goals

When former Centers for Disease Control Director Julie Gerberding helped dedicate the Avera Health and Science Center in September, she spoke of South Dakota State University's potential to become the "citadel of science."

Those bold aspirations helped produce the \$51-million state-of-the-art facility and the new home to the College of Pharmacy. The university's commitment to research and the health sciences is a centerpiece of It Starts with STATE: A Campaign for South Dakota State University.

Foundation and university leadership announced a public goal of \$200 million for the six-year campaign, which will run through December 31, 2012. When the goal was unveiled October 21, 2010, SDSU had \$137 million in gifts and commitments, already making it the largest campaign in South Dakota history.

The College of Pharmacy's priorities are aligned with the campaign's goals.

- The Avera Health and Science Center is central to the College's management, teaching and research faculty that has produced a 100 percent pass rate on the National Pharmacy Licensure Exam for 13 of the last 14 graduating classes. There are still opportunities for donors to sponsor offices, classrooms, laboratories and work space within the building.
- Endowed faculty positions enable those with research interests to have the time and resources to pursue grants outside of their normal classroom assignments.
- Endowed and annual scholarships will allow SDSU to attract and retain that next generation of pharmacists. The demand-

ing curriculum of the six-year program limits pharmacy students from holding jobs for outside income, making scholarships essential.

- Endowed fellowships enable the College to draw the best and brightest doctoral students, which will, in turn, enhance the university's research capabilities.
- The Funds for Excellence provide perpetual support for student and/faculty excellence by giving the dean the financial resources to act on emerging opportunities. This can range from student engagement in local, state, and national events to faculty development to the purchase of equipment and technology.

To learn how you can make a difference in the College of Pharmacy and support It Starts with STATE, contact Development Director Stacey A. Kutil at (605) 366-3618 or stacey.kutil@sdsufoundation.org.



Stacey Kutil

STACEY A. KUTIL
*College of Pharmacy
 SDSU Foundation director of development*

Your classmates and the College want to know what's been happening with you.

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?

Name _____ Year Graduated _____

Address _____

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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Pharmacy is for the Birds!

(Or in this case, the Birds are for Pharmacy!)

**Join host Steve Aamot for a hunt to remember and
raise funds for future pharmacists
in the Pharm.D. program at SDSU**

**Dakota Hotspots is proud to sponsor a world-class pheasant hunt,
Mar 18-20th, 2011 at the Dakota Hotspots
Hunting Lodge in Kennebec, SD (www.dakotahotspots.com)**

**Friday evening: Social & Sporting Clays
Saturday: Pheasant Hunt & Dinner with the Dean
Sunday: Morning Pheasant Hunt**

Package Cost: \$1000* (Partially Tax-Deductible)

***cost of hunting license not included**

**For more information or to make your reservation,
contact Steve Aamot at 605-229-4695,
or Stacey Kutil at Stacey.Kutil@sdsufoundation.org or 605-366-3618**